



## **Draft Standard MEF 92.1 Draft (R1)**

### **LSO Cantata/Sonata Test Requirements**

**May 2021**

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## 1 List of Contributing Members

The following members of the MEF participated in the development of this document and have requested to be included in this list.

*Editor Note 1: This list will be finalized before Letter Ballot. Any member that comments in at least one CfC is eligible to be included by opting in before the Letter Ballot is initiated. Note it is the MEF member that is listed here (typically a company or organization), not their individual representatives.*

- ABC Networks
- XYZ Communications

## 2 Abstract

This document contains the test requirements for the LSO Cantata/Sonata Interface Reference Point. Functions addressed within this document are Address Validation (defined in MEF 79 [6] and MEF 79.0.2 [8]), Product Offering Qualification (defined in MEF 79 [6] and MEF 79.0.1 [7]), Quote (defined in MEF 80 [9]), Product Inventory (defined in MEF 81 [10] and MEF 81.0.1 [11]), Product Order (defined in MEF 57.1 [4] and MEF 57.2 [5]), Trouble Ticketing (defined in MEF W113 [12], and Appointments (defined in MEF W113 [12]). Service Providers who are implementing LSO Cantata/Sonata APIs want to test and ensure that they are interoperable with one another or with customers and they desire tools that help them develop their LSO Cantata/Sonata APIs more quickly. This document aids in developing test plans for interoperability between two Service Providers or a Service Provider and a Customer. This document does not address certification or testing for certification. The test cases defined within this document may be used as a basis for any test plans developed for certification of Cantata/Sonata APIs.

The Test Requirements contained within this document are intended to provide guidance for testing of inter-operation between Buyers and Sellers and as a basis for the certification test plan developed by the Certification Test Partner.

## 3 Release Notes

This document is undergoing its second Call for Comments Ballot. There may be comments or issues identified during the Call for Comment Ballot that will impact the contents of the document. In addition, there are several sections of the document that will be updated in the next revision of the document. These are shown below.





<b>Section</b>	<b>Known Issue</b>
21.3	Requirement numbers in MEF 57.2 [5] are changing and numbers reflected in this table may not be correct.
22.3	Requirement numbers in MEF 57.2 [5] are changing and numbers reflected in this table may not be correct.
25.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
25.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
26.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
26.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
27.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
27.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
28.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
28.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
29.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
29.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
30.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
30.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
31.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
31.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
32.3	Requirement numbers in MEF W113 [12] are changing, and numbers reflected in this table may not be correct.
32.4	Test Cases for Trouble Ticket will be provided in a future release of this document.
33	Create Appointments is not currently included in MEF W113 [12]. It is expected that this will change as MEF W113 [12] is revised.
34	Appointment sections in MEF W113 [12] are under revision. Once revisions of MEF W113 [12] is complete, this section will be updated.
35	Appointment sections in MEF W113 [12] are under revision. Once revisions of MEF W113 [12] is complete, this section will be updated.

## 4 Terminology and Abbreviations

This section defines the terms used in this document. In many cases, the normative definitions to terms are found in other documents. In these cases, the third column is used to provide the reference that is controlling, in other MEF or external documents.

In addition, terms defined in MEF 55.1 [3], MEF 79 [6], MEF 79.0.1 [7], MEF 79.0.2 [8], MEF 80 [9], MEF 81 [10], MEF 81.0.1 [11], MEF 57.1 [4], MEF 57.2 [5], and MEF W113[12] are included in this document by reference, and are not repeated in the table below.

Term	Definition	Reference

**Table 1 – Terminology and Abbreviations**

*Editor Note 2: At this time, no new terminology or abbreviations have been identified*

## 5 Compliance Levels

The key words "**MUST**", "**MUST NOT**", "**REQUIRED**", "**SHALL**", "**SHALL NOT**", "**SHOULD**", "**SHOULD NOT**", "**RECOMMENDED**", "**NOT RECOMMENDED**", "**MAY**", and "**OPTIONAL**" in this document are to be interpreted as described in BCP 14 (RFC 2119 [1], RFC 8174 [2]) when, and only when, they appear in all capitals, as shown here. All key words must be in bold text.

Items that are **REQUIRED** (contain the words **MUST** or **MUST NOT**) are labeled as [**Rx**] for required. Items that are **RECOMMENDED** (contain the words **SHOULD** or **SHOULD NOT**) are labeled as [**Dx**] for desirable. Items that are **OPTIONAL** (contain the words **MAY** or **OPTIONAL**) are labeled as [**Ox**] for optional.

*Editor Note 3: The following paragraph will be deleted if no conditional requirements are used in the document.*

A paragraph preceded by [**CRa**]< specifies a conditional mandatory requirement that **MUST** be followed if the condition(s) following the "<" have been met. For example, "[**CR1**]<[D38]" indicates that Conditional Mandatory Requirement 1 must be followed if Desirable Requirement 38 has been met. A paragraph preceded by [**CDb**]< specifies a Conditional Desirable Requirement that **SHOULD** be followed if the condition(s) following the "<" have been met. A paragraph preceded by [**COc**]< specifies a Conditional Optional Requirement that **MAY** be followed if the condition(s) following the "<" have been met.

## 6 Introduction

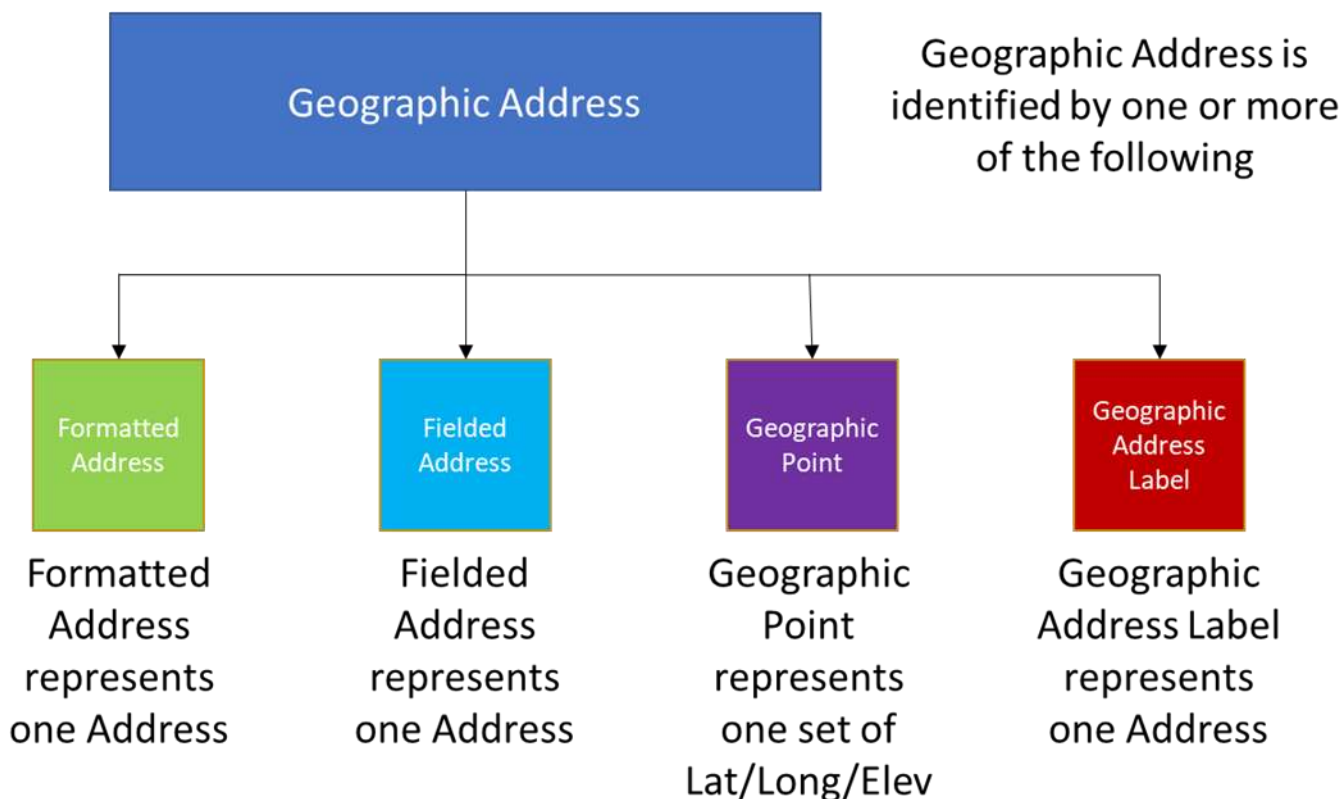
The LSO Cantata Interface Reference Point is defined in MEF 55.1 [3] to connect a Customer to a Service Provider. The LSO Sonata Interface Reference Point is defined in MEF 55.1 [3] to connect two providers together. The Customer or Service Provider obtaining Products from the other provider is known as the Buyer. The Service Provider providing Products to the Customer or the provider who the Service provider obtains Products from is known as the Seller. These two terms are used within the Cantata/Sonata Business Requirements and Use Case documents (MEF 79 [6], MEF 79.0.1 [7], MEF 79.0.2 [8], MEF 80 [9], MEF 81 [10], MEF 81.0.1 [11], MEF 57.1 [4], MEF 57.2 [5], and MEF W113[12]). This document provides test requirements and test cases for the requirements that are detailed in the Cantata/Sonata Business Requirements and Use Case suite of documents.

The areas addressed within this document are:

- Address Validation
- Service Site Retrieval
- Product Offering Qualification (POQ)
- Quote
- Product Ordering
- Product Inventory
- Trouble Ticketing
- Appointment

Each of these areas are addressed in detail within this document, deriving test requirements and test cases from the Business Requirements and Use Cases for each area. It should be noted that this document does not attempt to provide test requirements and test cases for every possible interaction between Buyer and Seller. The test cases represent either “sunny day” or positive scenarios or “cloudy day” or negative scenarios for each of these areas. All possible errors are not included in the test cases. Requirements from the suite of Cantata/Sonata Business Requirements and Use Case documents are identified as either tested or not tested.

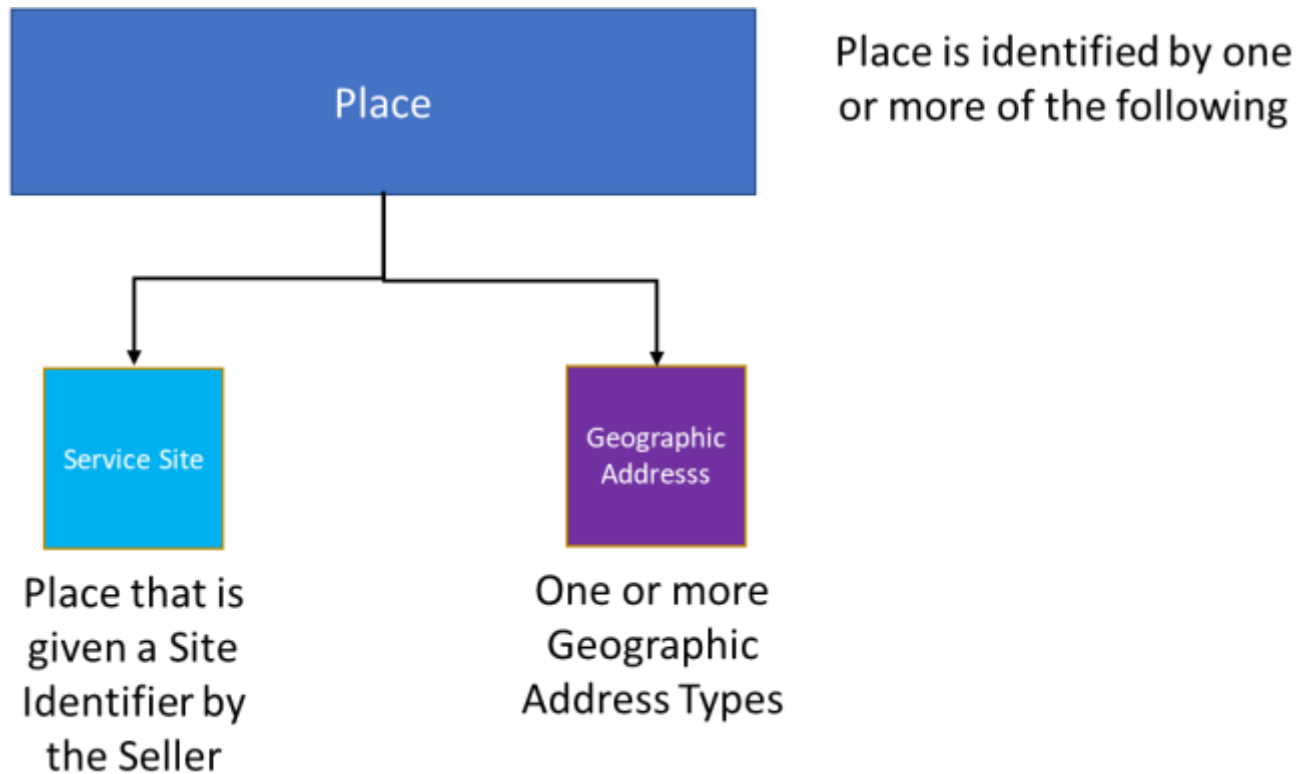
Address Validation includes Geographic Address Retrieval and Validation. Different address types (Fielded Address, Formatted Address, Geographic Points, and Geographic Address Label) for locations are included in the test requirements and test cases. Buyers check whether a Geographic Address is valid within the Seller’s systems and then retrieve information about the Geographic Address using the Seller provided Address ID. Test requirements and test cases verify that the Buyer is able to validate an address with the Unknown ID and Known ID methods described in MEF 79 [6]. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer.



**Figure 1 – Geographic Address Types**

Figure 1 shows the types of Geographic Addresses. A Geographic Address can be identified by one or more Formatted Addresses, Fielded Addresses, Geographic Address Label, or Geographic Point. A Geographic Point can be used to identify a single point on the Earth that includes the Latitude, Longitude, and Elevation. A Geographic Address Label can be used to identify a single Location.

Service Site Retrieval allows the Buyer to determine if the Seller has created a Service Site at a given Geographic Address and return the details about that Service Site. If a Service Site exists, the Buyer may refer to the Service Site Identifier for all subsequent parts of the pre-ordering and ordering processes. Test requirements and test cases verify that the Buyer is able to retrieve a list of Service Sites using Buyer provided criteria and retrieve details on a Site using the Seller Site Identifier. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer.



**Figure 2 – Place Relationship with Service Site and Geographic Address**

A Place is identified by a Service Site Identifier, a Geographic Address, or both. A Place may be identified by more than one type of Geographic Address. Place is a term used in the Business Requirement and Use Case documents to reflect a relationship between an item and a location related to that item. This document uses both Geographic Address Service Site to describe a Place.

The Buyer uses a POQ to determine if the Seller can support one or more Products at a given Place (Geographic Address or Service Site Identifier). Test requirements and test cases verify that the Buyer can create a POQ for a given Seller configuration, retrieve a list of POQs based on Buyer specified filter criteria, retrieve the details on a specific POQ using the Seller assigned POQ ID, and register for the Seller to send them notifications on POQs. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer, and that the Seller sends notifications on POQs correctly.

The Buyer requests a Quote to determine the pricing for one or more Product Offerings or Products. Test requirements and test cases verify that the Buyer can create, cancel, or reject a Quote, retrieve a list of Quotes based on Buyer specific filter criteria, retrieve details on a specific Quote using the Seller assigned Quote ID, and register for the Seller to send them notifications on Quotes. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer, and that the Seller sends notifications on Quotes correctly.

The Buyer uses Product Orders to request Product Fulfillment from a Seller. Test requirements and test cases verify that the Buyer can create, cancel, or PATCH an Order, retrieve a list of Orders based on Buyer specific filter criteria, retrieve details on a specific Product Order using the Seller



assigned Product Order ID, and register for the Seller to send them notifications on Order. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer, and that the Seller sends notifications on Orders correctly.

The Buyer uses Product Inventory to retrieve information from the Seller about a Product ID within the Seller's Inventory system. Test requirements and test cases verify that the Buyer can retrieve a list of Products matching Buyer filter criteria and retrieve a specific Product using the Seller assigned Product ID. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer.

The Buyer uses Trouble Ticketing to identify a fault or degradation with the Seller's Product to the Seller. Test requirements and test cases verify that the Buyer is able to create a Trouble Ticket, retrieve a list of Trouble Tickets based on Buyer filter criteria, retrieve details on a specific Trouble Ticket using the Seller assigned Trouble Ticket Identifier, PATCH or update a Trouble Ticket, Cancel a Trouble Ticket, respond to a Trouble Ticket clearance notification, retrieve a list of Incidents based on Buyer filter criteria, retrieve details on a specific Incident using the Seller assigned Incident Identifier, and register for the Seller to send them notifications on Trouble Tickets and Incidents. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer and that the Seller sends notifications on Trouble Tickets and Incidents correctly.

The Buyer uses Appointments to schedule a time for the Seller to perform work at a Customer location. Test requirements and test cases verify that the Buyer can create, cancel, or update an Appointment. The test cases also verify that the Seller responds correctly to valid and invalid requests from the Buyer.

## **6.1 Document Use**

This document is intended to be used by Providers who are implementing Cantata/Sonata APIs. It provides direction for both Buyers and Sellers who are implementing either Client or Server features. The graphs and sequence diagrams are included to provide an overview of each API and show interactions between Buyer and Seller using the APIs. The requirements from the Business Requirement and Use Cases suite of documents are included. Section 6.1.6 provides additional description on how these requirements are addressed within the document. Positive and negative Test Cases are included in each section and can be used by both Buyers and Sellers. The use of the test cases by Buyers and Sellers are explained in the following sections.

This document is focused on the API Envelope. The Test Cases are Product agnostic and do not address the Product specific schemas that are used as Payload within the APIs.

### **6.1.1 Buyers and Sellers**

The terms Buyer and Seller are used in the Business Requirements and Use Case documents to indicate the party involved in the Business transaction. From an API perspective, the terms Client and Server may be more familiar to readers of this document. The following table shows how these terms are used to describe the party for each high-level function of request, response, or notification.





Function	BR&UC	API	Comments
Request	Buyer	Client	
Response	Seller	Server	
Notification Generation	Seller	Server	
Charge Process Notification	Seller	Server	The Charge Process only applies to Product Orders
Charge Process Response	Buyer	Client	The Charge Process only applies to Product Orders

**Table 2 – Buyer and Seller Usage****6.1.2 Test Case Format**

The format of the Test Cases is explained in this section. Test Cases within this document are defined as shown in Table 3.

Each Test Case is assigned an identifier, a description of the Test Case, and three Test Case Steps which are identified as GIVEN, WHEN, and THEN. An explanation of each of these is shown below. The Entity is used to identify if the Test Case Step involves the Buyer or the Seller.

In addition, any requirements from the Business Requirements and Use Case documents which are verified by the Test Case Step are identified. The Test Case Identifier is also used in the requirement tables to indicate which Test Case is used to verify the requirement. Section 6.1.6 contains additional detail on this.

[Test Case 1]Description of Test Case			
Entity	TC Step	Verified Re-requirements	Comments
Preconditions	GIVEN - Assumptions and preconditions of the test case. As an example, a Fielded Address that is known by the Seller's system is identified for a Location.		
Buyer Request	WHEN – The type of request (POST or GET) and the attributes that must be included in the request.	Applicable requirements that are verified by this step from the table(s) of requirements.	
Seller Response	THEN – The response that is provided by the Server to the Client request. This includes the Response Code, and any attributes that are mandated to be returned in the response.	Applicable requirements that are verified by this step from the table(s) of requirements.	

**Table 3 – Example Test Case**

### 6.1.3 Test Case Use by Buyers

Buyers who are implementing Cantata/Sonata APIs use the test cases to ensure that their API implementation meets the Cantata/Sonata standards. There are several ways in which a Buyer might verify their implementation. These include the following:

- Interacting with an actual Seller test or production implementation
- Interacting with a test implementation
- Capturing API messages that are sent by the Buyer implementation and ensuring that the format of the message matches the API documentation.

Some of these methods might be preferable to others but within the document the expectation is that a Buyer who wants to test their implementation has determined a method to perform the validation.

Once the Buyer has identified the method they will use to perform validation, then they move on to identifying which Test Cases are applicable. The sections of this document are broken down to match with API implementations (e.g., Address Validation, Request Quote, etc.). The Buyer selects the applicable Test Cases that they wish to use. Once a Test Case has been identified, the Buyer determines which Test Case steps apply to their testing. Each step is shown as a row in the Test Case table. As an example, a Buyer who wants to verify that their implementation of the Address Validation API is correct for the unknown ID method of a Fielded Address would use

[Test Case 1]. From the Test Case Steps, the Buyer identifies what is required to be known before they perform the test. This information is provided as the GIVEN information.

- GIVEN –
  - the Buyer has a Fielded Address (Street Name, City, and Country).
  - The Buyer Fielded Address is in the Seller database and the Seller database has at least one address that matches the Buyer specified address.

If the Buyer is testing with an actual Seller implementation, then the Fielded Address must be agreed to by the Buyer and Seller. If they are testing with a test implementation, then they must ensure that the Fielded Address exists in the test implementation.

The Buyer then moves to the next Test Case Step which is sending a request. References to POST-MAN scripts have been provided to assist with this step. This step is provided as the WHEN information.

- WHEN –
  - the Buyer POSTs a Validate Address request with the
    - Address Type attribute of FIELDDED\_ADDRESS
      - Street Name
      - City
      - Country
      - Postal Code if applicable
      - Does not include a Seller Address ID

If the Buyer is testing to an actual implementation or a test server, they will receive a response. The response is described in the THEN information.

- THEN –
  - the Buyer receives a 201 response indicating success
  - The response contains a list of one or more Fielded Addresses that are considered a potential match.
  - Each Address returned includes:
    - Best Match
    - Street Name

- Street Number
- City
- Country
- Postal Code if applicable
- Each Address returned should contain the Fielded Address Identifier

Since Test Case 1 is a positive Test Case, a 20x response is received and at least one address is returned. This Test Case could also be performed with an address that does not exist in the Seller's database. This would result in a 20x response with an empty list being returned.

If the Buyer is capturing the request, they are not going to receive a response and can bypass this step.

#### **6.1.4 Test Case Use by Sellers**

Sellers who are implementing Cantata/Sonata APIs use the test cases to ensure that their API implementation meets the Cantata/Sonata standards. There are several ways in which a Seller might verify their implementation. These include the following:

- Interacting with an actual Buyer test or production implementation
- Interacting with a test implementation
- Capturing API messages that are sent to the Buyer in response to a simulated Buyer request and ensuring that the format of the message matches the API documentation.

Some of these methods might be preferable to others but within the document the expectation is that a Seller who wants to test their implementation has determined a method to perform the validation.

Once the Seller has identified the method they will use to perform validation, then they move on to identifying which Test Cases are applicable. The sections of this document are broken down to match with API implementations (e.g., Address Validation, Request Quote, etc.). The Seller selects the applicable Test Cases that they wish to use. Once a Test Case has been identified, the Seller determines which Test Case steps apply to their testing. Each step is shown as a row in the Test Case table. As an example, a Seller who wants to verify that their implementation of the Address Validation API is correct for the unknown ID method of a Fielded Address would use [Test Case 1]. From the Test Case Steps, the Seller identifies what is required to be known before they perform the test. This information is provided as the GIVEN information.

- GIVEN –
  - the Buyer has a Fielded Address (Street Name, City, and Country).

- The Buyer Fielded Address is in the Seller database and the Seller database has at least one address that matches the Buyer specified address.

If the Seller is testing with an actual Buyer implementation, then the Fielded Address must be agreed to by the Buyer and Seller. If they are testing with a test implementation, then they must ensure that the Fielded Address exists in the test implementation.

The Seller then moves to the next Test Case Step which is sending a request. References to POST-MAN scripts have been provided to assist with this step. This step is provided as the WHEN information.

- WHEN –
  - the Buyer POSTs a Validate Address request with the
    - Address Type attribute of FIELDDED\_ADDRESS
      - Street Name
      - City
      - Country
      - Postal Code if applicable
      - Does not include a Seller Address ID

The Seller will generate a response. The response is described in the THEN information.

- THEN –
  - a 201 response indicating success
  - The response contains a list of one or more Fielded Addresses that are considered a potential match
  - Each Address returned includes:
    - Best Match
    - Street Name
    - Street Number
    - City
    - Country
    - Postal Code if applicable

- Each Address returned should contain the Fielded Address Identifier

Since Test Case 1 is a positive Test Case, a 20x response is received and at least one address is returned. This Test Case could also be performed with an address that does not exist in the Seller's database. This would result in a 20x response with an empty list being returned.

If the Seller is capturing the request, they analyze the response to ensure that it meets the API specification.

#### **6.1.5 Test Cases Applicable to SDK Releases**

Since the Cantata and Sonata APIs are under development at this time, not all test cases apply to every SDK Release. A matrix that maps each test case to the SDK Releases that the test case can be used verify the Buyer or Seller implementation is provided in section 36. It must be noted that test cases are not defined within this document for every Use Case in every SDK Release. Some test cases only apply to certain SDK Releases due to updates to the APIs that were implemented in that release.

#### **6.1.6 Explanation of Document Formatting**

Each major section of this document covers a semantical group of Use Cases in one area of pre-Order or Order and is divided into multiple sub-sections. Each major section contains a sub-section that provides an overview of the API used for the Use Case.

The next sub-section contains applicable sequence diagrams which provide a high-level view of the process described in that section of the document.

This is followed by a sub-section that contains a table or tables with all requirements from the applicable Business Requirement and Use Case document(s) that address the area of the process covered in the major section. These tables are all formatted as follows:

- Requirement number
- Entity which indicates if this requirement is included in verification of the
  - Seller implementation (shown by an S)
  - Buyer implementation (shown by a B)
  - Both implementations (shown by a SB).
- Each requirement is identified as Tested yes or no.
  - Y indicates that the requirement is verified by the test requirements and test cases
  - N indicates that the requirement is not verified by the test requirements and test cases.
- The Test Case(s) which are used to verify the requirement

- Any comments

For the purpose of this document, a requirement that is shown as Tested = Y is verified in one or more Test Cases. A requirement that is shown as Tested = N is considered either desirable or optional for an implementation. As an example, a requirement that indicates a Buyer or Seller should or may include attributes in their request or response is not tested. A requirement that mandates that the Buyer or Seller include attributes in their request or response is tested.

For each Use Case within the area covered by the major section, the applicable Test Cases are grouped in their own sub-section and can be used to verify that the requirements indicated as Tested = Y are implemented correctly. Each Test Case includes the following:

- Entity which describes if a Test Case step is
  - Executed by the Buyer or Seller
  - Is a request, response, or notification
- TC Step Description which describes what occurs in this step of the Test Case
- Verified Requirements which defines which requirements can be verified by this Test Case
- Any comments

Each Test Case is followed by references to sample JSON GET or POST functions. These can be used by anyone developing a test plan to define the steps in the test plan.

*Editor Note 4: References to POSTMAN scripts will be provided in a later release of the document.*

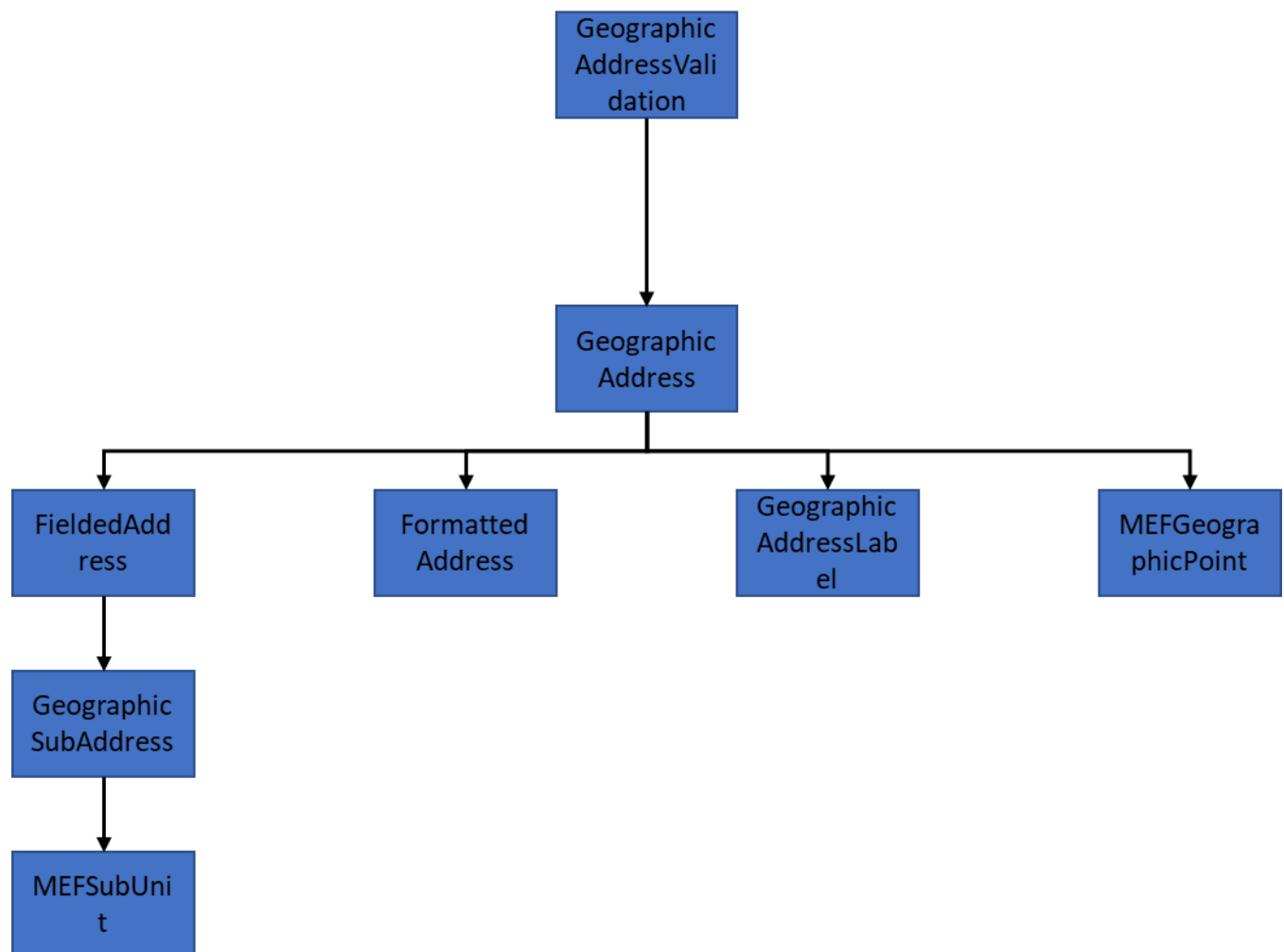


## 7 Address Validation Test Requirements and Test Cases

The Address Validation test requirements and test cases are defined in this section.

### 7.1 Address Validation API overview

An overview of the Address Validation API is shown in Figure 3.

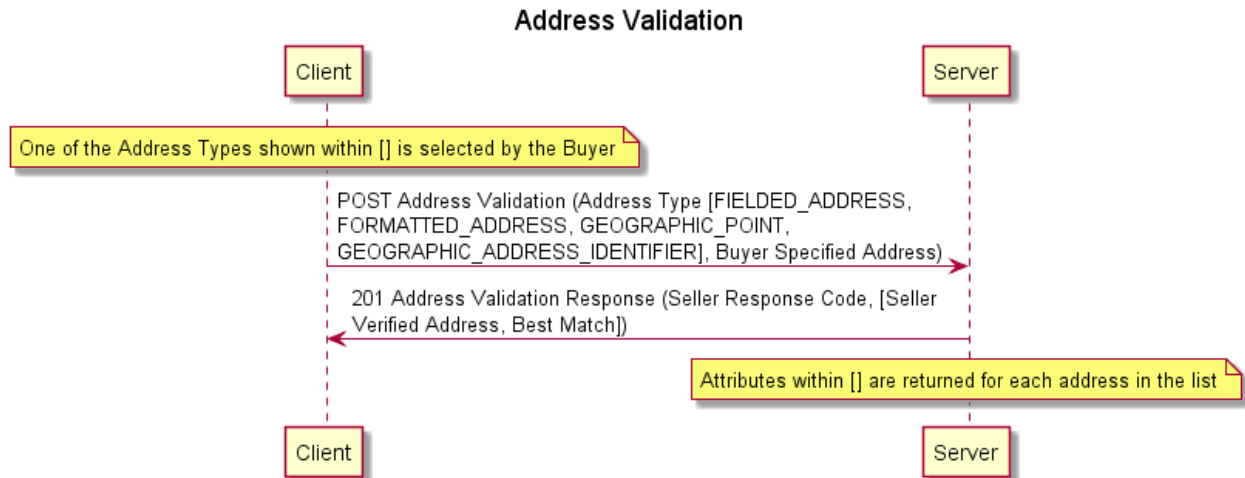


**Figure 3 – Address Validation Overview**

For information beyond what is shown in Figure 3 please see MEF W121 [13].

### 7.2 Address Validation Sequence Diagram

The Address Validation Sequence Diagram is shown in Figure 4.

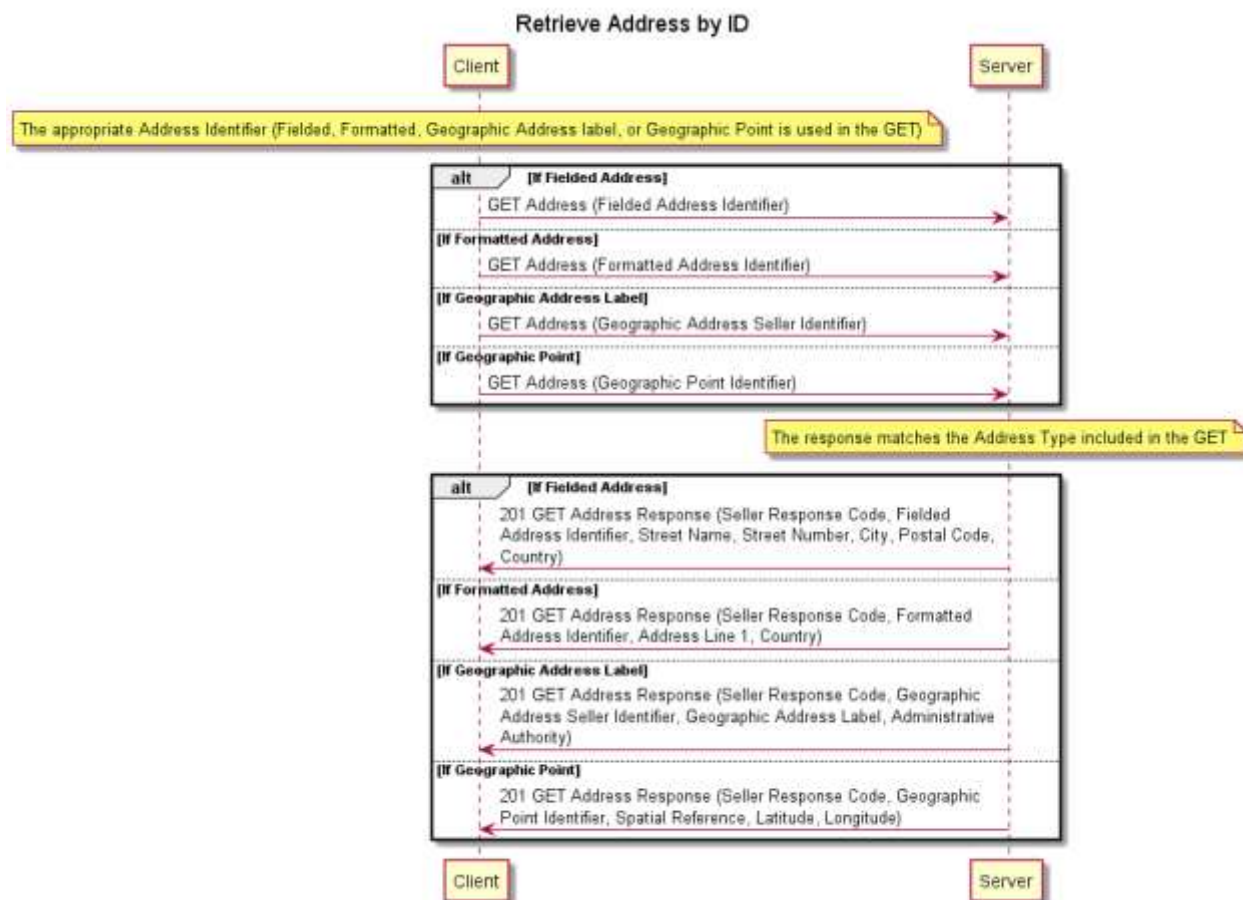


**Figure 4 – Address Validation Sequence Diagram**

Note: A list of zero (0) or more addresses are returned by the Server. Each address in the list includes the attributes shown in [] in the response.

### 7.3 Retrieve Address Sequence Diagram

The Retrieve Address by Identifier sequence diagram is shown in Figure 5.



**Figure 5 – Retrieve Address by Identifier Sequence Diagram**

Note: The Address Type in the response matches the Address Type in the request. For a response for a Geographic Address Label or Geographic Point, the response may also include the Fielded Address for the Location.

## 7.4 MEF 79, MEF 79.0.1, and MEF 79.0.2 Requirements

All Address Validation requirements from MEF 79 [6], MEF 79.0.1 [7], and MEF 79.0.2 [8] are shown in the following tables.

### 7.4.1 MEF 79 Requirements

The requirements from MEF 79 [6] are shown in Table 4.

Requirement	Entity	Tested	Test Case(s)	Comment
R1	S	Y		
D1	B	N		
D2	B	N		
D3	B	N		

<b>Requirement</b>	<b>Entity</b>	<b>Tested</b>	<b>Test Case(s)</b>	<b>Comment</b>
D4	B	N		
D5	S	Y		
D6	S	Y		
CR1<D6	S	Y		
R2	S	Y	[Test Case 1], [Test Case 7], [Test Case 18]	
R4	B	Y	[Test Case 1], [Test Case 4], [Test Case 5], [Test Case 6], [Test Case 7], [Test Case 10], [Test Case 11], [Test Case 12], [Test Case 16], [Test Case 17], [Test Case 18], [Test Case 19], [Test Case 20], [Test Case 21]	
R5	B	Y	[Test Case 1], [Test Case 5]	
R6	B	Y	[Test Case 6]	
R7	B	Y	[Test Case 4], [Test Case 7], [Test Case 10]	
R8	B	Y	[Test Case 6]	
R9	S	Y	[Test Case 1], [Test Case 4], [Test Case 5], [Test Case 6], [Test Case 7], [Test Case 10], [Test Case 11], [Test Case 12], [Test Case 16], [Test Case 17], [Test Case 18], [Test Case 19], [Test Case 20], [Test Case 21]	
R10	S	Y	[Test Case 1], [Test Case 5]	



Requirement	Entity	Tested	Test Case(s)	Comment
R11	S	Y	[Test Case 7], [Test Case 11]	
R12	S	Y	[Test Case 1], [Test Case 7], [Test Case 18], [Test Case 20]	
R13	S	Y	[Test Case 5], [Test Case 11]	
R14	S	Y	[Test Case 4], [Test Case 6], [Test Case 10], [Test Case 12], [Test Case 17], [Test Case 19], [Test Case 21]	
O1	S	N		
R15	S	Y	[Test Case 1], [Test Case 5], [Test Case 7], [Test Case 11], [Test Case 16], [Test Case 18], [Test Case 20]	
R16	S	Y	[Test Case 1], [Test Case 5], [Test Case 7], [Test Case 11], [Test Case 16], [Test Case 18], [Test Case 20]	
R84	B	Y	[Test Case 1], [Test Case 7]	
R85	S	Y	[Test Case 1], [Test Case 7]	
R86	SB	Y	[Test Case 1]	
R87	SB	Y	[Test Case 7]	
R88	B	Y	[Test Case 1], [Test Case 5]	Conditional if Fielded Address Supported
R89	B	Y	[Test Case 4]	Conditional if Fielded Address Supported Specific to Unknown Address ID
R90	B	Y	[Test Case 1]	Conditional if Fielded Address Supported



Requirement	Entity	Tested	Test Case(s)	Comment
				Specific to Unknown Address ID
O11	B	N		Conditional if Fielded Address Supported
R91	B	Y	[Test Case 5]	Conditional if Fielded Address Supported Specific to Known Address ID
D7	S	Y	[Test Case 1], [Test Case 5]	Conditional if Fielded Address Supported
R92	S	Y	[Test Case 1], [Test Case 5]	Conditional if Fielded Address Supported
O12	S	N		Conditional if Fielded Address Supported
R93	B	Y	[Test Case 7]	Conditional if Formatted Address Supported
R94	B	Y	[Test Case 7], [Test Case 10]	Conditional if Formatted Address Supported Specific to Unknown Address ID
R95	B	Y	[Test Case 7]	Conditional if Formatted Address Supported Specific to Unknown Address ID
O13	B	N		Conditional if Formatted Address Supported Specific to Unknown Address ID
R96	B	Y	[Test Case 11], [Test Case 12]	Conditional if Formatted Address Supported Specific to Known Address ID
R97	B	Y	[Test Case 11], [Test Case 12]	Conditional if Formatted Address Supported Specific to Known Address ID
D8	S	Y	[Test Case 11]	Conditional if Formatted Address Supported
R98	S	Y	[Test Case 7], [Test Case 11]	Conditional if Formatted Address Supported

Requirement	Entity	Tested	Test Case(s)	Comment
O14	S	N		Conditional if Formatted Address Supported

**Table 4 – MEF 79 Requirements for Address Validation**

*Editor Note 5: Requirements R89 and R91 in the above table are expected to be modified in MEF W79.0.2. This table will be updated once that is complete.*

#### 7.4.2 MEF 79.0.1 Requirements

There are no applicable requirements in MEF 79.0.1 [7].

#### 7.4.3 MEF 79.0.2 Requirements

The requirements from MEF 79.0.2 [8] are shown in Table 5.

Requirement	Entity	Tested	Test Case	Comment
A2-R1	B	Y	[Test Case 18], [Test Case 19]	
A2-R2	B	Y	[Test Case 20], [Test Case 21]	
A2-R3	B	Y	[Test Case 13], [Test Case 15]	
A2-R4	B	Y	[Test Case 16]	
A2-R5	S	Y	[Test Case 18], [Test Case 20]	
A2-O1	S	Y		If associated address is supported
A2-R6	S	Y	[Test Case 11], [Test Case 16], [Test Case 17]	
A2-R9	B	Y	[Test Case 13], [Test Case 15]	
A2-R10	B	Y	[Test Case 16], [Test Case 17]	Conditional if Geographic Address Label supported
A2-R11	S	Y	[Test Case 16]	Conditional if Geographic Address Label supported
A2-R12	B	N	[Test Case 18], [Test Case 19]	Conditional if Geographic Point supported
A2-R13	B	Y	[Test Case 19]	Conditional if Geographic Point supported
A2-R14	B	Y	[Test Case 18]	Conditional if Geographic Point supported
A2-O2	B	N		Conditional if Geographic Point supported



Requirement	Entity	Tested	Test Case	Comment
A2-R15	B	Y	[Test Case 20]	Conditional if Geographic Point supported
A2-R16	B	Y	[Test Case 21]	Conditional if Geographic Point supported
A2-R17	S	Y	[Test Case 18], [Test Case 20]	Conditional if Geographic Point supported
A2-R18	S	Y	[Test Case 18], [Test Case 20]	Conditional if Geographic Point supported
A2-O3	S	N		If associated address is supported

**Table 5 – MEF 79.0.2 Requirements for Address Validation**

*Editor Note 6: Comments have been raised in the MEF W79.0.2 CfC on several requirements shown in this table. The table will be updated once those comments are resolved.*

## 7.5 Address Validation Test Cases

The Address Validation test cases are defined in the following sections. Test Cases for the Unknown ID Methods have three possible successful outcomes. These are:

- The address in the Buyer's request has one exact match in the Seller's system and the Seller returns exactly one address
- The address in the Buyer's request has no exact match in the Seller's system but the Seller returns a list of one or more possible matches
- The address in the Buyer's request has no matches in the Seller's system and the Seller returns an empty list

There are Test Cases for each of these outcomes included in the Validate Address with Unknown ID Method sections in this document.

### 7.5.1 Validating Fielded Address with Unknown ID Method

The Address validation of a Fielded Address with Unknown ID Method ID test cases are defined in this section.

[R1] The Buyer and Seller **MUST** complete [Test Case 1] as shown in Table 6.

[Test Case 1] Fielded Address Unknown ID Method Exact Match Positive Response			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Fielded Address (Street Name, City, and Country).</p> <p>The Buyer Fielded Address is an exact match in the Seller database and the Seller has one address that matches the Buyer specified address.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Validate Address request with the Address Type attribute of FIELDDED_ADDRESS and that includes the Street Name, City, and Country and does not include a Fielded Address Identifier. A Postal Code must be included in the request if applicable for the specified country.</p>	MEF 79 [6] R4, R5, R84, R85, R86 R88, R89, R90	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one Fielded Address that is considered a match.</p> <p>The Address returned must include the Best Match attribute, the Street Name, Street Number, City, and Country.</p> <p>The Address returned should contain the Fielded Address Identifier.</p> <p>A Postal Code, must be included in the response if applicable for the specified country.</p>	MEF 79 [6] R2, R9, R10, R12, R15, R16, R92, D7	

Table 6 – [Test Case 1]

[R2] The Buyer and Seller **MUST** complete [Test Case 2] as shown in Table 7.

[Test Case 2]Fielded Address Unknown ID Method Possible Matches Positive Response			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Fielded Address (Street Name, City, and Country).</p> <p>The Buyer Fielded Address is a possible match to one or more addresses in the Seller database and the Seller has one or more addresses that are possible matches for the Buyer specified address.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Validate Address request with the Address Type attribute of FIELDDED_ADDRESS and that includes the Street Name, City, and Country and does not include a Fielded Address Identifier. A Postal Code must be included in the request if applicable for the specified country.</p>	MEF 79 [6] R4, R5, R84, R85, R86 R88, R89, R90	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one or more Fielded Address that are considered a possible match.</p> <p>Each Address returned must include the Best Match attribute, the Street Name, Street Number, City, and Country.</p> <p>Each Address returned should contain the Fielded Address Identifier.</p> <p>A Postal Code, must be included in the response if applicable for the specified country.</p>	MEF 79 [6] R2, R9, R10, R12, R15, R16, R92, D7	

**Table 7 – [Test Case 2]**

[R3]The Buyer and Seller **MUST** complete [Test Case 3] as shown in Table 7.

[Test Case 3]Fielded Address Unknown ID Method No Possible Matches Positive Response			
Entity	TC Step Description	Verified Re-requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Fielded Address (Street Name, City, and Country).</p> <p>The Buyer Fielded Address is not a possible match to any addresses in the Seller database.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Validate Address request with the Address Type attribute of FIELDDED_ADDRESS and that includes the Street Name, City, and Country and does not include a Fielded Address Identifier. A Postal Code must be included in the request if applicable for the specified country.</p>	MEF 79 [6] R4, R5, R84, R85, R86 R88, R89, R90	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and a list of zero Fielded Addresses that are considered a possible match.</p>	MEF 79 [6] R2, R9, R10, R12, R15, R16, R92, D7	

**Table 8 – [Test Case 3]**

[R4] The Buyer and Seller **MUST** complete [Test Case 4] as shown in Table 9.

[Test Case 4] Fielded Address Unknow ID Method Negative Case			
Entity	TC Step Description	Verified Re-requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Fielded Address (Street Name, City, and Country).</p> <p>The Buyer Fielded Address is in the Seller database and the Seller has at least one address that matches the Buyer specified address.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Validate Address request with a different schema than has been agreed to be used by the Buyer and Seller, the Address Type attribute of FIELDDED_ADDRESS, Street Name, Country and without the Fielded Address Identifier. A Postal Code must be included in the request if applicable for the specified country.</p>	MEF 79 [6] R4, R5, R89	
Validating Buyer Implementation	<p>THEN – the Buyer receives no response from the Seller.</p>		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	<p>THEN - the Buyer receives a 422 response from the Seller indicating a missingProperty error.</p>	MEF 79 [6] R9, R14	

Table 9 – [Test Case 4]

### 7.5.2 Retrieve Fielded Address with Seller Address ID

The Retrieve Fielded Address with Seller Address ID test cases are defined in this section. These test cases apply only if the Seller supports a Fielded Address ID.

[R5] The Buyer and Seller **MUST** complete [Test Case 5] as shown in Table 10 if a Fielded Address ID is supported by the Seller.

[Test Case 5] Retrieve Fielded Address with Seller Address ID			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Fielded Address Seller Address ID.</p> <p>The Fielded Address Seller Address ID exists within the Seller's database.</p>		
Buyer Request	<p>WHEN - the Buyer submits a GET Address request with the Address Type attribute of FIELDDED_ADDRESS and that includes Seller Address ID.</p>	MEF 79 [6] R4, R6, R88, R91	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one Fielded Address.</p> <p>The Address returned must include the Best Match attribute, the Street Name, Street Number, City, and Country.</p> <p>The Address returned must contain the Fielded Address Identifier.</p> <p>A Postal Code, must be included in the response if applicable for the specified country.</p>	MEF 79 [6] R9, R10, R13, R15, R16, R92, D7	

**Table 10 – [Test Case 5]**

[R6] The Buyer and Seller **MUST** complete [Test Case 6] as shown in Table 11 if Fielded Address IDs are supported by the Seller.

[Test Case 6] Retrieve Fielded Address with Seller Address ID Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Fielded Address Seller Address ID.</p> <p>The Fielded Address Seller Address ID exists within the Seller's database.</p>		
Buyer Request	WHEN - the Buyer submits a GET Address request with the Address Type attribute of FIELDDED_ADDRESS that includes Seller Address ID and the Street Number.	MEF 79 [6] R4, R6, R88	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating an unexpected attribute was included in the request.	MEF 79 [6] R9, R14	

**Table 11 – [Test Case 6]**

### 7.5.3 Validating Formatted Address with Unknown ID Method

The Address validation of a Formatted Address with Unknown ID Method ID test cases are defined in this section.

[R7] The Buyer and Seller **MUST** complete [Test Case 7] as shown in Table 12.



[Test Case 7] Validate Formatted Address with Unknown ID Exact Match Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Formatted Address (Address Line 1 and Country).</p> <p>The Buyer Formatted Address is an exact match to a Formatted Address in the Seller's database.</p>		
Buyer Request	<p>WHEN- the Buyer POSTs a Validate Address request with the Address Type attribute of FORMATTED_ADDRESS and that includes the Address Line 1 and Country and does not include a Formatted Address Identifier.</p>	MEF 79 [6] R4, R7, R84, R85, R87, R93, R94, R95	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing exactly one Formatted Address that is considered a match.</p> <p>The Address returned must include the Best Match attribute, Address Line 1 and Country.</p> <p>The Address returned should contain the Formatted Address Identifier.</p>	MEF 79 [6] R2, R9, R11, R12, R15, R16, R98, D8	

**Table 12 – [Test Case 7]**

[R8]The Buyer and Seller **MUST** complete [Test Case 8] as shown in Table 13.

[Test Case 8] Validate Formatted Address with Unknown ID One or More Possible Matches Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Formatted Address (Address Line 1 and Country).</p> <p>The Buyer Formatted Address is a possible match to one or more Formatted Addresses in the Seller's database.</p>		
Buyer Request	<p>WHEN- the Buyer POSTs a Validate Address request with the Address Type attribute of FORMATTED_ADDRESS and that includes the Address Line 1 and Country and does not include a Formatted Address Identifier.</p>	MEF 79 [6] R4, R7, R84, R85, R87, R93, R94, R95	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing a list of one or more Formatted Addresses that are considered a possible match.</p> <p>Each Address returned must include the Best Match attribute, Address Line 1 and Country.</p> <p>Each Address returned should contain the Formatted Address Identifier.</p>	MEF 79 [6] R2, R9, R11, R12, R15, R16, R98, D8	

Table 13 – [Test Case 8]

[R9]The Buyer and Seller **MUST** complete [Test Case 9] as shown in Table 14.

[Test Case 9] Validate Formatted Address with Unknown ID Zero Possible Matches Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Formatted Address (Address Line 1 and Country).</p> <p>The Buyer Formatted Address is not a possible match to any Formatted Addresses in the Seller's database.</p>		
Buyer Request	WHEN- the Buyer POSTs a Validate Address request with the Address Type attribute of FORMATTED_ADDRESS and that includes the Address Line 1 and Country and does not include a Formatted Address Identifier.	MEF 79 [6] R4, R7, R84, R85, R87, R93, R94, R95	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and containing a list of zero Formatted Addresses that are considered a possible match.	MEF 79 [6] R2, R9, R11, R12, R15, R16, R98, D8	

**Table 14 – [Test Case 9]**

[R10] The Buyer and Seller **MUST** complete [Test Case 10] as shown in Table 15.

[Test Case 10] Validate Formatted Address Unknow ID Method Negative Case			
Entity	TC Step Description	Verified Re-requirements	Comments
Preconditions	<p>GIVEN- the Buyer has a Formatted Address (Address Line 1 and Country).</p> <p>The Buyer Formatted Address is in the Seller database and the Seller has at least one address that matches the Buyer specified address.</p>		
Buyer Request	WHEN - the Buyer POSTs a Validate Address request with the Address Type attribute of FORMATTED_ADDRESS and that includes Address Line 1 and omits the Country.	MEF 79 [6] R4, R7, R93	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating a missingProperty error.	MEF 79 [6] R9, R14	

Table 15 – [Test Case 10]

#### 7.5.4 Retrieve Formatted Address with Seller Address ID

The Retrieve Formatted Address with Seller Address ID test cases are defined in this section. These test cases apply only if the Seller supports a Formatted Address ID.

[R11] The Buyer and Seller **MUST** complete [Test Case 11] as shown in Table 16 if Formatted Address IDs are supported by the Seller.

[Test Case 11] Retrieve Formatted Address with Seller Address ID Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Formatted Address Seller Address ID.</p> <p>The Seller Address ID exists within the Seller's database.</p>		
Buyer Request	<p>WHEN - the Buyer submits a GET Address request with the Address Type attribute of FORMATTED_ADDRESS and that includes Seller Address ID.</p>	MEF 79 [6] R4, R8, R93, R96, R97	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one Formatted Address.</p> <p>The Address returned must include the Best Match attribute, Address Line 1, and Country.</p> <p>The Address returned must contain the Formatted Address Identifier.</p>	MEF 79 [6] R9, R11, R13, R15, R16, R98, D8	

**Table 16 – [Test Case 11]**

[R12] The Buyer and Seller **MUST** complete [Test Case 12] as shown in Table 17 if Formatted Address IDs are supported by the Seller.

[Test Case 12] Retrieve Formatted Address with Seller Address ID Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Formatted Address Seller Address ID.</p> <p>The Seller Address ID exists within the Seller's database.</p>		
Buyer Request	WHEN - the Buyer submits a Validate Address request with the Address Type attribute of FORMATTED_ADDRESS that includes Seller Address ID and the Address Line 1.	MEF 79 [6] R4, R8, R93 R97	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller.	MEF 79 [6] R9, R14	

**Table 17 – [Test Case 12]**

### 7.5.5 Validating Geographic Address Label with Unknown ID Method

The Address validation of a Geographic Address Label with Unknown ID Method ID test cases are defined in this section. Address Validation of a Geographic Address Label results in either one exact match or zero matches. There is no list of possible matches returned.

[R13] The Buyer AND Seller **MUST** complete [Test Case 13] as shown in Table 18.

[Test Case 13] Validate Geographic Address Label with Unknown ID Method Exact Match Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Geographic Address Label (Geographic Address Acronym and Administrative Authority).</p> <p>The Geographic Address Label is an exact match to one address in the Seller database.</p>		
Buyer Request	<p>WHEN - the Buyer submits a Validate Address request with the Address Type attribute of GEOGRAPHIC_ADDRESS_LABEL and that includes the Geographic Address Label and Administrative Authority.</p>	<p>MEF 79 [6] R4 MEF 79.0.2 [8] A2-R3, A2-R12</p>	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one Geographic Address Label.</p> <p>The Address returned must include the Best Match attribute = TRUE, Geographic Address Label, and Administrative Authority.</p> <p>The Address returned may include the Geographic Address Seller Identifier</p>	<p>MEF 79 [6] R2, R9, R15, R16 MEF 79.0.2 [8] A2-R6, A2-R11</p>	

**Table 18 – [Test Case 13]**

[R14]The Buyer AND Seller **MUST** complete [Test Case 14] as shown in Table 19.



[Test Case 14] Validate Geographic Address Label with Unknown ID Method Zero Matches Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Geographic Address Label (Geographic Address Acronym and Administrative Authority).</p> <p>The Geographic Address Label is not a possible match to any address in the Seller database.</p>		
Buyer Request	WHEN - the Buyer submits a Validate Address request with the Address Type attribute of GEOGRAPHIC_ADDRESS_LABEL and that includes the Geographic Address Acronym, and Administrative Authority.	MEF 79 [6] R4 MEF 79.0.2 [8] A2-R3, A2-R9	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and containing a list of zero Geographic Address Labels.	MEF 79 [6] R9, R15, R16 MEF 79.0.2 [8] A2-R6, A2-R11	

**Table 19 – [Test Case 14]**

[R15] The Buyer and Seller **MUST** complete [Test Case 15] as shown in Table 20.

[Test Case 15] Validate Geographic Address Label with Unknow Method Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Geographic Address Label (Geographic Address Label and Administrative Authority).</p> <p>The Geographic Address Label is in the Seller database and the Seller has at least one address that matches the Buyer specified address.</p>		
Buyer Request	WHEN - the Buyer POSTs a Validate Address request with the Address Type attribute of GEOGRAPHIC_ADDRESS_LABEL that includes Geographic Address Label but not and is missing the Administrative Authority.	MEF 79 [6] R4 MEF 79.0.2 [8] A2-R3, A2-R9	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating a missingProperty error.	MEF 79 [6] R9, R14	

Table 20 – [Test Case 15]

### 7.5.6 Retrieve Geographic Address Label with Seller Address ID

The Retrieve Geographic Address Label with Geographic Address Seller Identifier test cases are defined in this section. These test cases apply only if the Seller supports a Geographic Address Seller Identifier.

[R16] The Buyer and Seller **MUST** complete [Test Case 16] as shown in Table 21 if Geographic Address Seller Identifiers are supported by the Seller.

[Test Case 16] Retrieve Geographic Address Label with Geographic Address Seller Identifier Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer knows the Geographic Address Seller Address Identifier.</p> <p>The Geographic Address Seller Address Identifier exists within the Seller's database.</p>		
Buyer Request	<p>WHEN - the Buyer submits a GET Address by ID request with the Address Type attribute of GEOGRAPHIC_ADDRESS_LABEL and that includes the Geographic Address Seller Identifier.</p>	<p>MEF 79 [6] R4</p> <p>MEF 79.0.2 [8] A2-R4, A2-R10, A2-R13, A2-R14</p>	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one Geographic Address Label.</p> <p>The Address returned must include the Best Match attribute = TRUE, Geographic Address Label, Administrative Authority, and Geographic Address Seller Identifier.</p>	<p>MEF 79 [6] R9, R15, R16</p> <p>MEF 79.0.2 [8] A2-R6, A2-R11</p>	
Post Condition	<p>The Seller response may also include a Fielded Address that describes the Geographic Address Label within the Seller's database.</p>	<p>MEF 79.0.2 [8] A2-O2</p>	

Table 21 – [Test Case 16]

[R17] The Buyer and Seller **MUST** complete [Test Case 17] as shown in Table 22 if Geographic Address Seller Identifiers are supported by the Seller.

[Test Case 17] Retrieve Geographic Address Label with Geographic Address Seller Identifier Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer knows the Geographic Address Seller Identifier.</p> <p>The Geographic Address Acronym Seller Address ID exists within the Seller's database.</p>		
Buyer Request	WHEN - the Buyer submits a GET Address by ID request with the Address Type attribute of GEOGRAPHIC_ADDRESS_LABEL and that includes the Geographic Address Seller Identifier and the Administrative Authority.	MEF 79 [6] R4 MEF 79.0.2 [8] A2-R10	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller.	MEF 79 [6] R9, R14	

Table 22 – [Test Case 17]

### 7.5.7 Validating Geographic Point Address with Unknown ID Method

The Address Validating Geographic Point Address with Unknown ID Method ID test cases are defined in this section. Address Validation of a Geographic Point results in either one exact match or zero matches. There is no list of possible matches returned.

[R18] The Buyer and Seller **MUST** complete [Test Case 18] as shown in Table 23.

[Test Case 18] Validate Geographic Point Address with Unknown ID Method Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Geographic Point Address (Spatial Reference, Latitude, and Longitude).</p> <p>The Geographic Point Address is in the Seller database and the Seller has at least one address that matches the Buyer specified address.</p>		
Buyer Request	WHEN - The Buyer POSTs a Validate Address request with the Address Type attribute of GEOGRAPHIC_POINT and that includes the Spatial Reference, Latitude, and Longitude and does not include a Geographic Point Identifier.	MEF 79 [6] R4 MEF 79.0.2 [8] A2-R1, A2-R16, A2-R17, A2-R18	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one or more Geographic Points that are considered a potential match.</p> <p>Each Geographic Point returned must include the Best Match attribute, Geographic Point Identifier, Spatial Reference, Latitude, and Longitude.</p>	MEF 79 [6] R2, R9, R12, R15, R16, MEF 79.0.2 [8] A2-R5, A2-R21, A2-R22	
Postconditions	The Seller response may also include a Fielded Address that describes the Geographic Point within the Seller's database.	MEF 79.0.2 [8] A2-O6	

Table 23 – [Test Case 18]

[R19] The Buyer and Seller **MUST** complete [Test Case 19] as shown in Table 24.

[Test Case 19] Validate Geographic Point Address Unknown ID Method negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer has a Geographic Point Address (Spatial Reference, Latitude, and Longitude).</p> <p>The Geographic Point Address is in the Seller database and the Seller has at least one address that matches the Buyer specified address.</p>		
Buyer Request	WHEN - the Buyer submits a POST Validate Address request with the Address Type attribute of GEOGRAPHIC_POINT and that includes the Spatial Reference, Latitude, and is missing the Longitude.	MEF 79 [6] R4 MEF 79.0.2 [8] A2-R1, A2-R12, A2-R13	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating an unexpected attribute was included in the request a missingProperty error.	MEF 79 [6] R9, R14	

Table 24 – [Test Case 19]

### 7.5.8 Retrieve Geographic Point Address with Known ID Method

The Retrieve Geographic Point Address with Known ID Method test cases are defined in this section.

[R20]The Buyer and Seller **MUST** complete [Test Case 20] as shown in Table 25 if Geographic Point Identifiers are supported by the Seller.

[Test Case 20] Retrieve Geographic Point with Known ID Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer knows the Geographic Point Address Seller Address ID.</p> <p>The Geographic Point Address Seller Address ID exists within the Seller's database.</p>		
Buyer Request	<p>WHEN - the Buyer submits a GET Address request with the Address Type attribute of GEOGRAPHIC_POINT and that includes the Geographic Point Identifier.</p>	<p>MEF 79 [6] R4</p> <p>MEF 79.0.2 [8] A2-R2, A2-R5, A2-R19, A2-R20</p>	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and containing one Geographic Point. .</p> <p>The Geographic Point returned must include the Geographic Point Identifier, Spatial Reference, Latitude, and Longitude.</p>	<p>MEF 79 [6] R9, R12, R15, R16, MEF 79.0.2 [8] A2-R2, A2-R6, A2-R21, A2-R22</p>	
Postconditions	<p>The Seller response may also include a Fielded or Formatted address that describes the Geographic Point within the Seller's database.</p>	A2-O6	

**Table 25 – [Test Case 20]**

[R21]The Buyer and Seller **MUST** complete [Test Case 21] as shown in Table 26 if Geographic Point Identifiers are supported by the Seller.

[Test Case 21] Retrieve Geographic Point Address with Seller Address ID Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer knows the Geographic Point Address Seller Address ID.</p> <p>The Geographic Point Address Seller Address ID exists within the Seller's database.</p>		
Buyer Request	WHEN - the Buyer submits a GET Address request with the Address Type attribute of GEOGRAPHIC_POINT and that includes the Geographic Point Identifier and Spatial Reference.	MEF 79 [6] R4 MEF 79.0.2 [8] A2-R2, A2-R12, A2-R16	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating an unexpected attribute was included in the request.	MEF 79 [6] R9, R14	

Table 26 – [Test Case 21]



## 8 Site Retrieval Test Requirements and Test Cases

The Site Retrieval test requirements and test cases are defined in this section.

### 8.1 Site Retrieval API Overview

*Editor Note 7: Content will be provided in a later revision of the document.*

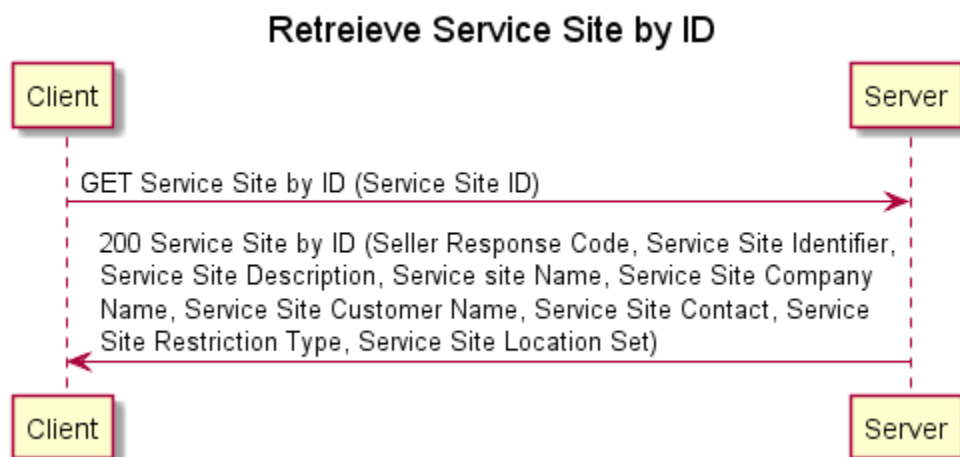
### 8.2 Site Retrieval Sequence Diagram

The Retrieve Service Site List sequence diagram is shown in Figure 6.



**Figure 6 – Retrieve Service Site List Sequence Diagram**

The Retrieve Service Site by ID sequence diagram is shown in Figure 7.



**Figure 7 – Retrieve Service Site by ID Sequence Diagram**

### 8.3 MEF 79, MEF 79.0.1, and MEF 79.0.2 Requirements

All Site Retrieval requirements from MEF 79 [6], MEF 79.0.1 [7] and MEF 79.0.2 [8] are shown in the following tables.

#### 8.3.1 MEF 79 Requirements

The requirements from MEF 79 [6] are shown in Table 27.

Requirement	Entity	Tested	Test Case	Comment
R17	B	Y		
O2	B	N		
R18	B	Y		
R19	S	Y		
R20	S	Y		Retrieve Service Site List only
R21	S	Y		Retrieve Service Site ID only
R22	S	Y		
R23	S	Y		
<del>R24</del>	<del>S</del>	<del>Y</del>		Deleted per MEF W79.0.2 [8]
O3	S	N		
R101	SB	Y		
<del>R102</del>	<del>SB</del>	<del>Y</del>		<del>Only if Service Site is GLOBAL_REFERENCE</del> Deleted per MEF 79.0.2 [8]
R103	SB	Y		Only if Service Site is GEO-GRAPHIC_POINT
R104	B	Y		Only if Service Site is FIELDDED_ADDRESS
R105	B	Y		Only of Service Site is FORMAT-TED_ADDRESS

Requirement	Entity	Tested	Test Case	Comment
R106	S	Y		Only if Service Site is FIELDDED_AD-DRESS
R107	S	Y		Only of Service Site is FORMAT-TED_ADDRESS

**Table 27 – MEF 79 Requirements for Site Retrieval**

### 8.3.2 MEF 79.0.1 Requirements

There are no applicable requirements from MEF 79.0.1 [7].

### 8.3.3 MEF 79.0.2 Requirements

The requirements from MEF 79.0.2 [8] are shown in Table 28.

Requirement	Entity	Tested	Test Case Section	API Version	Comment
A2-R7	S	Y			
A2-R19	SB	Y			Only if Service Site is GLOBAL_AD-DRESS_LABEL
A2-R20	S	Y			Only if Service Site is GEO-GRAPHIC_POINT
A2-R21	S	Y			Only if Service Site is GLOBAL_AD-DRESS_LABEL

**Table 28 – MEF 79.0.2 Requirements for Site Retrieval**

## 8.4 Service Site Retrieval Test Cases

The Service Site Retrieval test cases are defined in the following sections.

*Editor Note 8: Test Cases for Service Site Retrieval will be provided in a later revision of this document.*

### 8.4.1 Retrieve Service Site List

The Retrieve Service Site List test cases are defined in this section.

### 8.4.2 Retrieve Service Site by ID

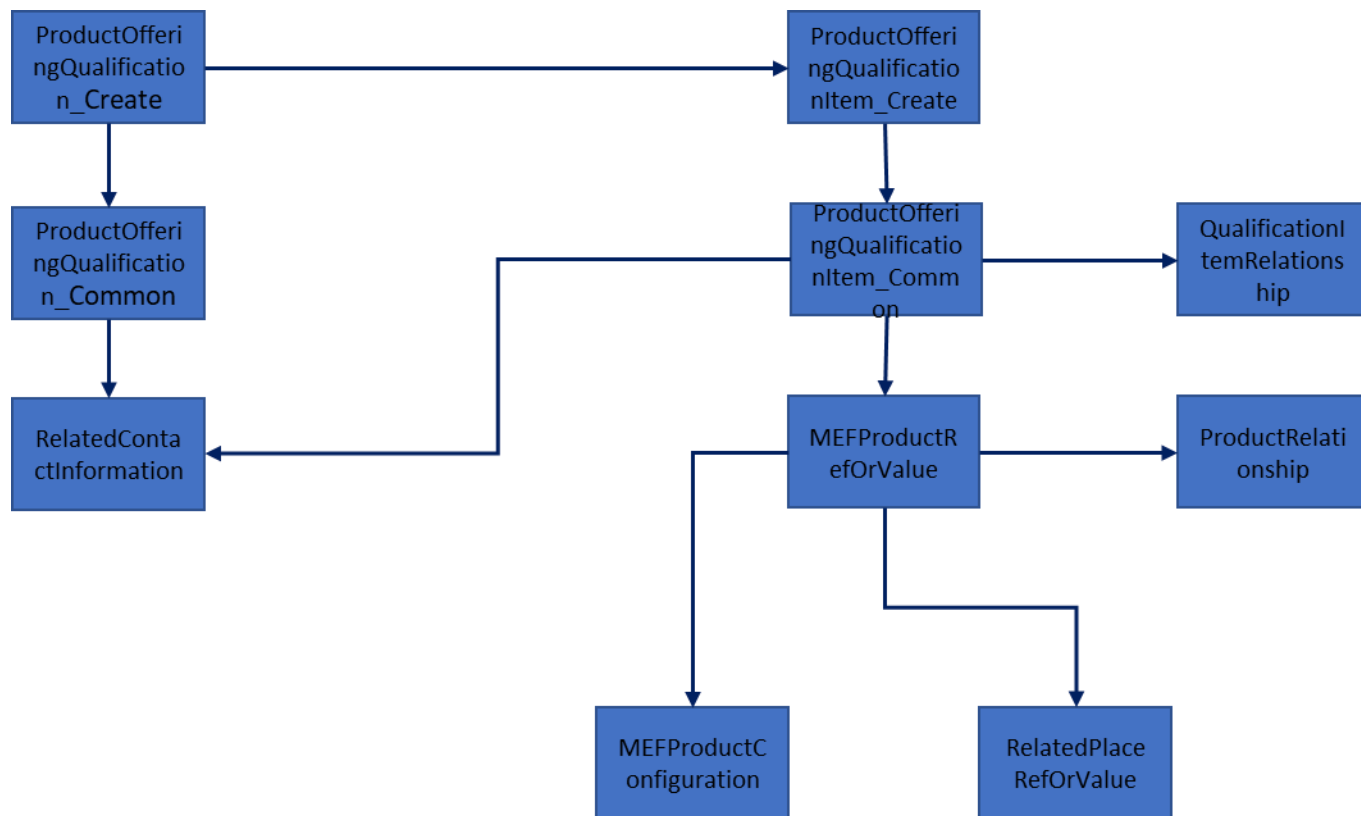
The Retrieve Service Site by Service Site Identifier test cases are defined in this section.

## 9 Product Offering Qualification Creation

The POQ Creation test requirements and test cases are defined in this section.

### 9.1 POQ Creation API Overview

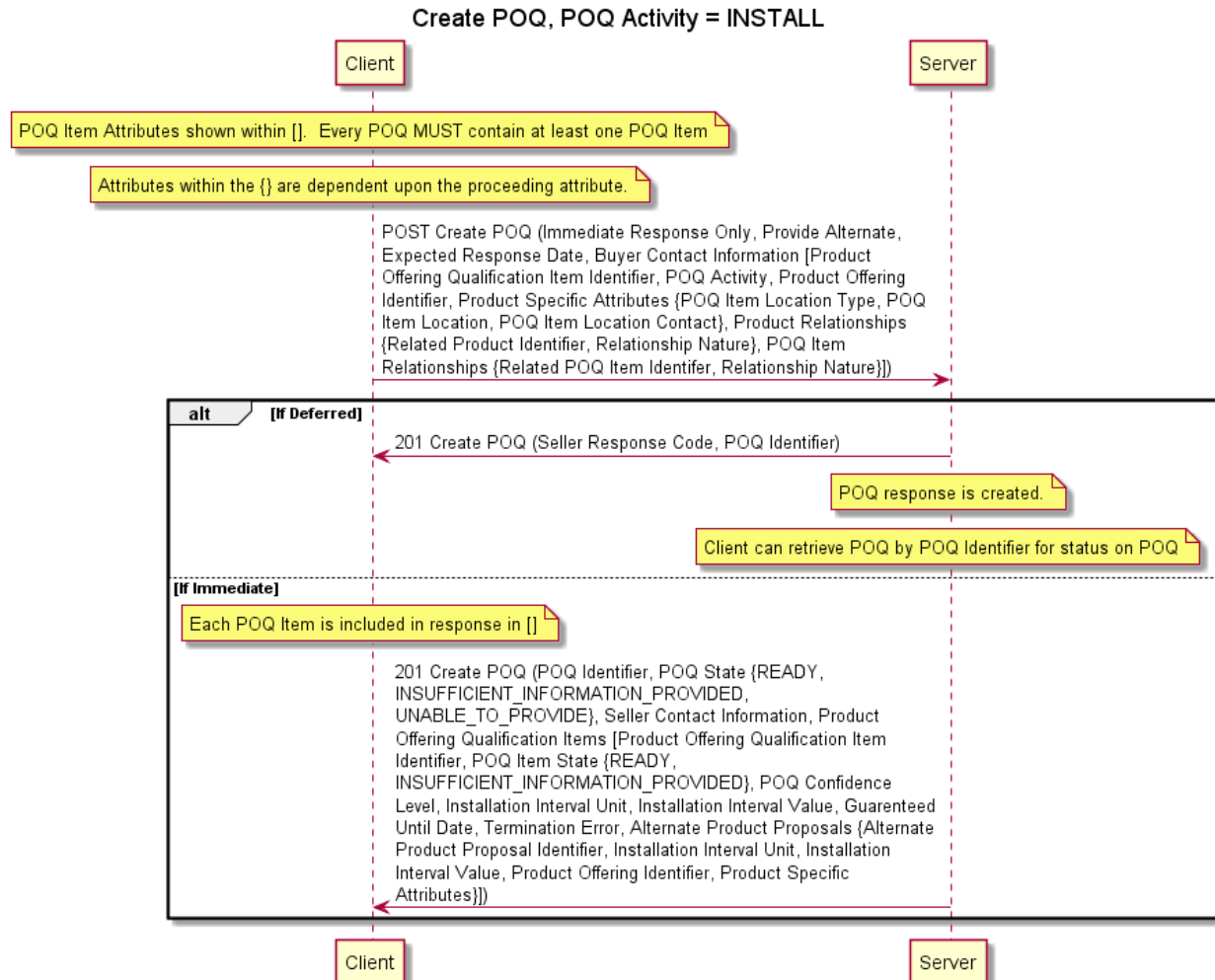
An overview of the POQ Creation API is shown in Figure 8.



**Figure 8 – POQ Creation API Overview**

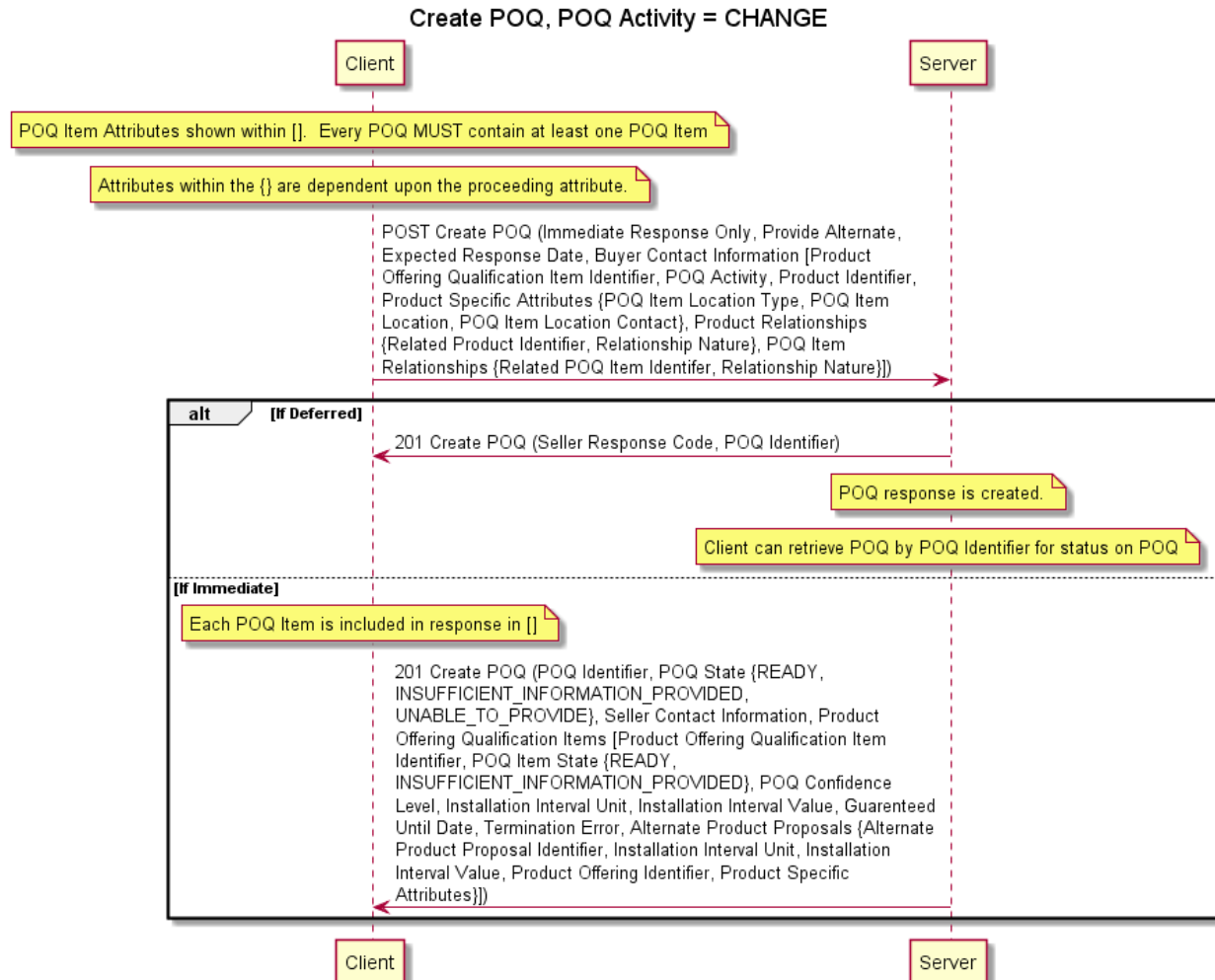
### 9.2 POQ Creation Sequence Diagrams

The POQ Creation sequence diagram with a POQ Activity = INSTALL is shown in Figure 9.



**Figure 9 – POQ Creation POQ Activity = INSTALL Sequence Diagram**

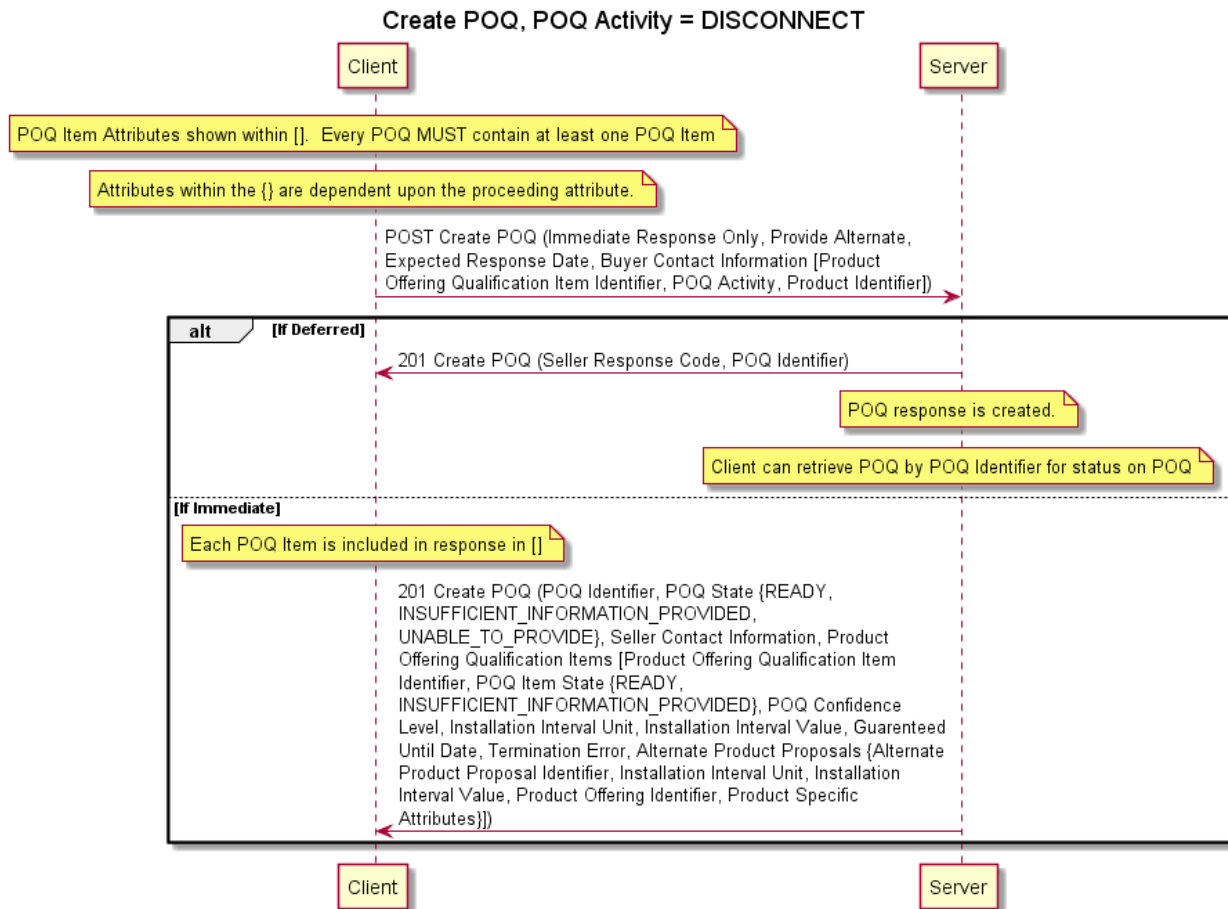
The POQ Creation sequence diagram with a POQ Activity = CHANGE is shown in Figure 10.



**Figure 10 – POQ Creation POQ Activity = CHANGE Sequence Diagram**

Note: R34 in MEF 79 [6] appears to be in error. A POQ request with a POQ Activity of CHANGE should not allow a Product Offering Identifier to be included in the request. Within this document, R34 is ignored. This results in R35 and R37 from MEF 79 [6] also not applying to associated test cases.

The POQ Creation sequence diagram with a POQ Activity = DISCONNECT is shown in Figure 11.



**Figure 11 – POQ Creation POQ Activity = DISCONNECT Sequence Diagram**

### 9.3 MEF 79, MEF 79.0.1, and MEF 79.0.2 Requirements

All POQ Creation requirements from MEF 79 [6], MEF 79.0.1 [7] and MEF 79.0.2 [8] are shown in the following tables.

#### 9.3.1 MEF 79 Requirements

The requirements from MEF 79 [6] are shown in Table 27.

Requirement	Entity	Tested	Test Case	Comment
R27	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 29] [Test Case 30] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 41] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 49] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 60] [Test Case 61] [Test Case 62] [Test Case 63] [Test Case 64] [Test Case 65]	
R28	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29]	





Requirement	Entity	Tested	Test Case	Comment
			[Test Case 30] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 41] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 49] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 60] [Test Case 61] [Test Case 62] [Test Case 63] [Test Case 64] [Test Case 65]	
O4	B	N		
R29	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 30] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 41] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 49] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 60] [Test Case 61] [Test Case 62] [Test Case 63] [Test Case 64] [Test Case 65]	
R30	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 30]	Product Action = IN-STALL



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40]	
R31	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 30] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40]	Product Action = INSTALL
R32	B	Y	[Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58]	Product Action = CHANGE or DISCONNECT



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 59] [Test Case 61] [Test Case 64]	
R33	B	Y	[Test Case 61] [Test Case 64]	Product Action = DISCONNECT
R34	B	Y		Invalid Requirement
R35	B	N		Ignored due to R34 being invalid
R36	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 30] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	



Requirement	Entity	Tested	Test Case	Comment
R37	B	Y		Ignored due to R34 being invalid.
R38	B	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 30] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R39	SB	Y		
R40	S	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26]	

<b>Requirement</b>	<b>En- tity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 27] [Test Case 28] [Test Case 29] [Test Case 30] [Test Case 41] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 49] [Test Case 60] [Test Case 61] [Test Case 62] [Test Case 63]	
R41	S	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 30] [Test Case 41] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 49] [Test Case 60] [Test Case 61] [Test Case 62] [Test Case 63]	
R42	S	N		Does not indicate success. We do not have a valid way to test this at this time.
R43	S	Y	[Test Case 31] [Test Case 32]	

<b>Requirement</b>	<b>En- tity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R44	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R45	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35]	

<b>Requirement</b>	<b>En- tity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R46	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R47	S	Y	[Test Case 36] [Test Case 40] [Test Case 55] [Test Case 59]	
R48	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36]	



<b>Requirement</b>	<b>Entity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R49	S	N		Does not indicate success. We do not have a valid way to test this.
R50	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R51	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35]	

<b>Requirement</b>	<b>En- tity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
R52	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 59] [Test Case 64]	
R53	S	Y	[Test Case 36] [Test Case 40] [Test Case 59]	
R54	S	Y	[Test Case 36] [Test Case 40] [Test Case 59]	
R55	S	Y	[Test Case 31] [Test Case 32] [Test Case 33]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 64]	
R56	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 64]	
O5	S	N		
O6	S	Y	[Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 50] [Test Case 51]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 64]	
R57	S	N		

Table 29 – MEF 79 Requirements for Create POQ

## 9.3.2 MEF 79.0.1 Requirements

The requirements from MEF 79.0.1 [7] are shown in Table 30.

Requirement	Entity	Tested	Test Case	Comment
A1-R1	SB	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52]	

Requirement	Entity	Tested	Test Case	Comment
			[Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
A1-R2	SB	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
A1-R3	SB	Y	[Test Case 22]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
A1-R4	SB	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 31] [Test Case 32] [Test Case 33]	

Requirement	Entity	Tested	Test Case	Comment
			[Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44] [Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	
A1-R5	SB	Y	[Test Case 22] [Test Case 23] [Test Case 24] [Test Case 25] [Test Case 26] [Test Case 27] [Test Case 28] [Test Case 29] [Test Case 31] [Test Case 32] [Test Case 33] [Test Case 34] [Test Case 35] [Test Case 36] [Test Case 37] [Test Case 38] [Test Case 39] [Test Case 40] [Test Case 42] [Test Case 43] [Test Case 44]	

Requirement	Entity	Tested	Test Case	Comment
			[Test Case 45] [Test Case 46] [Test Case 47] [Test Case 48] [Test Case 50] [Test Case 51] [Test Case 52] [Test Case 53] [Test Case 54] [Test Case 55] [Test Case 56] [Test Case 57] [Test Case 58] [Test Case 59] [Test Case 64]	

**Table 30 – MEF 79.0.1 Requirements for Create POQ**

### 9.3.3 MEF 79.0.2 Requirements

The requirements from MEF 79.0.2 [8] are shown in .

Requirement	Entity	Tested	Test Case	API Version	Comment

**Table 31 – MEF 79.0.2 Requirements for Create POQ**

*Editor Note 9: Comments on if requirements A2-R13 from MEF 79.0.2 should be included here are requested.*

## 9.4 POQ Creation Test Cases

The test cases for POQ Creation are defined in this section.

### 9.4.1 Create POQ Activity = INSTALL Test Cases

The test cases for creating a POQ with a POQ Activity = INSTALL are defined in this section.

#### 9.4.1.1 Create POQ Activity = INSTALL, Immediate Response Only = FALSE Test Cases

The test cases for creating a POQ with a POQ Activity = INSTALL and Immediate Response Only = FALSE are defined in this section.

[R22] The Buyer and Seller **MUST** complete [Test Case 22] as defined in Table 32.



[Test Case 22] Create POQ with POQ Activity = INSTALL, Immediate Response Only = FALSE, Location Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = FALSE, Provide Alternate = TRUE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = INSTALL, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	
Seller Response	<p>THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.</p>	<p>MEF 79 [6] R40, R41, R42,</p>	

**Table 32 – [Test Case 22]**

[R23]The Buyer and Seller MUST complete [Test Case 23] as defined in Table 34.

[Test Case 23] Create POQ with POQ Activity = INSTALL, Immediate Response Only = FALSE, Location Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = FALSE, Provide Alternate = FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = INSTALL, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	
Seller Response	<p>THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.</p>	<p>MEF 79 [6] R40, R41, R42,</p>	

**Table 33 – [Test Case 23]**

[R24]The Buyer and Seller **MUST** complete [Test Case 24] as shown in Table 34.



[Test Case 24] Create POQ Activity = INSTALL Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, if an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.</p> <p>The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - See [Test Case 22] for Buyer POST details. In addition, the Product Specific Attributes require a Product Relationship.</p> <p>The Buyer request includes Related Product Identifier, Relationship Nature.</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.</p>	MEF 79 [6] R40, R41, R42,	

Table 34 – [Test Case 24]

[R25]The Buyer and Seller **MUST** complete [Test Case 25] as shown in Table 35.

[Test Case 25] Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, if an Alternate Proposal is desired, the Product Offering Identifier, the</p>		



	Product Specific Attributes, and the Related Product Identifier for the POQ Item.  The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.		
Buyer Request	WHEN - See [Test Case 23] for Buyer POST details. In addition, the Product Specific Attributes require a Product Relationship.  The Buyer request includes Related Product Identifier, Relationship Nature.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 35 – [Test Case 25]

[R26]The Buyer and Seller **MUST** complete [Test Case 26] as shown in Table 36.

[Test Case 26] Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an alternate Proposal is required, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.  The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.		
Buyer Request	WHEN - See for Buyer [Test Case 22] for POST details. In addition,		



[Test Case 26] Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	the Product Specific Attribute require a Product Relationship.  The Buyer request includes Related Product Identifier, Relationship Nature.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 36 – [Test Case 26]

[R27]The Buyer and Seller **MUST** complete [Test Case 27] as shown in Table 37.

[Test Case 27] Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an alternate Proposal is not required, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.  The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.		
Buyer Request	WHEN - See for Buyer [Test Case 23] for POST details. In addition, the Product Specific Attribute require a Product Relationship.		



[Test Case 27] Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Buyer request includes Related Product Identifier, Relationship Nature.		
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 37 – [Test Case 27]

[R28] The Buyer and Seller **MUST** complete [Test Case 28] as shown in Table 38.

[Test Case 28] Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, POQ Item Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, two POQ Items, and the Related POQ Item  The Product Offering is supported by the Seller.		
Buyer Request	WHEN - See [Test Case 22] for Buyer POST details. In addition, the Product specific Attributes require a POQ Item Relationship.  The Buyer request includes two POQ Items (to reflect the POQ Item relationship between them), the Related POQ Item Identifier, and Relationship Nature.		



[Test Case 28]Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, POQ Item Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

**Table 38 – [Test Case 28]**

[R29]The Buyer and Seller **MUST** complete [Test Case 29] as shown in Table 46.

[Test Case 29]Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, POQ Item Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, two POQ Items, and the Related POQ Item  The Product Offering is supported by the Seller.		
Buyer Request	WHEN - See [Test Case 23] for Buyer POST details. In addition, the Product specific Attributes require a POQ Item Relationship.  The Buyer request includes two POQ Items (to reflect the POQ Item relationship between them), the Related POQ Item Identifier, and Relationship Nature.		



[Test Case 29]Create POQ POQ Activity = INSTALL Immediate Response Only = FALSE, POQ Item Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 39 – [Test Case 29]

[R30] The Buyer and Seller **MUST** complete [Test Case 30] as shown in Table 40.



[Test Case 30] Create POQ POQ Activity = INSTALL, Immediate Response Only = FALSE, Provide Alternate = TRUE Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date and if an Alternate Proposal is desired.		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only=FALSE, Provide Alternate = TRUE, Expected Response Date, at least one POQ Item and without the Buyer Contact Information.	MEF 79 [6] R27, R28, R29	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Implementation	THEN - the Buyer receives a 422 response from the Seller with a missingProperty error.	MEF 79 [6] R40, R41, R42,	The Seller implementation returns an unsuccessful response

**Table 40 – [Test Case 30]**

**9.4.1.2 Create POQ POQ Activity = INSTALL, Immediate Response Only = TRUE Test Cases**

The test cases for creating a POQ with a POQ Activity = INSTALL and Immediate Response Only = TRUE are defined in this section. POQ Confidence Levels of YELLOW and RED and Alternate Proposals are shown only for Test Cases where the Product Specification requires a Location.

[R31]The Buyer and Seller **MUST** complete [Test Case 31] as shown in Table 41.



[Test Case 31] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = TRUE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = INSTALL, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	



[Test Case 31] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = GREEN, the Installation Interval Unit and Installation Interval Value.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 41 – [Test Case 31]

[R32]The Buyer and Seller **MUST** complete [Test Case 32] as shown in Table 45.

[Test Case 32] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = YELLOW



[Test Case 32] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Offering may be supported by the Seller and the Location is one supported by the Seller. No Alternate Proposals exist.		
Buyer Request	WHEN – see [Test Case 31] for details on the Buyer POST.	MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1- R3, A1-R4, A1-R5	
Seller Response	THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.  The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = YELLOW, the Installation Interval Unit and Installation Interval Value.	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There are no Alternate Proposals available.

Table 42 – [Test Case 32]

[R33]The Buyer and Seller **MUST** complete [Test Case 32] as shown in Table 45.

[Test Case 33] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller UNABLE_TO_PROVIDE State, POQ Confidence Level = RED, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is not supported by the Seller. No Alternate Proposals exist.</p>		The Product Offering is not supported by the Seller resulting in the POQ Confidence Level = RED
Buyer Request	WHEN – see [Test Case 31] for details on the Buyer POST.	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	



[Test Case 33] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller UNABLE_TO_PROVIDE State, POQ Confidence Level = RED, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = RED, the Installation Interval Unit and Installation Interval Value.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There are no Alternate Proposals available.

Table 43 – [Test Case 32]

[R34]The Buyer and Seller **MUST** complete [Test Case 32] as shown in Table 45.

[Test Case 34] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = YELLOW

[Test Case 34] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Offering may be supported by the Seller and the Location is one supported by the Seller. An Alternate Proposal exist.		
Buyer Request	WHEN – see [Test Case 31] for details on the Buyer POST.	MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1- R3, A1-R4, A1-R5	
Seller Response	THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.  The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = YELLOW, the Installation Interval Unit, Installation Interval Value, the Alternate Product Proposal Identifier, Installation Interval Unit, Installation Interval Value, Product Offering Identifier, Product Specific Attributes	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There is an Alternate Proposal available.

**Table 44 – [Test Case 32]**

[R35] The Buyer and Seller **MUST** complete [Test Case 35] as shown in Table 45.

[Test Case 35] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = RED, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is not supported by the Seller. An Alternate Proposal exist.</p>		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = RED
Buyer Request	WHEN – see [Test Case 31] for details on the Buyer POST.	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	



[Test Case 35] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = RED, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = RED, the Alternate Product Proposal Identifier, Installation Interval Unit, Installation Interval Value, Product Offering Identifier, Product Specific Attributes</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There is an Alternate Proposal available.

**Table 45 – [Test Case 35]**

[R36] The Buyer and Seller MUST complete [Test Case 36] as shown in Table 46.

[Test Case 36] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Alternate = TRUE, Seller INSUFFICIENT_INFORMATION_PROVIDED State, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact). A Product Specific Attribute is omitted.		

[Test Case 36] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Alternate = TRUE, Seller INSUFFICIENT_INFORMATION_PROVIDED State, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Offering is supported by the Seller and the Location is one supported by the Seller.		
Buyer Request	WHEN - see Buyer request in [Test Case 31] for details. The Buyer's request is missing a Product Specific Attribute.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = INSUFFICIENT_INFORMATION_PROVIDED, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = INSUFFICIENT_INFORMATION_PROVIDED or ABANDONED.</p>	MEF 79 [6] R43, R44, R45, R47, R48, R50, R51, R52, R53, R54	

**Table 46 – [Test Case 36]**

Note: If POQ State = INSUFFICIENT\_INFORMATION\_PROVIDED then at least one POQ Item State must = INSUFFICIENT\_INFORMATION\_PROVIDED. Other POQ Items have a POQ Item State of ABANDONED.

[R37]The Buyer and Seller **MUST** complete [Test Case 37] as shown in Table 47.



[Test Case 37] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = INSTALL, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	

[Test Case 37] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = GREEN, the Installation Interval Unit and Installation Interval Value.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 47 – [Test Case 37]

[R38]The Buyer and Seller **MUST** complete [Test Case 38] as shown in Table 48.

[Test Case 38] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller READY State, POQ Confidence Level = YELLOW, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering may be supported by the Seller and the Location is one supported by the Seller.</p>		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = YELLOW



[Test Case 38] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller READY State, POQ Confidence Level = YELLOW, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN – see [Test Case 37] for details on the Buyer POST.	MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5	
Seller Response	THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.  The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = YELLOW, the Installation Interval Unit and Installation Interval Value.	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 48 – [Test Case 32]

[R39]The Buyer and Seller **MUST** complete [Test Case 39] as shown in Table 51.



[Test Case 39] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller READY State, POQ Confidence Level = RED, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is not supported by the Seller. No Alternate Proposals exist.</p>		The Product Offering is not supported by the Seller resulting in the POQ Confidence Level = RED
Buyer Request	WHEN – see [Test Case 37] for details on the Buyer POST.	<p>MEF 79 [6] R27, R28, R29, R30, R31, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = RED.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 49 – [Test Case 39]

[R40]The Buyer and Seller MUST complete [Test Case 40] as shown in Table 50.

[Test Case 40] Create POQ with POQ Activity = INSTALL, Immediate Response Only = TRUE, Location Required, Alternate = FALSE, Seller INSUFFICIENT_INFORMATION_PROVIDED State, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact). A Product Specific Attribute is omitted.</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	WHEN - see Buyer request in [Test Case 37] for details. The Buyer's request is missing a Product Specific Attribute.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = INSUFFICIENT_INFORMATION_PROVIDED, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = INSUFFICIENT_INFORMATION_PROVIDED or ABANDONED.</p>	MEF 79 [6] R43, R44, R45, R47, R48, R50, R51, R52, R53, R54	

**Table 50 – [Test Case 40]**

Note: If POQ State = INSUFFICIENT\_INFORMATION\_PROVIDED then at least one POQ Item State must = INSUFFICIENT\_INFORMATION\_PROVIDED. Other POQ Items have a POQ Item State of ABANDONED.

[R41] The Buyer and Seller **MUST** complete [Test Case 41] as shown in Table 51.



[Test Case 41] Create POQ POQ Activity = INSTALL, Immediate Response Only = TRUE negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - The Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location.</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = FALSE, Expected Response Date, at least one POQ Item and is missing the Buyer Contact Information.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = INSTALL, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	MEF 79 [6] R27, R28, R29	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description.



[Test Case 41] Create POQ POQ Activity = INSTALL, Immediate Response Only = TRUE negative case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Implementation	THEN - the Buyer receives a 422 response from the Seller with a missingProperty error.	MEF 79 [6] R40, R41, R42,	The Seller implementation returns an unsuccessful response

Table 51 – [Test Case 41]

#### 9.4.2 Create POQ POQ Activity = CHANGE Test Cases

The test cases for creating a POQ with a POQ Activity = CHANGE are defined in this section.

##### 9.4.2.1 Create POQ with POQ Activity = CHANGE, Immediate Response = FALSE Test Cases

The test cases for creating a POQ with a POQ Activity = CHANGE and Immediate Response Only = FALSE are defined in this section.

[R42] The Buyer and Seller **MUST** complete [Test Case 42] as defined in Table 52.

[Test Case 42] Create POQ with POQ Activity = CHANGE, Immediate Response Only = FALSE, Location Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = FALSE, Provide Alternate = TRUE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.	MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,	



	<p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = CHANGE, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 52 – [Test Case 42]

[R43]The Buyer and Seller MUST complete [Test Case 43] as defined in Table 53.

[Test Case 43]Create POQ with POQ Activity = CHANGE, Immediate Response Only = FALSE, Location Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = FALSE, Provide Alternate = FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.	<p>MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-</p>	



	<p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = CHANGE, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	R3, A1-R4, A1-R5	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 53 – [Test Case 43]

[R44]The Buyer and Seller **MUST** complete [Test Case 44] as shown in Table 54.

[Test Case 44] Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, if an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.</p> <p>The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - See [Test Case 22] for Buyer POST details. In addition, the Product Specific Attributes require a Product Relationship.</p> <p>The Buyer request includes Related Product Identifier, Relationship Nature.</p>		



[Test Case 44] Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 54 – [Test Case 44]

[R45]The Buyer and Seller **MUST** complete [Test Case 45] as shown in **Error! Reference s**  
**ource not found.**

[Test Case 45] Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, if an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.</p> <p>The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - See [Test Case 23] for Buyer POST details. In addition, the Product Specific Attributes require a Product Relationship.</p> <p>The Buyer request includes Related Product Identifier, Relationship Nature.</p>		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating	MEF 79 [6] R40, R41, R42,	



	success and that includes the POQ Identifier.		
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**Table 55 –  
[Test Case**

[R46]The Buyer and Seller **MUST** complete [Test Case 46] as shown in Table 56.

[Test Case 46] Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an alternate Proposal is required, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.</p> <p>The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - See for Buyer [Test Case 22] for POST details. In addition, the Product Specific Attribute require a Product Relationship.</p> <p>The Buyer request includes Related Product Identifier, Relationship Nature.</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.</p>	MEF 79 [6] R40, R41, R42,	

**Table 56 – [Test Case 46]**

[R47]The Buyer and Seller **MUST** complete [Test Case 47] as shown in Table 57.



[Test Case 47] Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, Product Relationship Required, Provide Alternate = FALSE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an alternate Proposal is not required, the Product Offering Identifier, the Product Specific Attributes, and the Related Product Identifier for the POQ Item.  The Product Offering is supported by the Seller and the Related Product Identifier is in the Seller Inventory.		
Buyer Request	WHEN - See for Buyer [Test Case 23] for POST details. In addition, the Product Specific Attribute require a Product Relationship.  The Buyer request includes Related Product Identifier, Relationship Nature.		
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 57 – [Test Case 47]

[R48] The Buyer and Seller **MUST** complete [Test Case 48] as shown in Table 58.

[Test Case 48] Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, POQ Item Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the		



[Test Case 48]Create POQ POQ Activity = CHANGE Immediate Response Only = FALSE, POQ Item Relationship Required, Provide Alternate = TRUE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Product Specific Attributes, two POQ Items, and the Related POQ Item  The Product Offering is supported by the Seller.		
Buyer Request	WHEN - See [Test Case 22]for Buyer POST details. In addition, the Product specific Attributes require a POQ Item Relationship.  The Buyer request includes two POQ Items (to reflect the POQ Item relationship between them), the Related POQ Item Identifier, and Relationship Nature.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 58 – [Test Case 48]

[R49]The Buyer and Seller **MUST** complete [Test Case 49] as shown in Table 59.



[Test Case 49] Create POQ POQ Activity = CHANGE, Immediate Response Only = FALSE, Provide Alternate = TRUE Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date and if an Alternate Proposal is desired.		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only=FALSE, Provide Alternate = TRUE, Expected Response Date, at least one POQ Item and without the Buyer Contact Information.	MEF 79 [6] R27, R28, R29	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Implementation	THEN - the Buyer receives a 422 response from the Seller with a missingProperty error.	MEF 79 [6] R40, R41, R42,	The Seller implementation returns an unsuccessful response

Table 59 – [Test Case 49]

#### 9.4.2.2 Create POQ with POQ Activity = CHANGE and Immediate Response = TRUE Test Cases

The test cases for creating a POQ with a POQ Activity = CHANGE and Immediate Response Only = TRUE are defined in this section. POQ Confidence Levels of YELLOW and RED and Alternate Proposals are shown only for Test Cases where the Product Specification requires a Location.

[R50]The Buyer and Seller **MUST** complete [Test Case 50] as shown in Table 60.





[Test Case 50] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = TRUE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = CHANGE, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	<p>MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	



[Test Case 50] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = GREEN, the Installation Interval Unit and Installation Interval Value.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 60 – [Test Case 50]

[R51]The Buyer and Seller **MUST** complete [Test Case 51] as shown in Table 61.

[Test Case 51] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = YELLOW



	The Product Offering may be supported by the Seller and the Location is one supported by the Seller. No Alternate Proposals exist.		
Buyer Request	WHEN – see [Test Case 31] for details on the Buyer POST.	MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1- R3, A1-R4, A1-R5	
Seller Response	THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.  The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = YELLOW, the Installation Interval Unit and Installation Interval Value.	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There are no Alternate Proposals available.

Table 61 – [Test Case 51]

[R52]The Buyer and Seller **MUST** complete [Test Case 52] as shown in Table 62.

[Test Case 52] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = RED, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the		The Product Offering is not supported by the Seller resulting



[Test Case 52] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = RED, No Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is not supported by the Seller. No Alternate Proposals exist.</p>		in the POQ Confidence Level = RED
Buyer Request	WHEN – see [Test Case 51] for details on the Buyer POST.	<p>MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = RED, the Installation Interval Unit and Installation Interval Value.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There are no Alternate Proposals available.

Table 62 – [Test Case 52]

[R53]The Buyer and Seller **MUST** complete [Test Case 52] as shown in Table 63.

[Test Case 53] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering may be supported by the Seller and the Location is one supported by the Seller. An Alternate Proposal exist.</p>		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = YELLOW
Buyer Request	WHEN – see [Test Case 51] for details on the Buyer POST.	<p>MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	



[Test Case 53] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = YELLOW, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = YELLOW, the Installation Interval Unit, Installation Interval Value, the Alternate Product Proposal Identifier, Installation Interval Unit, Installation Interval Value, Product Offering Identifier, Product Specific Attributes</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There is an Alternate Proposal available.

Table 63 – [Test Case 52]

[R54] The Buyer and Seller **MUST** complete [Test Case 54] as shown in Table 64.

[Test Case 54] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = RED, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = RED



[Test Case 54] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = TRUE, Seller READY State, POQ Confidence Level = RED, Alternate Proposal, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Offering is not supported by the Seller. An Alternate Proposal exist.		
Buyer Request	WHEN – see [Test Case 51] for details on the Buyer POST.	MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1- R3, A1-R4, A1-R5	
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = RED, the Alternate Product Proposal Identifier, Installation Interval Unit, Installation Interval Value, Product Offering Identifier, Product Specific Attributes</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	There is an Alternate Proposal available.

Table 64 – [Test Case 54]

[R55] The Buyer and Seller MUST complete [Test Case 55] as shown in Table 65.

[Test Case 55] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Alternate = TRUE, Seller INSUFFICIENT_INFORMATION_PROVIDED State, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact). A Product Specific Attribute is omitted.</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	WHEN - see Buyer request in [Test Case 51] for details. The Buyer's request is missing a Product Specific Attribute.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = INSUFFICIENT_INFORMATION_PROVIDED, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = INSUFFICIENT_INFORMATION_PROVIDED or ABANDONED.</p>	MEF 79 [6] R43, R44, R45, R47, R48, R50, R51, R52, R53, R54	

Table 65 – [Test Case 55]

Note: If POQ State = INSUFFICIENT\_INFORMATION\_PROVIDED then at least one POQ Item State must = INSUFFICIENT\_INFORMATION\_PROVIDED. Other POQ Items have a POQ Item State of ABANDONED.

[R56]The Buyer and Seller **MUST** complete [Test Case 56] as shown in Table 66.



<p>[Test Case 56] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = CHANGE, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	<p>MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	



[Test Case 56] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller Response includes Seller POQ State = READY, POQ Item State = READY, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = GREEN, the Installation Interval Unit and Installation Interval Value.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 66 – [Test Case 56]

[R57]The Buyer and Seller **MUST** complete [Test Case 57] as shown in Table 67.

[Test Case 57] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller READY State, POQ Confidence Level = YELLOW, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering may be supported by the Seller and the Location is one supported by the Seller.</p>		The Product Offering may be supported by the Seller resulting in the POQ Confidence Level = YELLOW



[Test Case 57] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller READY State, POQ Confidence Level = YELLOW, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN – see [Test Case 56] for details on the Buyer POST.	MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1- R3, A1-R4, A1-R5	
Seller Response	THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.  The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = YELLOW, the Installation Interval Unit and Installation Interval Value.	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 67 – [Test Case 57]

[R58]The Buyer and Seller **MUST** complete [Test Case 58] as shown in Table 68.



[Test Case 58] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Provide Alternate = FALSE, Seller READY State, POQ Confidence Level = RED, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is not supported by the Seller. No Alternate Proposals exist.</p>		The Product Offering is not supported by the Seller resulting in the POQ Confidence Level = RED
Buyer Request	WHEN – see [Test Case 56] for details on the Buyer POST.	<p>MEF 79 [6] R27, R28, R29, R32, R35, R36, R37, R38,</p> <p>MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5</p>	
Seller Response	<p>THEN - The Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = RED.</p>	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 68 – [Test Case 58]

[R59]The Buyer and Seller MUST complete [Test Case 59] as shown in Table 69.

[Test Case 59] Create POQ with POQ Activity = CHANGE, Immediate Response Only = TRUE, Location Required, Alternate = FALSE, Seller INSUFFICIENT_INFORMATION_PROVIDED State, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact). A Product Specific Attribute is omitted.</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	WHEN - see Buyer request in [Test Case 56] for details. The Buyer's request is missing a Product Specific Attribute.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes the POQ Identifier, POQ State = INSUFFICIENT_INFORMATION_PROVIDED, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.</p> <p>The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = INSUFFICIENT_INFORMATION_PROVIDED or ABANDONED.</p>	MEF 79 [6] R43, R44, R45, R47, R48, R50, R51, R52, R53, R54	

**Table 69 – [Test Case 59]**

Note: If POQ State = INSUFFICIENT\_INFORMATION\_PROVIDED then at least one POQ Item State must = INSUFFICIENT\_INFORMATION\_PROVIDED. Other POQ Items have a POQ Item State of ABANDONED.

[R60] The Buyer and Seller **MUST** complete [Test Case 60] as shown in Table 70.



[Test Case 60] Create POQ POQ Activity = CHANGE, Immediate Response Only = TRUE negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - The Buyer determines the Expected Response Date, that an Alternate Proposal is not desired, the Product Offering Identifier, the Product Specific Attributes, and the Location.</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = FALSE, Expected Response Date, at least one POQ Item and is missing the Buyer Contact Information.</p> <p>Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = INSTALL, Product Offering Identifier, and Product Specific Attributes.</p> <p>The Product Specific Attributes require a Location. The request includes POQ Item Location Type, POQ Item Location, and POQ Item Location Contact.</p>	MEF 79 [6] R27, R28, R29	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description.

[Test Case 60] Create POQ POQ Activity = CHANGE, Immediate Response Only = TRUE negative case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Implementation	THEN - the Buyer receives a 422 response from the Seller with a missingProperty error.	MEF 79 [6] R40, R41, R42,	The Seller implementation returns an unsuccessful response

**Table 70 – [Test Case 60]**

### 9.4.3 Create POQ POQ Activity = DISCONNECT Test Cases

The test cases for creating a POQ with a POQ Activity = DISCONNECT are defined in this section.

#### 9.4.3.1 Create POQ POQ Activity = DISCONNECT, Immediate Response = FALSE

The test cases for a Create POQ with a POQ Activity = DISCONNECT and an Immediate Response = FALSE are defined in this section.

[R61] The Buyer and Seller **MUST** complete [Test Case 61] as shown in Table 71 .

[Test Case 61] Create POQ POQ Activity = DISCONNECT Immediate Response Only = FALSE Location Required Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date and the Product Identifier.  The Product exists in the Seller's database.		
Buyer Request	WHEN - The Buyer POSTs a Create POQ request that includes the Immediate Response Only=FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.	MEF 79 [6] R27, R28, R29, R32, R33	



[Test Case 61] Create POQ POQ Activity = DISCONNECT Immediate Response Only = FALSE Location Required Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = DISCONNECT, and Product Identifier.		
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 71 – [Test Case 61]

[R62] The Buyer and Seller MUST complete [Test Case 62] as shown in Table 90

[Test Case 62] Create POQ POQ Activity = DISCONNECT Immediate Response Only = FALSE Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date and the Product Identifier.  The Product exists in the Seller's database.		
Buyer Request	WHEN - The Buyer POSTs a Create POQ request that includes the Immediate Response Only=FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.  Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = DISCONNECT, and Product Identifier.	MEF 79 [6] R27, R28, R29, R32, R33	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier.	MEF 79 [6] R40, R41, R42,	

Table 72 – [Test Case 62]

[R63] The Buyer and Seller MUST complete [Test Case 63] as shown in Table 91.



[Test Case 63] Create POQ POQ Activity = DISCONNECT, Immediate Response Only = FALSE Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date and the Product Identifier.  The Product exists in the Seller's database.		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only=FALSE, Expected Response Date, at least one POQ Item and is missing the Buyer Contact Information.  Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = DISCONNECT, and Product Identifier.	MEF 79 [6] R27, R28, R29	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating a missingProperty error.	MEF 79 [6] R40, R41, R42,	

Table 73 – [Test Case 63]

#### 9.4.3.2 Create POQ with POQ Activity = DISCONNECT, Immediate Response = TRUE

The test cases for a Create POQ with a POQ Activity = DISCONNECT and an Immediate Response = TRUE are defined in this section.

[R64] The Buyer and Seller **MUST** complete [Test Case 64] as shown in Table 74.



[Test Case 64] Create POQ with POQ Activity = DISCONNECT, Immediate Response Only = TRUE, Seller READY State, POQ Confidence Level = GREEN, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Expected Response Date, the Product Identifier,  The Product exists in the Seller inventory.		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = FALSE, Expected Response Date, Buyer Contact Information, and at least one POQ Item.  Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = DISCONNECT, and Product Identifier.	MEF 79 [6] R27, R28, R29, R32, R33, R35, R36, R37, R38,  MEF 79.0.1 [7] A1-R1, A1-R2, A1-R3, A1-R4, A1-R5	
Seller Response	THEN - The Buyer receives a 200 response from the Seller indicating success and that includes the POQ Identifier, POQ State = READY, Seller Contact Information, and Product Offering Qualification Item attributes per Product Offering Qualification Item Identifier.  The Product Offering Qualification Item attributes include Product Offering Qualification Item Identifier, POQ Item State = READY, POQ Confidence Level = GREEN, the Installation Interval Unit and Installation Interval Value.	MEF 79 [6] R43, R44, R45, R46, R48, R50, R51, R52, R55, R56, O6, R57	

Table 74 – [Test Case 64]

[R65]The Buyer and Seller **MUST** complete [Test Case 65] as shown in Table 75.



[Test Case 65] Create POQ POQ Activity = DISCONNECT, Immediate Response Only = TRUE negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - The Buyer determines the Expected Response Date and the Product Identifier.  The Product exists in the Seller inventory.		
Buyer Request	WHEN - the Buyer POSTs a Create POQ request that includes the Immediate Response Only = TRUE, Provide Alternate = FALSE, Expected Response Date, at least one POQ Item and is missing the Buyer Contact Information.  Each POQ Item includes Product Offering Qualification Item Identifier, POQ Activity = DISCONNECT, and Product Identifier.	MEF 79 [6] R27, R28, R29	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating a missingProperty error.	MEF 79 [6] R40, R41, R42,	

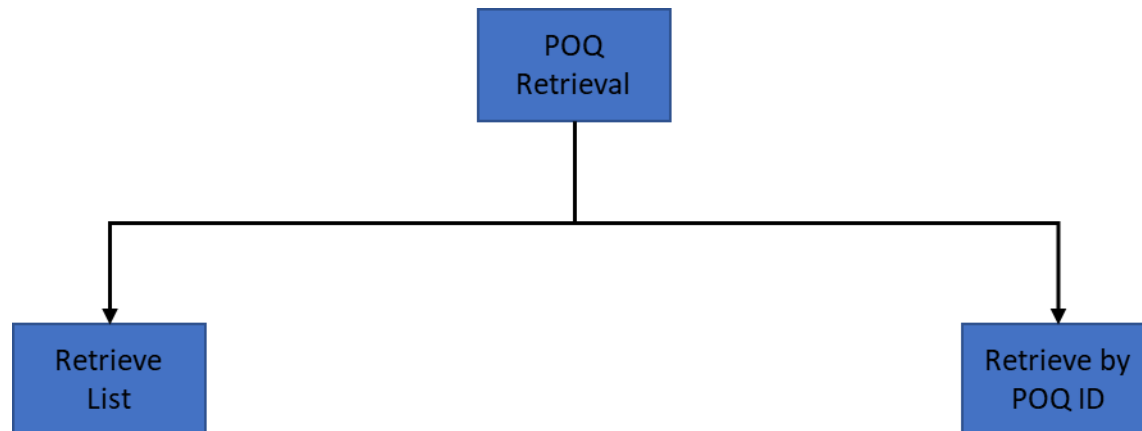
Table 75 – [Test Case 65]

## 10 Product Offering Qualification Retrieval

The POQ Retrieval test requirements and test cases are defined in this section.

### 10.1 POQ Retrieval API Overview

An overview of the POQ Retrieve API is shown in Figure 12.



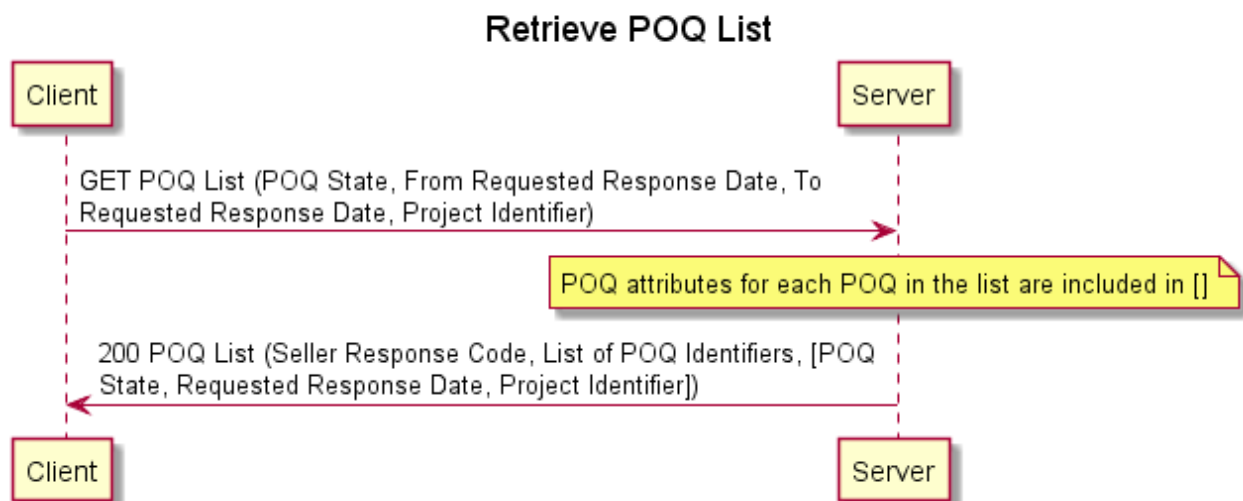
**Figure 12 – POQ Retrieval API Overview**

### 10.2 POQ Retrieval Sequence Diagrams

The sequence diagrams for POQ Retrieval are shown in the following sections.

#### 10.2.1 Retrieve POQ List Sequence Diagram

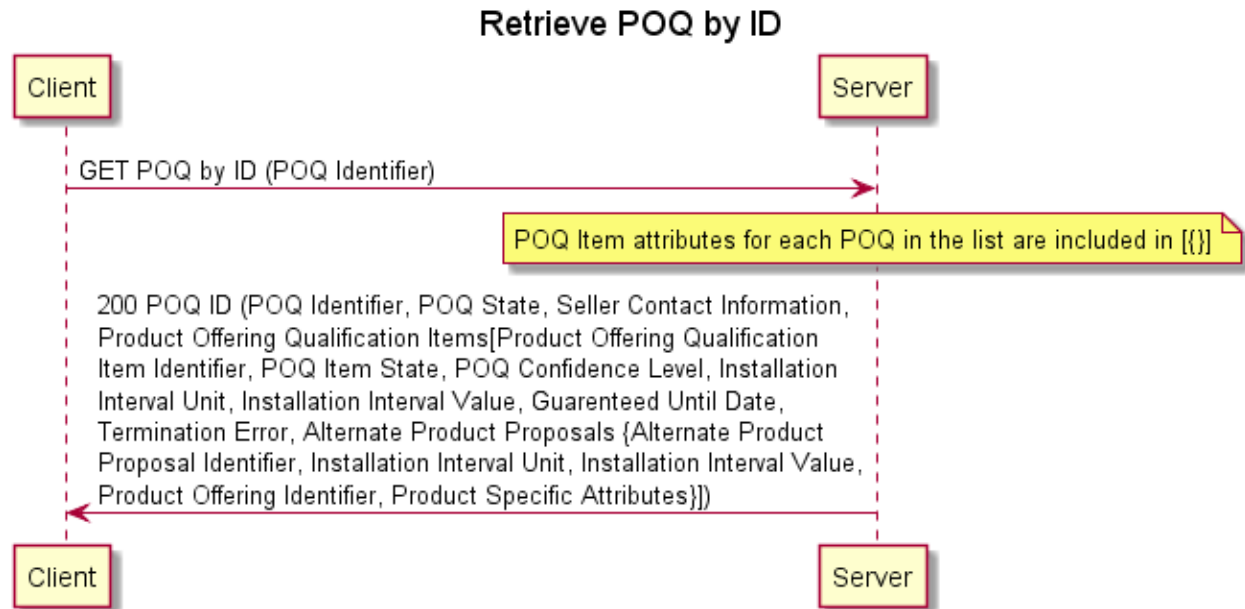
The sequence diagram for Retrieve POQ List is shown in Figure 13.



**Figure 13 – Retrieve POQ List Sequence Diagram**

### 10.2.2 Retrieve POQ by ID Sequence Diagram

The sequence diagram for Retrieve POQ by ID is shown in Figure 14.



**Figure 14 – Retrieve POQ by ID**

### 10.3 MEF 79, MEF 79.0.1, and MEF 79.0.2 Requirements

All Retrieve POQ requirements from MEF 79 [6], MEF 79.0.1 [7] and MEF 79.0.2 [8] are shown in the following tables.

#### 10.3.1 MEF 79 Requirements

The requirements from MEF 79 [6] that address a Retrieve POQ List request are shown in Table 76.

Requirement	Entity	Tested	Test Case	Comment
O7	B	Y	[Test Case 66] [Test Case 67] [Test Case 68] [Test Case 69] [Test Case 70] [Test Case 71] [Test Case 72] [Test Case 73] [Test Case 74]	Specifies what can be used as filter criteria for Retrieve POQ List.
R60	S	Y	[Test Case 66] [Test Case 67]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 68] [Test Case 69] [Test Case 70] [Test Case 71] [Test Case 72] [Test Case 73] [Test Case 74]	
R61	S	Y	[Test Case 66] [Test Case 67] [Test Case 68] [Test Case 69] [Test Case 70] [Test Case 71] [Test Case 72] [Test Case 73] [Test Case 74]	
R62	S	Y	[Test Case 66] [Test Case 67] [Test Case 68] [Test Case 69] [Test Case 70] [Test Case 71] [Test Case 72] [Test Case 73] [Test Case 74]	
R63	S	Y	[Test Case 66] [Test Case 67] [Test Case 68] [Test Case 69] [Test Case 70] [Test Case 71] [Test Case 72] [Test Case 73] [Test Case 74]	

**Table 76 – MEF 79 Requirements for Retrieve POQ LIST**

The requirements from MEF 79 [6] that address a Retrieve POQ by Identifier request are shown in Table 77.

Requirement	Entity	Tested	Test Case	Comment
R64	B	Y	[Test Case 75] [Test Case 76]	
R65	S	Y	[Test Case 75] [Test Case 76]	



Requirement	Entity	Tested	Test Case	Comment
R66	S	Y	[Test Case 75] [Test Case 76]	
R67	S	Y	[Test Case 75] [Test Case 76]	
R68	S	Y	[Test Case 75] [Test Case 76]	POQ State = READY
R69	S	Y	[Test Case 75] [Test Case 76]	POQ State = INSUFFICIENT_INFORMATION_PROVIDED
R70	S	Y	[Test Case 75] [Test Case 76]	POQ State = IN_PROGRESS, READY
R71	S	Y	[Test Case 75] [Test Case 76]	POQ State = UNABLE_TO_PROVIDE
R72	S	Y	[Test Case 75] [Test Case 76]	
R73	S	Y	[Test Case 75] [Test Case 76]	Does not indicate success
R74	S	Y	[Test Case 75] [Test Case 76]	
R75	S	Y	[Test Case 75] [Test Case 76]	
R76	S	Y	[Test Case 75] [Test Case 76]	POQ Item State = INSUFFICIENT_INFORMATION_PROVIDED
R77	S	Y	[Test Case 75] [Test Case 76]	Termination Error when POQ Item State = INSUFFICIENT_INFORMATION_PROVIDED
R78	S	Y	[Test Case 75] [Test Case 76]	POQ Item State = READY
R79	S	Y	[Test Case 75] [Test Case 76]	POQ Item State = READY state POQ Confidence Level is GREEN or YELLOW
O8	S	N		
<del>O9</del>	<del>S</del>	<del>Y</del>		<del>POQ Item State = IN_PROGRESS or ABANDONED</del> Deleted in MEF 79.0.2 [8]
O10	S	Y	[Test Case 75] [Test Case 76]	POQ Item State = READY, POQ Confidence level is YELLOW or RED may provide Alternate Proposal This is tested even though it is an optional requirement

Table 77 – MEF 79 Requirements for Retrieve POQ by Identifier



Note: R68 and R79 reference MEF 79 section 8.4.3.1 which includes the following requirements R50, R51, R52, R53, R54, R55, R56, O5, O6, and R57. The Seller Retrieve POQ by Identifier must include the attributes defined in these requirements.

### 10.3.2 MEF 79.0.1 Requirements

There are no requirements within MEF 79.0.1 [7] that address Retrieve POQ List or Retrieve POQ by Identifier.

### 10.3.3 MEF 79.0.2 Requirements

There are no applicable requirements from MEF 79.0.2 [8] that address Retrieve POQ List.

The requirements from MEF 79.0.2 [8] that address Retrieve POQ by Identifier are shown in Table 78.

Requirement	Entity	Tested	Test Case	Comment
A2-R7	S	Y	[Test Case 66] [Test Case 67] [Test Case 68]	POQ Item State = IN_PROGRESS or ABANDONED state

**Table 78 – MEF 79.0.2 Requirements for Retrieve POQ by Identifier**

## 10.4 POQ Retrieval Test Cases

The test cases for retrieving a POQ List are defined in this section.

### 10.4.1 Retrieve POQ List

The test cases for retrieving a POQ are defined in this section.

Note: The API supports three headers that are used to indicate if the list exceeds the number of POQ Identifiers supported by the Seller (X-Pagination-Throttled), the number of POQ Identifiers included in the list (X-Result-Count), and the total number of POQ Identifiers that match the filter criteria (X-Total-Count).

#### 10.4.1.1 Retrieve POQ List State Filter Criteria

The test cases for retrieving a POQ List using the POQ State as filter criteria are defined in this section.

[R66] The Buyer and Seller **MUST** complete [Test Case 66] as shown in Table 79.



[Test Case 66] Retrieve POQ List, Filter Criteria = [POQ State], Positive Case, Results Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – The Buyer desires to retrieve a list of POQs with a given POQ State.</p> <p>There are POQs in the Seller’s system with the given POQ State that are assigned to the Buyer.</p>		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [POQ State]	<p>MEF 79 [6] O7</p> <p>MEF 79.0.2 [8] A2-R7</p>	Possible POQ States = IN_PROGRESS, READY, UNABLE_TO_PROVIDE, INSUFFICIENT_INFORMATION_PROVIDED
Seller Response	THEN – The Buyer receives a 200 response with a list of POQ Identifiers and the POQ State for each POQ Identifier.	R60, R61, R62, R63	

**Table 79 – [Test Case 66]**

[R67]The Buyer and Seller **MUST** complete [Test Case 67] as shown in Table 96.

[Test Case 67] Retrieve POQ List, Filter Criteria = [POQ State], Positive Case, Empty List Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – The Buyer desires to retrieve a list of POQs with a given POQ State.</p> <p>There are no POQs in the Seller’s system with the given POQ State that are assigned to the Buyer.</p>		



[Test Case 67] Retrieve POQ List, Filter Criteria = [POQ State], Positive Case, Empty List Returned			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [POQ State]	MEF 79 [6] O7  MEF 79.0.2 [8] A2-R7	Possible POQ States = IN_PROGRESS, READY, UNABLE_TO_PROVIDE, INSUFFICIENT_INFORMATION_PROVIDED
Seller Response	THEN – The Buyer receives a 200 response with an empty list.	R60, R61, R62, R63	

Table 80 – [Test Case 67]

[R68]The Buyer and Seller **MUST** complete [Test Case 68] as shown in Table 81.

[Test Case 68] Retrieve POQ List, Filter Criteria = [POQ State], Negative Case,			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve a list of POQs with a given POQ State.  There are POQs in the Seller’s system with the given POQ State that are assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [POQ State] that contains a POQ State other than the listed valid states.	MEF 79 [6] O7  MEF 79.0.2 [8] A2-R7	Possible POQ States = IN_PROGRESS, READY, UNABLE_TO_PROVIDE, INSUFFICIENT_INFORMATION_PROVIDED

[Test Case 68] Retrieve POQ List, Filter Criteria = [POQ State], Negative Case,			
Entity	TC Step Description	Verified Requirements	Comments
Validating Buyer Implementation	THEN – The Buyer receives no response.		The Buyer implementation prevents the GET from being sent.
Validating Seller Implementation	THEN – The Buyer receives a 400 response indicating a Bad Request.	R60, R61, R62, R63	

**Table 81 – [Test Case 68]**
**10.4.1.2 Retrieve POQ List Date Range Filter Criteria**

The test cases for retrieving a POQ List using a From Requested Response Date and To Requested Response Date as a filter criterion are defined in this section.

[R69]The Buyer and Seller **MUST** complete [Test Case 69] as shown in Table 82.

[Test Case 69] Retrieve POQ List, Filter Criteria = [From Requested Response Date, To Requested Response Date], Positive Case, Results Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – The Buyer desires to retrieve a list of POQs with a given range of Requested Response dates.</p> <p>There are POQs in the Seller's system fall within the given From and To Requested Response Dates that are assigned to the Buyer.</p>		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [From Requested Response Date] [To Requested Response Date]	O7	

Seller Response	THEN – The Buyer receives a 200 response with a list of POQ Identifiers and the POQ State for each POQ Identifier which matches the filter criteria.	R60, R61, R62, R63	
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**Table 82 – [Test Case 69]**

[R70]The Buyer and Seller **MUST** complete [Test Case 70] as shown in Table 83.

[Test Case 70] Retrieve POQ List, Filter Criteria = [From Requested Response Date, To Requested Response Date], Positive Case, Empty List Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve a list of POQs with a given range of Requested Response dates.  There are no POQs in the Seller's system that fall within the given From Requested Response Date and To Requested Response Date that are assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [From Requested Response Date] [To Requested Response Date]	O7	
Seller Response	THEN – The Buyer receives a 200 response with an empty list.	R60, R61, R62, R63	

**Table 83 – [Test Case 70]**

[R71]The Buyer and Seller **MUST** complete [Test Case 71] as shown in Table 84

[Test Case 71] Retrieve POQ List, Filter Criteria = [From Requested Response Date, To Requested Response Date], Negative Case,			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve a list of POQs with a given range of Requested Response dates.		

[Test Case 71] Retrieve POQ List, Filter Criteria = [From Requested Response Date, To Requested Response Date], Negative Case,			
Entity	TC Step Description	Verified Requirements	Comments
	There are POQs in the Seller's system fall within the given From and To Requested Response Dates that are assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [From Requested Response Date] [To Requested Response Date] with a To Requested Response Date that is missing the year.	O7	
Validating Buyer Implementation	THEN – The Buyer receives no response.		The Buyer implementation prevents the GET from being sent.
Validating Seller Implementation	THEN – The Buyer receives a 400 response indicating a Bad Request.	R60, R61, R62, R63	

**Table 84 – [Test Case 71]**
**10.4.1.3 Retrieve POQ List Project Identifier Filter Criteria**

The test cases for retrieving a POQ List using a Project Identifier as a filter criterion are defined in this section.

[R72]The Buyer and Seller **MUST** complete [Test Case 72] as shown in Table 85.

[Test Case 72] Retrieve POQ List, Filter Criteria = [Project Identifier], Positive Case, Results Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve a list of POQs with a given Project Identifier.		

[Test Case 72] Retrieve POQ List, Filter Criteria = [Project Identifier], Positive Case, Results Returned			
Entity	TC Step Description	Verified Requirements	Comments
	There are POQs in the Seller's system with the given Project Identifier that are assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [Project Identifier]	O7	
Seller Response	THEN – The Buyer receives a 200 response with a list of POQ Identifiers and the POQ State for each POQ Identifier which matches the filter criteria.	R60, R61, R62, R63	

**Table 85 – [Test Case 72]**

[R73]The Buyer and Seller **MUST** complete [Test Case 73] as shown in Table 86.

[Test Case 73] Retrieve POQ List, Filter Criteria = [Project Identifier], Positive Case, Empty List Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve a list of POQs with a given Project Identifier.  There are no POQs in the Seller's system with the given Project Identifier that are assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [Project Identifier]	O7	
Seller Response	THEN – The Buyer receives a 200 response with an empty list.	R60, R61, R62, R63	

**Table 86 – [Test Case 73]**

[R74]The Buyer and Seller **MUST** complete [Test Case 74] as shown in Table 87.

[Test Case 74] Retrieve POQ List, Filter Criteria = [Project Identifier], Negative Case,			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – The Buyer desires to retrieve a list of POQs with a given Project Identifier.</p> <p>There are POQs in the Seller’s system with the given Project Identifier that are assigned to the Buyer.</p>		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = Project Identifier with an incorrect Project Identifier format.	O7	
Validating Buyer Implementation	THEN – The Buyer receives no response.		The Buyer implementation prevents the GET from being sent.
Validating Seller Implementation	THEN – The Buyer receives a 400 response indicating a Bad Request.	R60, R61, R62, R63	

Table 87 – [Test Case 74]

#### 10.4.2 Retrieve POQ by Identifier Test Cases

The Retrieve POQ by Identifier test cases are shown in the following sections.

##### 10.4.2.1 Retrieve POQ by Identifier Test Cases

[R75]The Buyer and Seller **MUST** complete [Test Case 75] as shown in Table 88.

[Test Case 75] Retrieve POQ by Identifier, Positive Case, Results Returned			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve details on a given POQ Identifier.		

[Test Case 75] Retrieve POQ by Identifier, Positive Case, Results Returned			
Entity	TC Step Description	Verified Requirements	Comments
	The POQ Identifier exists in the Seller's system and is assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = [POQ Identifier]	R64	
Seller Response	THEN – The Buyer receives a 200 response with the details for the POQ Identifier specified in the GET.	R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, O10	

Table 88 – [Test Case 75]

[R76]The Buyer and Seller **MUST** complete [Test Case 76] as shown in Table 89.

[Test Case 76] Retrieve POQ by Identifier, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – The Buyer desires to retrieve a list of POQs with a given Project Identifier.  There are POQs in the Seller's system with the given POQ Identifier, but they are not assigned to the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Offering Qualification with filter criteria = POQ Identifier with a POQ Identifier that is not assigned to the Buyer.	R64	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by



[Test Case 76] Retrieve POQ by Identifier, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
			their implementation since it is incorrect per API description
Validating Seller Implementation	THEN – The Buyer receives a 404 response indicating Not Found.	R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, O10	

**Table 89 – [Test Case 76]**

## 11 Product Offering Qualification Notification

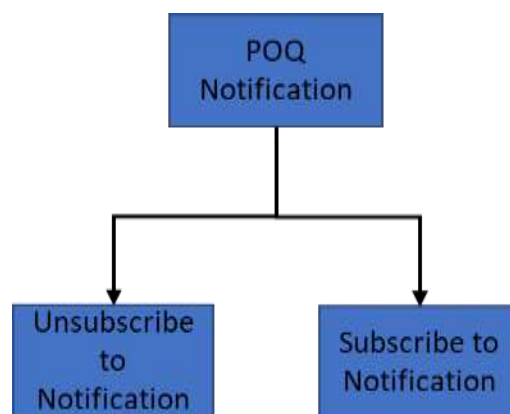
The POQ Notification test requirements and test cases are defined in this section.

### 11.1 POQ Notification API Overview

There are two APIs involved in POQ Notification. Registration for Notifications is included in the Product Offering Qualification Management API. Generation of Notifications is included in the Product Offering Qualification Notification API.

#### 11.1.1 Register for POQ Notification

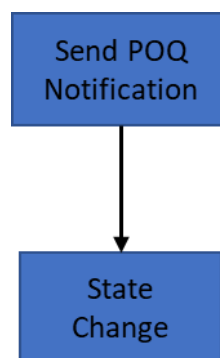
The portion of the Product Offering Qualification Management API that addresses registration for notifications is shown below.



**Figure 15 – Register for POQ Notifications API Overview**

#### 11.1.2 Send POQ Notification

An overview of the POQ Notification API is shown in Figure 16.



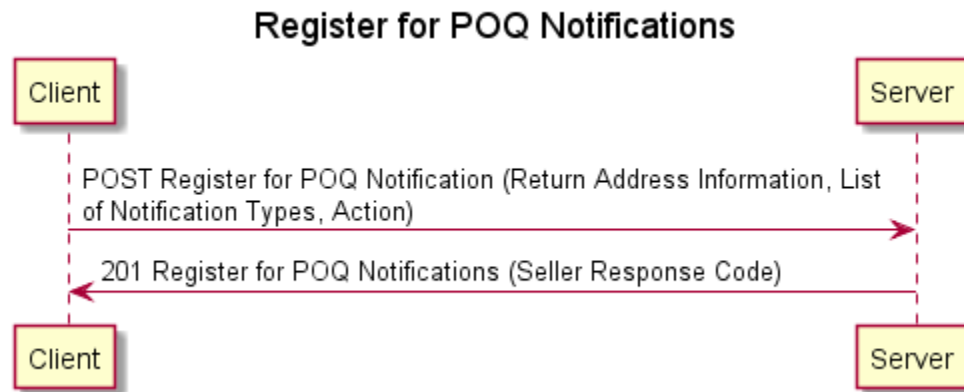
**Figure 16 – POQ Notification API Overview**

### 11.2 Product Offering Qualification Notification Sequence Diagrams

The sequence diagrams for Product Offering Qualification Notification are shown in the following sections.

### 11.2.1 Register for POQ Notifications

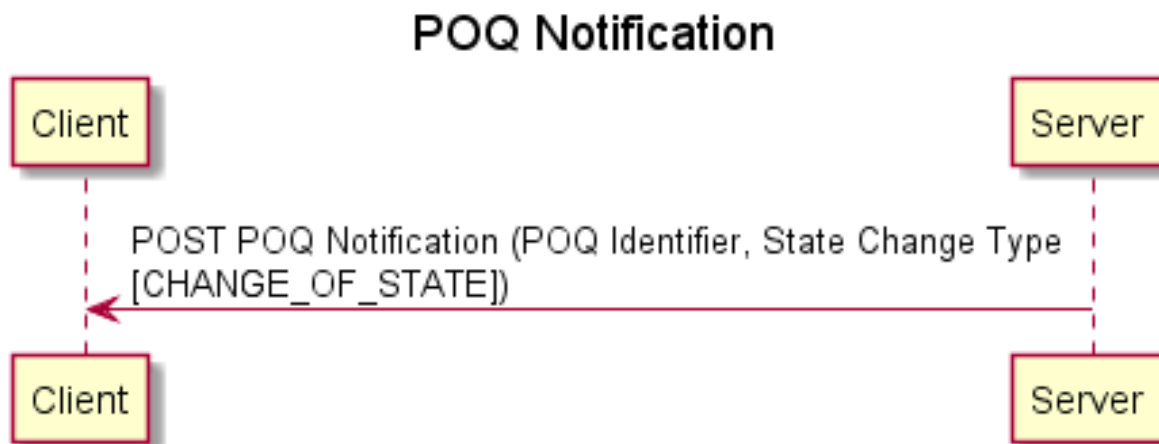
The sequence diagram for Register for POQ Notifications is shown in Figure 17.



**Figure 17 – Register for POQ Notifications Sequence Diagram**

### 11.2.2 POQ State Change Notification Sequence Diagram

The sequence diagram for POQ Notification is shown in Figure 18.



**Figure 18 – POQ Notification**

## 11.3 MEF 79, MEF 79.0.1, and MEF 79.0.2 Requirements

All POQ Notification requirements from MEF 79 [6], MEF 79.0.1 [7] and MEF 79.0.2 [8] are shown in the following tables.

### 11.3.1 MEF 79 Requirements

The requirements from MEF 79 [6] that address a Register for POQ Notifications request are shown in Table 90.

Requirement	Entity	Tested	Test Case	Comment
R25	B	Y	[Test Case 77] [Test Case 78] [Test Case 79] [Test Case 80] [Test Case 81]	Tested per Notification Type, START, STOP
R26	S	Y	[Test Case 77] [Test Case 78] [Test Case 79] [Test Case 80] [Test Case 81]	

**Table 90 – MEF 79 Requirements for POQ Notification Registration**

The requirements from MEF 79 [6] that address a Seller sending a POQ State Change Notification are shown in Table 91.

Requirement	Entity	Tested	Test Case	Comment
R58	S	N		This requirement is not an API behavior requirement, instead it specifies how the Seller's systems should behave. Therefore, it is not tested as a part of API validation
R59	S	Y	[Test Case 82] [Test Case 83] [Test Case 84]	CREATE and CHANGE. CHANGE should cover each POQ State.

**Table 91 – MEF 79 Requirements for POQ State Change Notification**

### 11.3.2 MEF 79.0.1 Requirements

There are no requirements within MEF 79.0.1 [7] that address POQ Notification.

### 11.3.3 MEF 79.0.2 Requirements

There are no applicable requirements from MEF 79.0.2 [8] that address POQ Notification.

## 11.4 POQ Notification Test Cases

### 11.4.1 Register for POQ Notifications Request Test Cases

The test cases for Register for POQ Notification test cases are shown in this section.

[R77] The Buyer and Seller **MUST** complete [Test Case 77] as shown in Table 92.

[Test Case 77] Register for POQ Notifications Request Action = START Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Return Address Information.  The Seller supports POQ notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for POQ Notification Request that contains the Return Address Information and Action = START.	MEF 79 [6] R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 79 [6] R26	

**Table 92 – [Test Case 77]**

Note: if the Buyer does not include a Notification Type in the POST, they register for both CREATE and POQ\_STATE\_CHANGE notifications.

[R78] The Buyer and Seller **MUST** complete [Test Case 78] as shown in Table 93.

[Test Case 78] Register for POQ Notifications Request Action = START Notification Type = POQ_STATE_CHANGE Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Return Address Information.  The Seller supports POQ notifications.		

[Test Case 78] Register for POQ Notifications Request Action = START Notification Type = POQ_STATE_CHANGE Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN - the Buyer POSTs a Register for POQ Notification Request that contains the Return Address Information, Action = START, and Notification Type = POQ_STATE_CHANGE.	MEF 79 [6] R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 79 [6] R26	

**Table 93 – [Test Case 78]**

[R79] The Buyer and Seller **MUST** complete [Test Case 79] as shown in Table 94.

[Test Case 79] Register for POQ Notifications Request Action = STOP Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Return Address Information.  The Seller supports POQ notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for POQ Notification Request that contains the Return Address Information and Action = STOP.	MEF 79 [6] R25	
Seller Response	THEN - the Buyer receives a 204 response from the Seller indicating success.	MEF 79 [6] R26	

**Table 94 – [Test Case 79]**

Note: if the Buyer does not include a Notification Type in the POST, they unregister for both CREATE and POQ\_STATE\_CHANGE notifications.

[R80]The Buyer and Seller **MUST** complete [Test Case 80] as shown in Table 95.



[Test Case 80] Register for POQ Notifications Request Action = STOP Notification Type = POQ_STATE_CHANGE Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Return Address Information.  The Seller supports POQ notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for POQ Notification Request that contains the Return Address Information, Action = STOP, and Notification Type = POQ_STATE_CHANGE.	MEF 79 [6] R25	
Seller Response	THEN - the Buyer receives a 204 response from the Seller indicating success.	MEF 79 [6] R26	

Table 95 – [Test Case 80]

[R81] The Buyer and Seller **MUST** complete [Test Case 81] as shown in Table 96.

[Test Case 81] Register for POQ Notifications Request Negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Return Address Information.  The Seller supports POQ notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for POQ Notification Request that contains the Return Address Information and no Action.	MEF 79 [6] R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by

[Test Case 81] Register for POQ Notifications Request Negative case			
Entity	TC Step Description	Verified Requirements	Comments
			their implementation since it is incorrect per API description
Seller Response	THEN - The Buyer receives a 400 response code indicating a bad request.	MEF 79 [6] R26	

Table 96 – [Test Case 81]

#### 11.4.2 POQ State Change Notification Test Case

The test case for the Seller generating a POQ Notification to the Buyer when the Buyer has registered for notifications is defined in this section.

[R82] The Buyer and Seller **MUST** complete [Test Case 82] as shown in Table 97.

[Test Case 82] Seller Generate POQ_STATE_CHANGE Notification case, READY State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for POQ_STATE_CHANGE Notification Type. The Buyer has POSTed a Create POQ request as described in [Test Case 22].</p> <p>The Buyer has received a 200 response from the Seller for the Create POQ request.</p> <p>The Seller is processing the POQ and the state of the POQ changes from IN_PROGRESS to READY.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the POQ State changes from IN_PROGRESS to READY	MEF 79 [6] R58, R59	





[Test Case 82] Seller Generate POQ_STATE_CHANGE Notification case, READY State			
Entity	TC Step Description	Verified Requirements	Comments
	the Seller generates a POQ Notification that includes the POQ ID and Notification Type of POQ_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.		
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

Table 97 – [Test Case 82]

After completing [Test Case 82], a Retrieve POQ by ID is performed to ensure that the POQ State has changed appropriately to READY. This is described in [Test Case 75].

[R83]The Buyer and Seller **MUST** complete [Test Case 83] as shown in Table 98.

[Test Case 83] Seller Generate POQ_STATE_CHANGE Notification case, INSUFFICIENT_INFORMATION_PROVIDED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for POQ_STATE_CHANGE Notification Type. The Buyer has POSTed a Create POQ request that is defined as follows:</p> <p>Create POQ with POQ Activity = INSTALL, Immediate Response Only = FALSE, Alternate = TRUE, Expected Response Date, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact). A Product Specific Attribute is omitted.</p>		

[Test Case 83] Seller Generate POQ_STATE_CHANGE Notification case, INSUFFICIENT_INFORMATION_PROVIDED State			
Entity	TC Step Description	Verified Requirements	Comments
	<p>The Buyer has received a 201 response from the Seller for the Create POQ request.</p> <p>The Seller is processing the POQ and the state of the POQ changes from IN_PROGRESS to INSUFFICIENT_INFORMATION_PROVIDED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the POQ State changes from IN_PROGRESS to INSUFFICIENT_INFORMATION_PROVIDED the Seller generates a POQ Notification that includes the POQ ID and Notification Type of POQ_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 79 [6] R58, R59	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 98 – [Test Case 83]**

After completing [Test Case 83], a Retrieve POQ by ID is performed to ensure that the POQ State has changed appropriately to INSUFFICIENT\_INFORMATION\_PROVIDED. This is described in [Test Case 75].

[R84]The Buyer and Seller **MUST** complete [Test Case 84] as shown in Table 99.



[Test Case 84] Seller Generate POQ_STATE_CHANGE Notification case, UNABLE_TO_PROVIDE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for POQ_STATE_CHANGE Notification Type. The Buyer has POSTed a Create POQ request as shown.</p> <p>Create POQ with POQ Activity = INSTALL, Immediate Response Only = FALSE, Alternate = FALSE, Expected Response Date, the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is not supported by the Seller. No Alternate Proposals exist.</p> <p>The Buyer has received a 201 response from the Seller for the Create POQ request.</p> <p>The Seller is processing the POQ and the state of the POQ changes from IN_PROGRESS to UNABLE_TO_PROVIDE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the POQ State changes from IN_PROGRESS to UNABLE_TO_PROVIDE the Seller generates a POQ Notification that includes the POQ ID and Notification Type of POQ_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 79 [6] R58, R59	

[Test Case 84] Seller Generate POQ_STATE_CHANGE Notification case, UNABLE_TO_PROVIDE State			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 99 – [Test Case 84]**

After completing [Test Case 84] a Retrieve POQ by ID is performed to ensure that the POQ State has changed appropriately to UNABLE\_TO\_PROVIDE. This is described in [Test Case 75].

*Editor Note 10: Comments on if negative test case is required and if required what it should do is required.*

## 12 Quote Creation

The Quote Creation test requirements and test cases are defined in this section.

### 12.1 Quote API Overview

An overview of the Quote API is provided in Figure 19

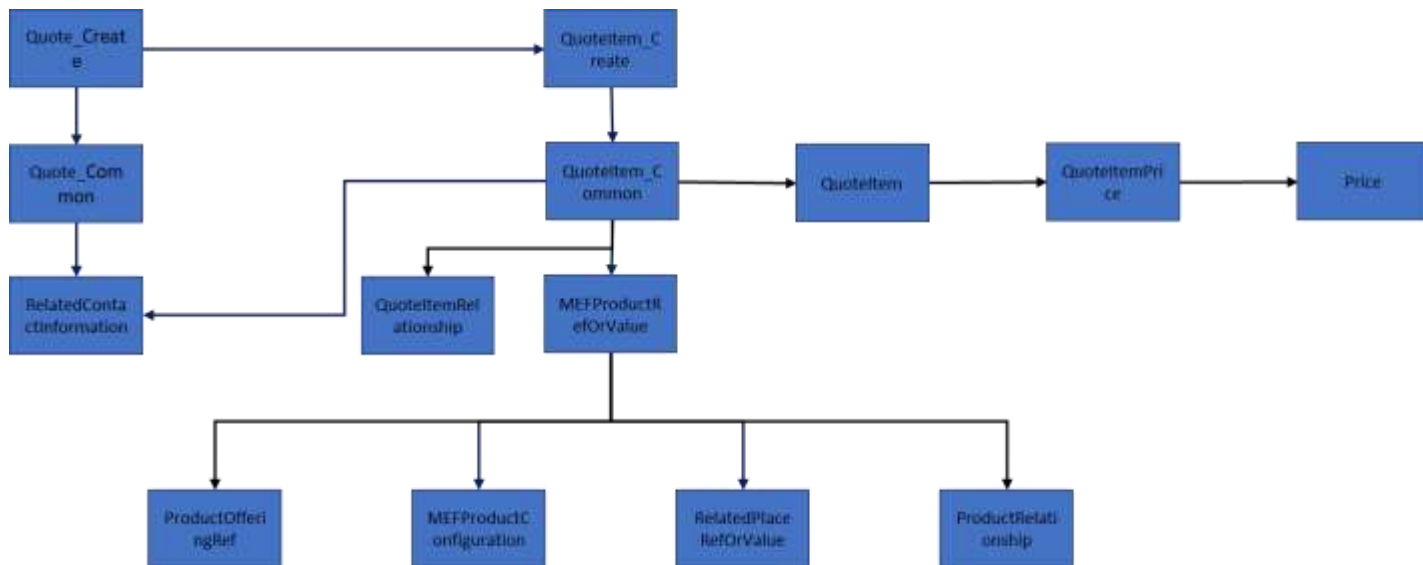
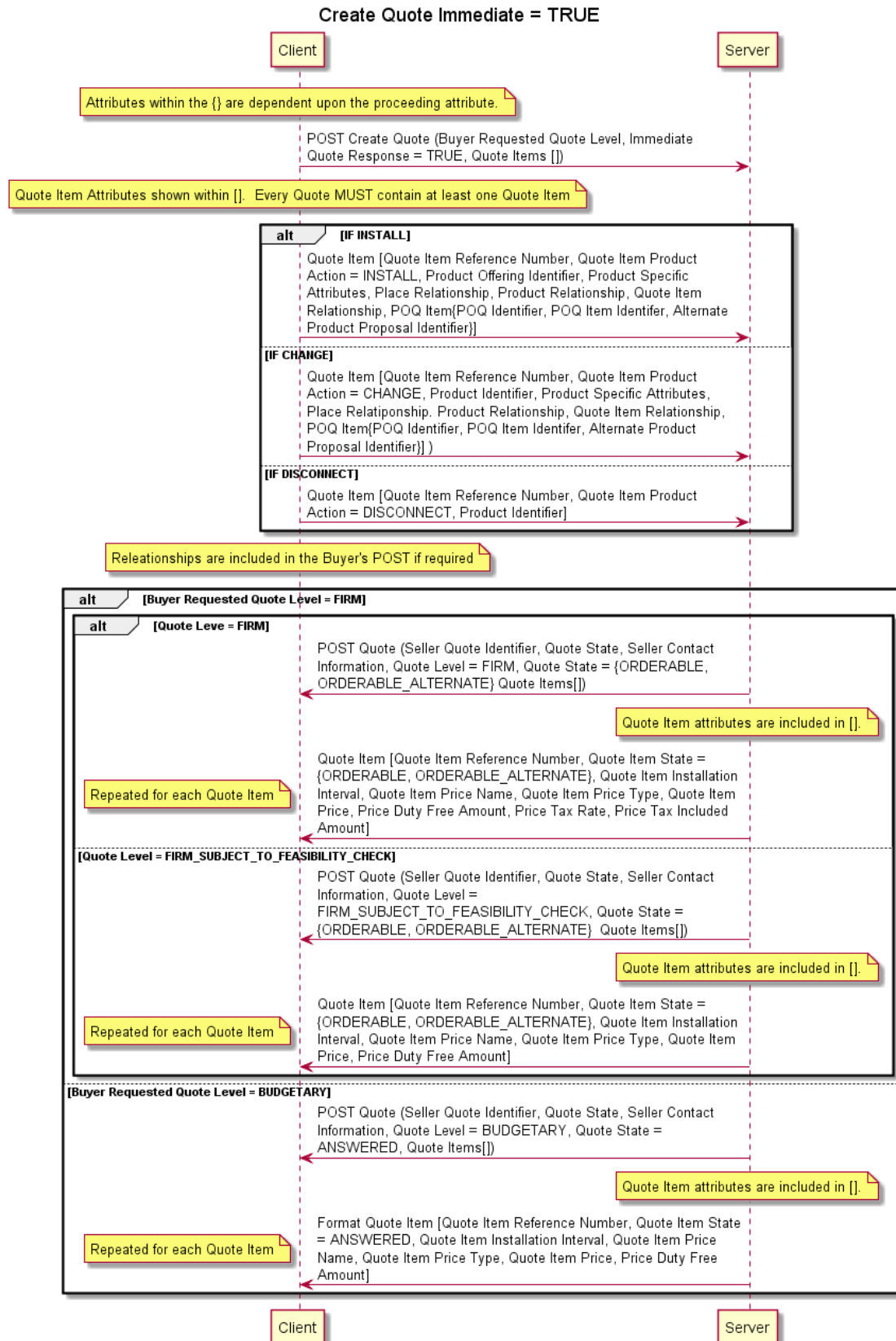


Figure 19 – Quote API Overview

### 12.2 Create Quote Sequence Diagram

#### 12.2.1 Quote Create with Immediate Response = TRUE Sequence Diagram

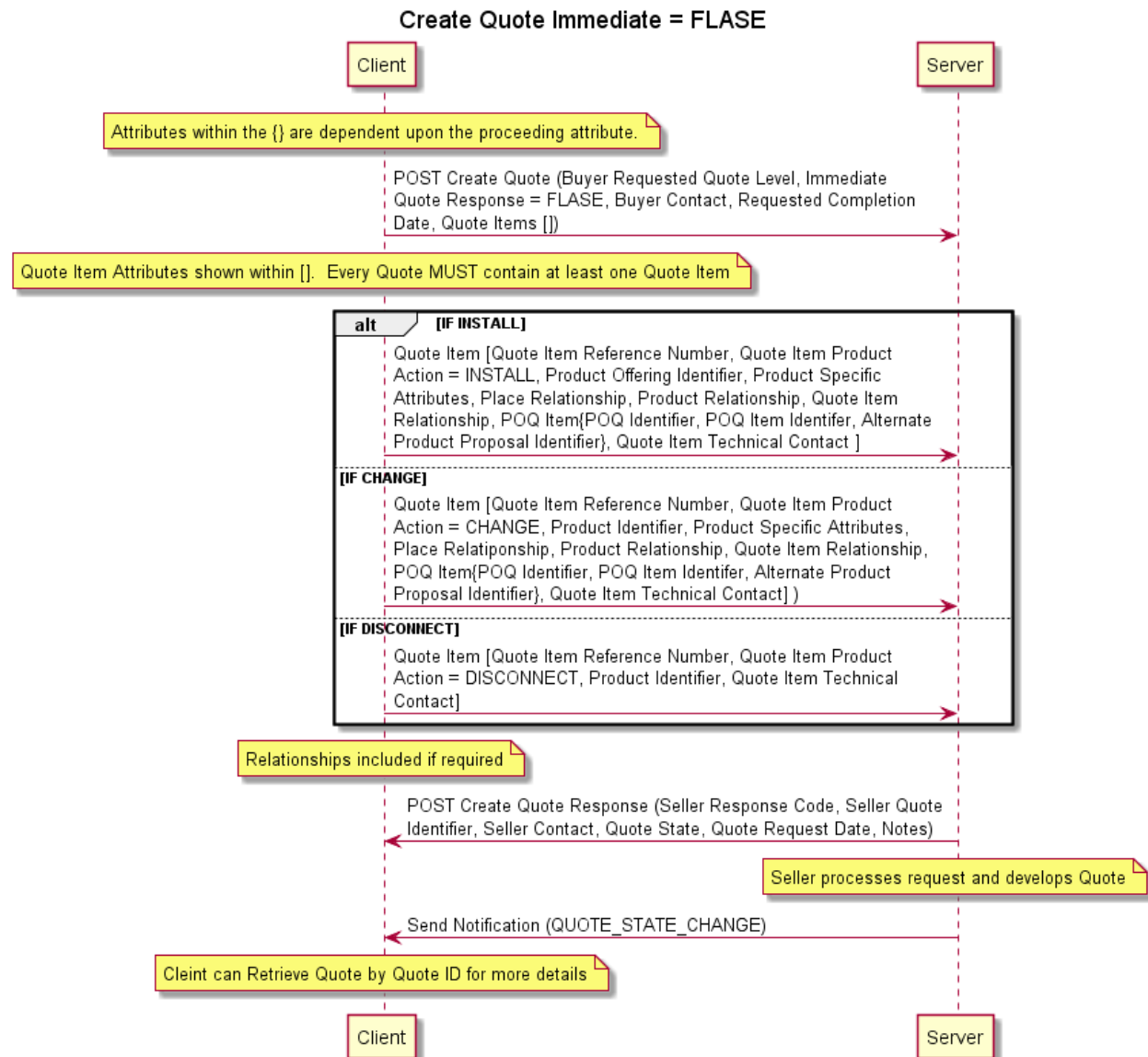
The sequence diagram for a Quote with an Immediate Response is shown in Figure 20.



**Figure 20 – Quote Create with Immediate Response = TRUE Sequence Diagram**

## 12.2.2 Quote Create with Immediate Response = FALSE Sequence Diagram

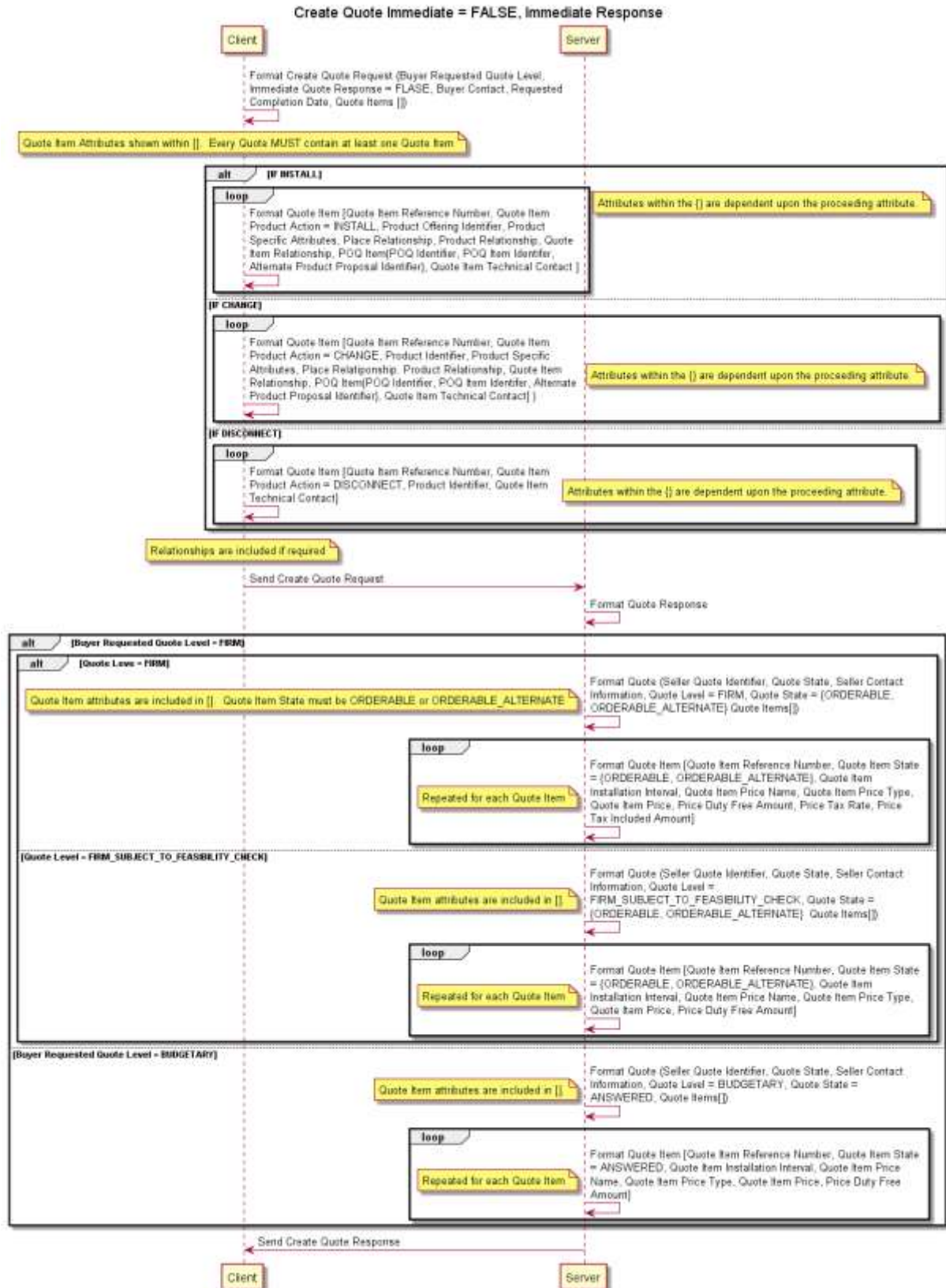
The sequence diagram for a Quote with a Deferred Response is shown in Figure 21.



**Figure 21 – Quote Create With Immediate Response = FALSE Sequence Diagram**

## 12.2.3 Quote Create with Immediate Response = FALSE Immediate Response Sequence Diagram

The sequence diagram for a Quote with a requested Deferred Response and an Immediate Response is provided is shown Figure 22.



**Figure 22 – Quote Create With Immediate Response = FALSE, Immediate Response Sequence Diagram**



### 12.3 MEF W80 Requirements

The requirements from MEF W80 that address Create Quote are shown in the following sections.

#### 12.3.1 Create Quote Requirements

The requirements from MEF 80 [9] for the Create Quote use cases are shown in Table 100.

Requirement	Entity	Tested	Test Case	Comment
D1	B	N		
D2	B	N		
D3	B	N		
D4	B	N		
R3	S	Y		Seller Response Code
R4	S	Y		
R5	S	Y		
R6	S	Y		
R7	S	Y		
R8	S	Y		
R9	SB	Y		Contact Information
O1	SB	N		
R10	SB	Y		Note
R11	S	Y		
O2	S	N		
R12	B	Y	[Test Case 85] [Test Case 86] [Test Case 87] [Test Case 88] [Test Case 89] [Test Case 90] [Test Case 91] [Test Case 92] [Test Case 93] [Test Case 94] [Test Case 95] [Test Case 96] [Test Case 97] [Test Case 98] [Test Case 99] [Test Case 100] [Test Case 101] [Test Case 102] [Test Case 103] [Test Case 104] [Test Case 105]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 106] [Test Case 107] [Test Case 108] [Test Case 109] [Test Case 110] [Test Case 111] [Test Case 112] [Test Case 113] [Test Case 114] [Test Case 115] [Test Case 116] [Test Case 117] [Test Case 118] [Test Case 119] [Test Case 120] [Test Case 121] [Test Case 122] [Test Case 123] [Test Case 124] [Test Case 125] [Test Case 126] [Test Case 127] [Test Case 128] [Test Case 129] [Test Case 130] [Test Case 131] [Test Case 132] [Test Case 133] [Test Case 134] [Test Case 135] [Test Case 136] [Test Case 137] [Test Case 138] [Test Case 139] [Test Case 140] [Test Case 141] [Test Case 142] [Test Case 143] [Test Case 144] [Test Case 145] [Test Case 146] [Test Case 147] [Test Case 148] [Test Case 149] [Test Case 150]	



Require- ment	En- tity	Tested	Test Case	Comment
			[Test Case 151] [Test Case 152] [Test Case 153] [Test Case 154] [Test Case 155] [Test Case 156] [Test Case 157] [Test Case 158] [Test Case 159] [Test Case 160] [Test Case 161] [Test Case 162] [Test Case 163] [Test Case 164] [Test Case 165] [Test Case 166] [Test Case 167] [Test Case 168] [Test Case 169] [Test Case 170] [Test Case 171] [Test Case 172] [Test Case 173] [Test Case 174] [Test Case 175] [Test Case 176] [Test Case 177] [Test Case 178] [Test Case 179] [Test Case 180] [Test Case 181] [Test Case 182] [Test Case 183] [Test Case 184] [Test Case 185] [Test Case 186] [Test Case 187] [Test Case 188] [Test Case 189] [Test Case 190] [Test Case 191] [Test Case 192] [Test Case 193] [Test Case 194] [Test Case 195]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 196] [Test Case 197] [Test Case 198] [Test Case 199] [Test Case 200] [Test Case 201] [Test Case 202] [Test Case 203] [Test Case 204] [Test Case 205] [Test Case 206] [Test Case 207] [Test Case 208] [Test Case 209] [Test Case 210] [Test Case 211] [Test Case 212] [Test Case 213] [Test Case 214] [Test Case 215] [Test Case 216] [Test Case 217] [Test Case 218] [Test Case 219]	
R13	B	Y	See R12	
O3	B	N		
R14	B	Y	See R12	
R15	B	Y		Immediate = False
R16	B	Y		Immediate = False
R17	B	Y		Immediate = False
R18	S	Y	See R12	Immediate = true
O4	SB	N		
CR1<O4	B	N		
R19	B	Y	See R12	Product Action = INSTALL
O5	B	N		Product Action = INSTALL
CR2<O5	B	N		
R20	B	Y	See R12	
R21	B	Y	See R12	
R22	B	Y		Immediate = FALSE
R23	B	Y	See R12	Alternate Product Proposal
R24	B	Y	See R12	Must not include Alternate Product Proposal
R25	B	Y	See R12	
O6	B	N		



Requirement	Entity	Tested	Test Case	Comment
R26	B	Y		Product Action = CHANGE
R27	B	Y		Product Action = CHANGE
O7	B	N		Product Action = CHANGE
CR3<O7	B	N		
R28	B	Y		Product Action = DISCONNECT
R29	B	Y		Product Action = DISCONNECT
R30	B	Y		Product Action = DISCONNECT
R31	B	Y		Product Action = DISCONNECT
R32	S	Y	[Test Case 85] [Test Case 86] [Test Case 87] [Test Case 88] [Test Case 89] [Test Case 90] [Test Case 91] [Test Case 92] [Test Case 93] [Test Case 94] [Test Case 95] [Test Case 96] [Test Case 97] [Test Case 98] [Test Case 99] [Test Case 100] [Test Case 101] [Test Case 102] [Test Case 103] [Test Case 104] [Test Case 105] [Test Case 106] [Test Case 107] [Test Case 108] [Test Case 109] [Test Case 110] [Test Case 111] [Test Case 112] [Test Case 113] [Test Case 114] [Test Case 115] [Test Case 116] [Test Case 117] [Test Case 118] [Test Case 119] [Test Case 120] [Test Case 121]	



Require- ment	En- tity	Tested	Test Case	Comment
			[Test Case 122] [Test Case 123] [Test Case 124] [Test Case 125] [Test Case 126] [Test Case 127] [Test Case 128] [Test Case 129] [Test Case 130] [Test Case 131] [Test Case 132] [Test Case 133] [Test Case 134] [Test Case 135] [Test Case 136] [Test Case 137] [Test Case 138] [Test Case 139] [Test Case 140] [Test Case 141] [Test Case 142] [Test Case 143] [Test Case 144] [Test Case 145] [Test Case 146] [Test Case 147] [Test Case 148] [Test Case 149] [Test Case 150] [Test Case 151] [Test Case 152] [Test Case 153] [Test Case 154] [Test Case 155] [Test Case 156] [Test Case 157] [Test Case 158] [Test Case 159] [Test Case 160] [Test Case 161] [Test Case 162] [Test Case 163] [Test Case 164] [Test Case 165] [Test Case 166]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 167] [Test Case 168] [Test Case 169] [Test Case 170] [Test Case 171] [Test Case 172] [Test Case 173] [Test Case 174] [Test Case 175] [Test Case 176] [Test Case 177] [Test Case 178] [Test Case 179] [Test Case 180] [Test Case 181] [Test Case 182] [Test Case 183] [Test Case 184] [Test Case 185] [Test Case 186] [Test Case 187] [Test Case 188] [Test Case 189] [Test Case 190] [Test Case 191] [Test Case 192] [Test Case 193] [Test Case 194] [Test Case 195] [Test Case 196] [Test Case 197] [Test Case 198] [Test Case 199] [Test Case 200] [Test Case 201] [Test Case 202] [Test Case 203] [Test Case 204] [Test Case 205] [Test Case 206] [Test Case 207] [Test Case 208] [Test Case 209] [Test Case 210] [Test Case 211]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 212] [Test Case 213] [Test Case 214] [Test Case 215] [Test Case 216] [Test Case 217] [Test Case 218] [Test Case 219]	
R33	S	Y		
R34	S	Y	See R32	
R35	S	Y	See R32	
R36	S	Y	See R32	
R37	S	Y	See R32	Buyer Requested Quote Level = FIRM
R38	S	Y	See R32	
R39	S	Y	See R32	Buyer Requested Quote Level = BUDGETARY
R40	S	Y	See R32	
R41	S	Y	See R32	
R42	S	Y	See R32	
R43	S	Y	See R32	
R44	S	Y	[Test Case 85] [Test Case 86] [Test Case 87] [Test Case 88] [Test Case 89] [Test Case 90] [Test Case 91] [Test Case 92] [Test Case 93] [Test Case 94] [Test Case 95] [Test Case 96] [Test Case 97] [Test Case 98] [Test Case 99] [Test Case 100] [Test Case 101] [Test Case 102] [Test Case 103] [Test Case 104] [Test Case 105] [Test Case 106] [Test Case 107] [Test Case 108] [Test Case 109]	DELETING REQUIREMENT





Require- ment	En- tity	Tested	Test Case	Comment
			[Test Case 110] [Test Case 111] [Test Case 112] [Test Case 113] [Test Case 114] [Test Case 115] [Test Case 116] [Test Case 117] [Test Case 118] [Test Case 119] [Test Case 120] [Test Case 121] [Test Case 122] [Test Case 123] [Test Case 124] [Test Case 125] [Test Case 126] [Test Case 127] [Test Case 128] [Test Case 129] [Test Case 130] [Test Case 131] [Test Case 132] [Test Case 133] [Test Case 134] [Test Case 135] [Test Case 136] [Test Case 137] [Test Case 140] [Test Case 141] [Test Case 142] [Test Case 143] [Test Case 144] [Test Case 145] [Test Case 146] [Test Case 147] [Test Case 148] [Test Case 149] [Test Case 150] [Test Case 151] [Test Case 152] [Test Case 153] [Test Case 154] [Test Case 155] [Test Case 156]	



Require- ment	En- tity	Tested	Test Case	Comment
			[Test Case 157] [Test Case 158] [Test Case 159] [Test Case 160] [Test Case 161] [Test Case 162] [Test Case 163] [Test Case 164] [Test Case 165] [Test Case 166] [Test Case 167] [Test Case 168] [Test Case 169] [Test Case 170] [Test Case 171] [Test Case 172] [Test Case 173] [Test Case 174] [Test Case 175] [Test Case 176] [Test Case 177] [Test Case 178] [Test Case 179] [Test Case 180] [Test Case 181] [Test Case 182] [Test Case 183] [Test Case 184] [Test Case 185] [Test Case 186] [Test Case 187] [Test Case 188] [Test Case 189] [Test Case 190] [Test Case 191] [Test Case 192] [Test Case 195] [Test Case 196] [Test Case 197] [Test Case 198] [Test Case 199] [Test Case 200] [Test Case 201] [Test Case 204] [Test Case 205]	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 206] [Test Case 207] [Test Case 208] [Test Case 211] [Test Case 212] [Test Case 214] [Test Case 215] [Test Case 216]	
R45	S	Y	See R44	Quote Item State = ORDERABLE or ANSWERED
R46	S	Y	See R44	Quote Item State = ORDERABLE_ALTERNATE
R47	S	Y	See R44	Quote Item State = ORDERABLE, ORDERABLE_ALTERNATE, or ANSWERED
R48	S	Y	See R44	
R49	S	Y		
R50	S	Y		Quote Item State = UNABLE_TO_PROVIDE
R51	S	Y	[Test Case 121] [Test Case 122] [Test Case 138] [Test Case 139] [Test Case 176] [Test Case 177] [Test Case 193] [Test Case 194] [Test Case 202] [Test Case 203] [Test Case 209] [Test Case 210] [Test Case 213] [Test Case 217]	Quote Item State = INSUFFICIENT_INFORMATION_PROVIDED or ABANDONED
R52	S	Y	See R51	Quote Item State = INSUFFICIENT_INFORMATION_PROVIDED
R53	S	Y	See R44	
O8	S	N		
R54	S	Y	See R44	Quote Item State = ORDERABLE
R55	S	Y	See R44	Quote Item Price Type = RECURRING
R56	S	Y		
R57	S	Y	See R44	Quote Item Price Type = USAGE_BASED
R58	S	Y	See R44	Seller End of Term Action = ROLL
R59	S	Y	See R44	Seller End of Term Action ≠ ROLL



Requirement	Entity	Tested	Test Case	Comment
D5	SB	N		
R60	S	Y	See R32	Immediate = TRUE
R61	S	Y	See R32	Immediate = TRUE
R62	S	Y	See R44	Immediate = TRUE
R63	S	Y	See R44	Immediate = TRUE
R64	S	Y	See R44	Immediate = TRUE
R65	S	Y	See R44	Immediate = TRUE
R66	S	Y	See R51	Immediate = TRUE
R67	S	Y	See R44	Immediate = TRUE
O9	S	Y		Immediate = TRUE
R68	S	Y		Immediate = FALSE
R69	S	Y		Immediate = FALSE
R70	S	Y		Immediate = FALSE
R71	S	Y		Immediate = FALSE
R72	S	Y		Immediate = FALSE
R73	S	Y		Immediate = FALSE, Immediate provided
R74	S	Y		Immediate = FALSE, Immediate provided
R75	S	Y		Immediate = FALSE, Immediate provided
R76	S	Y		Immediate = FALSE, Immediate provided

Table 100 – MEF 80 Requirements for Create Quote

## 12.4 Quote Create Test Cases

The test cases for Create Quote are defined in this section.

### 12.4.1 Request Create Quote with Immediate Response = TRUE

The test cases for Create Quote with Immediate Response = TRUE are described in this section.

#### 12.4.1.1 Create Quote with Immediate Response = TRUE Product Action = INSTALL Test Cases

The test cases for Create Quote with Immediate Action = TRUE and Product Action = INSTALL are defined in this section.

##### 12.4.1.1.1 Buyer Requested Quote Level = FIRM

[R85]The Buyer and Seller **MUST** complete [Test Case 85] as shown in Table 101.

<p><b>[Test Case 85]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 85] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 101 – [Test Case 85]

[R86]The Buyer and Seller **MUST** complete [Test Case 86] as shown in Table 102.



[Test Case 86] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	



[Test Case 86] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 102 – [Test Case 86]

[R87]The Buyer and Seller **MUST** complete [Test Case 87] as shown in Table 103.

[Test Case 87] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product Offering is supported by the Seller and the Location is one supported by the Seller.		





[Test Case 87] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING], [Quote Item Term Name, Quote Item Term Description, Quote Item</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	



[Test Case 87] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]		

Table 103 – [Test Case 87]

[R88]The Buyer and Seller **MUST** complete [Test Case 88] as shown in Table 104.

[Test Case 88] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product Offering is supported by the Seller and the Location is one supported by the Seller.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 88] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 104 – [Test Case 88]

[R89]The Buyer and Seller **MUST** complete [Test Case 89] as shown in Table 105



[Test Case 89] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 89] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 105 – [Test Case 89]

[R90]The Buyer and Seller **MUST** complete [Test Case 90] as shown in Table 106.



[Test Case 90] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 90] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 106 – [Test Case 90]

[R91]The Buyer and Seller **MUST** complete [Test Case 91] as shown in Table 107.

<p>[Test Case 91] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	





[Test Case 91] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}}, Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].		

Table 107 – [Test Case 91]

[R92]The Buyer and Seller **MUST** complete [Test Case 92] as shown in Table 108.

[Test Case 92] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product Offering is supported by the Seller and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 92] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 108 – [Test Case 92]

[R93]The Buyer and Seller **MUST** complete [Test Case 93] as shown in Table 109.



[Test Case 93] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 93] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 109 – [Test Case 93]

[R94]The Buyer and Seller **MUST** complete [Test Case 94] as shown in Table 110.

[Test Case 94] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

[Test Case 94] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}}, Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].		

Table 110 – [Test Case 94]

[R95]The Buyer and Seller **MUST** complete [Test Case 95] as shown in Table 111.

[Test Case 95] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product Offering is supported by the Seller and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 95] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 111 – [Test Case 95]**

[R96]The Buyer and Seller **MUST** complete [Test Case 96] as shown in Table 112.



[Test Case 96] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	





[Test Case 96] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 112 – [Test Case 96]

[R97]The Buyer and Seller **MUST** complete [Test Case 97] as shown in Table 113.



[Test Case 97] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

[Test Case 97] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }, Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]		

Table 113 – [Test Case 97]

[R98]The Buyer and Seller **MUST** complete [Test Case 98] as shown in Table 114.

[Test Case 98] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product Offering is supported by the Seller and the two Quote Items are included.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 98] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 114 – [Test Case 98]

[R99]The Buyer and Seller **MUST** complete [Test Case 99] as shown in Table 115.



[Test Case 99] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 99] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 115 – [Test Case 99]

[R100]The Buyer and Seller **MUST** complete [Test Case 100] as shown in Table 116.



<b>[Test Case 100]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



<p>[Test Case 100] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	Quote does not include complete pricing

**Table 116 – [Test Case 100]**

[R101]The Buyer and Seller **MUST** complete [Test Case 101] as shown in Table 117.





<b>[Test Case 101]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40,	

[Test Case 101] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 117 – [Test Case 101]

[R102]The Buyer and Seller **MUST** complete [Test Case 102] as shown in Table 118.



<b>[Test Case 102]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42,	



[Test Case 102] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_GEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount {Price Duty Free Amount = Currency, Value}], Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 118 – [Test Case 102]

[R103]The Buyer and Seller **MUST** complete [Test Case 103] as shown in Table 119.

[Test Case 103] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the		



<b>[Test Case 103]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 103] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 119 – [Test Case 103]**

[R104]The Buyer and Seller **MUST** complete [Test Case 104] as shown in Table 120.



<b>[Test Case 104]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40,	

<p>[Test Case 104] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount {Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].</p>	<p>R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 120 – [Test Case 104]**

[R105]The Buyer and Seller **MUST** complete [Test Case 105] as shown in Table 121.





<b>[Test Case 105]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 105] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 121 – [Test Case 105]

[R106]The Buyer and Seller **MUST** complete [Test Case 106] as shown in Table 122.



<b>[Test Case 106]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40,	

[Test Case 106] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW].</p>	<p>R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

Table 122 – [Test Case 106]

[R107]The Buyer and Seller **MUST** complete [Test Case 107] as shown in Table 123.



<b>[Test Case 107]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 107] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 123 – [Test Case 107]

[R108]The Buyer and Seller **MUST** complete [Test Case 108] as shown in Table 124.



[Test Case 108] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

<p>[Test Case 108] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].</p>	<p>R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 124 – [Test Case 108]**

[R109]The Buyer and Seller **MUST** complete [Test Case 109] as shown in Table 125.





<b>[Test Case 109]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58,	

[Test Case 109] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING],</p>	R59, R60, R61, R62, R63, R64, R65, R67	

Table 125 – [Test Case 109]

[R110]The Buyer and Seller **MUST** complete [Test Case 110] as shown in Table 126.

[Test Case 110] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of</p>		



[Test Case 110] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	ORDERABLE_ALTERNATE and is subject to a feasibility check.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 110] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 126 – [Test Case 110]

[R111]The Buyer and Seller **MUST** complete [Test Case 111] as shown in Table 127.



[Test Case 111] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	



[Test Case 111] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Buyer specified attributes and each Quote Item.  Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 127 – [Test Case 111]

[R112]The Buyer and Seller **MUST** complete [Test Case 112] as shown in Table 128.

[Test Case 112] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the		



[Test Case 112] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 112] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 128 – [Test Case 112]

[R113]The Buyer and Seller **MUST** complete [Test Case 113] as shown in Table 129.





[Test Case 113] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 113] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 129 – [Test Case 113]

[R114]The Buyer and Seller **MUST** complete [Test Case 114] as shown in Table 130.

[Test Case 114] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the		



[Test Case 114] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 114] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 130 – [Test Case 114]

[R115]The Buyer and Seller **MUST** complete [Test Case 115] as shown in Table 131.



<b>[Test Case 115]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 115] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 131 – [Test Case 115]

[R116]The Buyer and Seller **MUST** complete [Test Case 116] as shown in Table 132.



<b>[Test Case 116]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58,	



[Test Case 116] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Buyer specified attributes and each Quote Item.  Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING],	R59, R60, R61, R62, R63, R64, R65, R67	

Table 132 – [Test Case 116]

[R117]The Buyer and Seller **MUST** complete [Test Case 117] as shown in Table 133.

[Test Case 117] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of		





[Test Case 117] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	ORDERABLE_ALTERNATE and is subject to a feasibility check.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 117] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 133 – [Test Case 117]

[R118]The Buyer and Seller **MUST** complete [Test Case 118] as shown in Table 134.



[Test Case 118] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	



[Test Case 118] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Buyer specified attributes and each Quote Item.  Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 134 – [Test Case 118]

[R119]The Buyer and Seller **MUST** complete [Test Case 119] as shown in Table 135.

[Test Case 119] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the		



[Test Case 119] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 119] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 135 – [Test Case 119]

[R120]The Buyer and Seller **MUST** complete [Test Case 120] as shown in Table 136.



[Test Case 120] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 120] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 136 – [Test Case 120]**

[R121]The Buyer and Seller **MUST** complete [Test Case 121] as shown in Table 137.

[Test Case 121] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The		





[Test Case 121] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	Buyer's request contains a minimum of two Quote Items.  The Product Offering is supported by the Seller and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to place the Quote into the INSUFFICIENT_INFORMATION_PROVIDED state.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51,	

[Test Case 121] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	that there is business validation problem with the Quote.  The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.	R52, R60, R61, R66	

Table 137 – [Test Case 121]

[R122]The Buyer and Seller **MUST** complete [Test Case 122] as shown in Table 138.

[Test Case 122] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product Offering is not supported by the Seller and the two Quote Items are included. The Buyer requests a Product Offering that is not available. The Seller returns a 201 response with a Quote State of UNABLE_TO_PROVIDE.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL,	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 122] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.		
Seller Response	<p>THEN - Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, all Buyer specified attributes and each Quote Item.</p> <p>The Seller sets the Quote Item state of the unsupported Quote Item to UNABLE_TO_PROVIDE, the Quote Item state of the other Quote Item is set to ABANDONED and the Quote State is set to UNABLE_TO_PROVIDE.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 138 – [Test Case 122]

## 12.4.1.1.2 Buyer Requested Quote Level = BUDGETARY

[R123]The Buyer and Seller **MUST** complete [Test Case 123] as shown in Table 139.

[Test Case 123] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		



[Test Case 123] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Offering is supported by the Seller and the Location is one supported by the Seller.		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 123] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 139 – [Test Case 123]

[R124]The Buyer and Seller **MUST** complete [Test Case 124] as shown in Table 140.



<b>[Test Case 124]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48,	

[Test Case 124] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].	R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 140 – [Test Case 124]**

[R125]The Buyer and Seller **MUST** complete [Test Case 125] as shown in Table 141.

[Test Case 125] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		



[Test Case 125] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product Offering is supported by the Seller and the Location is one supported by the Seller.		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	



[Test Case 125] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item Price Name, Quote Item Price Type = NON_RECURRING], [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]		

**Table 141 – [Test Case 125]**

[R126]The Buyer and Seller **MUST** complete [Test Case 126] as shown in Table 142.

[Test Case 126] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product Offering is supported by the Seller and the Location is one supported by the Seller.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 126] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>		

<p>[Test Case 126] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 142 – [Test Case 126]**

[R127]The Buyer and Seller **MUST** complete [Test Case 127] as shown in Table 143.



[Test Case 127] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 127] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 143 – [Test Case 127]

[R128]The Buyer and Seller **MUST** complete [Test Case 128] as shown in Table 144.



[Test Case 128] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 128] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 144 – [Test Case 128]

[R129]The Buyer and Seller **MUST** complete [Test Case 129] as shown in Table 145.



[Test Case 129] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62,	



[Test Case 129] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].	R63, R64, R65, R67	

Table 145 – [Test Case 129]

[R130]The Buyer and Seller **MUST** complete [Test Case 130] as shown in Table 146.

[Test Case 130] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product Offering is supported by the Seller and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level =	MEF 80 [9] R12, R13, R14, R18, R19, R20,	

<p><b>[Test Case 130]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 146 – [Test Case 130]**

[R131]The Buyer and Seller **MUST** complete [Test Case 131] as shown in Table 147.

[Test Case 131] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 131] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 147 – [Test Case 131]**

[R132]The Buyer and Seller **MUST** complete [Test Case 132] as shown in Table 148.



[Test Case 132] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product Offering is supported by the Seller and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62,	



[Test Case 132] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].	R63, R64, R65, R67	

Table 148 – [Test Case 132]

[R133]The Buyer and Seller **MUST** complete [Test Case 133] as shown in Table 149.

[Test Case 133] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product Offering is supported by the Seller and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level =	MEF 80 [9] R12, R13, R14, R18,	



[Test Case 133] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	R19, R20, R21, R23, R24, R25	



[Test Case 133] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 149 – [Test Case 133]

[R134]The Buyer and Seller **MUST** complete [Test Case 134] as shown in Table 150.





[Test Case 134] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 134] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 150 – [Test Case 134]

[R135]The Buyer and Seller **MUST** complete [Test Case 135] as shown in Table 151.



[Test Case 135] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62,	

[Test Case 135] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]	R63, R64, R65, R67	

**Table 151 – [Test Case 135]**

[R136]The Buyer and Seller **MUST** complete [Test Case 136] as shown in Table 152.

[Test Case 136] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product Offering is supported by the Seller and the two Quote Items are included.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only =	MEF 80 [9] R12, R13, R14, R18, R19, R20,	



[Test Case 136] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.	R21, R23, R24, R25	

[Test Case 136] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 152 – [Test Case 136]

[R137]The Buyer and Seller **MUST** complete [Test Case 137] as shown in Table 153.



[Test Case 137] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED E, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 137] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Quote State = ANSWERED E, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 153 – [Test Case 137]

[R138]The Buyer and Seller **MUST** complete [Test Case 138] as shown in Table 154.





[Test Case 138] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to place the Quote into the INSUFFICIENT_INFORMATION_PROVIDED state.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and two Quote Items</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 138] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 422 response from the Seller indicating that there is business validation problem with the Quote.</p> <p>The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 154 – [Test Case 138]

[R139]The Buyer and Seller **MUST** complete [Test Case 139] as shown in Table 155.

[Test Case 139] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is not supported by the Seller and the two Quote Items are included. The Buyer requests a Product Offering that is not available. The Seller returns a 201 response with a Quote State of UNABLE_TO_PROVIDE.</p>		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and two Quote Items	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 139] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.		
Seller Response	<p>THEN - Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, all Buyer specified attributes and each Quote Item.</p> <p>The Seller sets the Quote Item state of the unsupported Quote Item to UNABLE_TO_PROVIDE, the Quote Item state of the other Quote Item is set to ABANDONED and the Quote State is set to UNABLE_TO_PROVIDE.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 155 – [Test Case 139]

#### 12.4.1.2 Create Quote with Immediate Response = TRUE, Product Action = CHANGE

The test cases for Create Quote with Immediate Action = TRUE and Product Action = CHANGE are defined in this section.

##### 12.4.1.2.1 Buyer Requested Quote Level = FIRM

[R140]The Buyer and Seller **MUST** complete [Test Case 140] as shown in Table 156.



<b>[Test Case 140]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 140] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 156 – [Test Case 140]

[R141]The Buyer and Seller **MUST** complete [Test Case 141] as shown in Table 157.



[Test Case 141] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	



[Test Case 141] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 157 – [Test Case 141]

[R142]The Buyer and Seller **MUST** complete [Test Case 142] as shown in Table 158.

[Test Case 142] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product is in the Seller inventory and the Location is one supported by the Seller.		



[Test Case 142] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING], [Quote Item Term Name, Quote Item Term Description, Quote Item</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	





[Test Case 142] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]		

Table 158 – [Test Case 142]

[R143]The Buyer and Seller **MUST** complete [Test Case 143] as shown in Table 159.

[Test Case 143] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product is in the Seller inventory and the Location is one supported by the Seller.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 143] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 159 – [Test Case 143]**

[R144]The Buyer and Seller **MUST** complete [Test Case 144] as shown in Table 160.



<b>[Test Case 144]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 144] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 160 – [Test Case 144]**

[R145]The Buyer and Seller **MUST** complete [Test Case 145] as shown in Table 161.



[Test Case 145] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 145] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 161 – [Test Case 145]

[R146]The Buyer and Seller **MUST** complete [Test Case 146] as shown in Table 162.



[Test Case 146] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

[Test Case 146] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}}, Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].		

**Table 162 – [Test Case 146]**

[R147]The Buyer and Seller **MUST** complete [Test Case 147] as shown in Table 163.

[Test Case 147] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product is in the Seller inventory and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 147] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 163 – [Test Case 147]

[R148]The Buyer and Seller **MUST** complete [Test Case 148] as shown in Table 164.



[Test Case 148] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 148] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 164 – [Test Case 148]**

[R149]The Buyer and Seller **MUST** complete [Test Case 149] as shown in Table 165.



[Test Case 149] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

[Test Case 149] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}}, Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].		

Table 165 – [Test Case 149]

[R150]The Buyer and Seller **MUST** complete [Test Case 150] as shown in Table 166.

[Test Case 150] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product is in the Seller inventory and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 150] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 166 – [Test Case 150]

[R151]The Buyer and Seller **MUST** complete [Test Case 151] as shown in Table 167.



[Test Case 151] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 151] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 167 – [Test Case 151]

[R152]The Buyer and Seller **MUST** complete [Test Case 152] as shown in Table 168.





[Test Case 152] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	



[Test Case 152] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }, Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]		

Table 168 – [Test Case 152]

[R153]The Buyer and Seller **MUST** complete [Test Case 153] as shown in Table 169.

[Test Case 153] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 153] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 169 – [Test Case 153]

[R154]The Buyer and Seller **MUST** complete [Test Case 154] as shown in Table 170.



[Test Case 154] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 154] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 170 – [Test Case 154]**

[R155]The Buyer and Seller **MUST** complete [Test Case 155] as shown in Table 171.



<b>[Test Case 155]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 155] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	Quote does not include complete pricing

Table 171 – [Test Case 155]

[R156]The Buyer and Seller **MUST** complete [Test Case 156] as shown in Table 172.



[Test Case 156] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42,	



[Test Case 156] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 172 – [Test Case 156]

[R157]The Buyer and Seller **MUST** complete [Test Case 157] as shown in Table 173.



[Test Case 157] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_GEASIBIL-</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44,	



[Test Case 157] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	ITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.  Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount {Price Duty Free Amount = Currency, Value}], Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]	R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 173 – [Test Case 157]

[R158]The Buyer and Seller **MUST** complete [Test Case 158] as shown in Table 174.

[Test Case 158] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location		



<b>[Test Case 158]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	(Location Type, Location, and Location Contact).  The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.  The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 158] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 174 – [Test Case 158]

[R159]The Buyer and Seller **MUST** complete [Test Case 159] as shown in Table 175.



<b>[Test Case 159]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42,	

[Test Case 159] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount {Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].</p>	R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 175 – [Test Case 159]

[R160]The Buyer and Seller **MUST** complete [Test Case 160] as shown in Table 176.



[Test Case 160] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	





[Test Case 160] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 176 – [Test Case 160]

[R161]The Buyer and Seller **MUST** complete [Test Case 161] as shown in Table 177.



[Test Case 161] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level =</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42,	

<p>[Test Case 161] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW].</p>	<p>R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 177 – [Test Case 161]**

[R162]The Buyer and Seller **MUST** complete [Test Case 162] as shown in Table 178.



[Test Case 162] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 162] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 178 – [Test Case 162]**

[R163]The Buyer and Seller **MUST** complete [Test Case 163] as shown in Table 179.



[Test Case 163] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 163] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 179 – [Test Case 163]

[R164]The Buyer and Seller **MUST** complete [Test Case 164] as shown in Table 180.



[Test Case 164] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58,	





[Test Case 164] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Buyer specified attributes and each Quote Item.  Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING],	R59, R60, R61, R62, R63, R64, R65, R67	

Table 180 – [Test Case 164]

[R165]The Buyer and Seller **MUST** complete [Test Case 165] as shown in Table 181.

[Test Case 165] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product is in the Seller inventory and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of		

<p>[Test Case 165] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	ORDERABLE_ALTERNATE and is subject to a feasibility check.		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 165] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 181 – [Test Case 165]**

[R166]The Buyer and Seller **MUST** complete [Test Case 166] as shown in Table 182.



[Test Case 166] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 166] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 182 – [Test Case 166]**

[R167]The Buyer and Seller **MUST** complete [Test Case 167] as shown in Table 183.



[Test Case 167] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CAL-NDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 167] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 183 – [Test Case 167]

[R168]The Buyer and Seller **MUST** complete [Test Case 168] as shown in Table 184.



[Test Case 168] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	



<p>[Test Case 168] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW].</p>	<p>R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 184 – [Test Case 168]**

[R169]The Buyer and Seller **MUST** complete [Test Case 169] as shown in Table 185.



[Test Case 169] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 169] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 185 – [Test Case 169]

[R170]The Buyer and Seller **MUST** complete [Test Case 170] as shown in Table 186.



[Test Case 170] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 170] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 186 – [Test Case 170]

[R171]The Buyer and Seller **MUST** complete [Test Case 171] as shown in Table 187.



<b>[Test Case 171]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58,	



[Test Case 171] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Buyer specified attributes and each Quote Item.  Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING],	R59, R60, R61, R62, R63, R64, R65, R67	

Table 187 – [Test Case 171]

[R172]The Buyer and Seller **MUST** complete [Test Case 172] as shown in Table 188.

[Test Case 172] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it		



[Test Case 172] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



<p>[Test Case 172] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 188 – [Test Case 172]

[R173]The Buyer and Seller **MUST** complete [Test Case 173] as shown in Table 189.



[Test Case 173] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 173] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 189 – [Test Case 173]**

[R174]The Buyer and Seller **MUST** complete [Test Case 174] as shown in Table 190.



[Test Case 174] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 174] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 190 – [Test Case 174]

[R175]The Buyer and Seller **MUST** complete [Test Case 175] as shown in Table 191.



[Test Case 175] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Seller does not include complete pricing in the Quote, so it has a Quote State of ORDERABLE_ALTERNATE and is subject to a feasibility check.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56,	

[Test Case 175] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = US-AGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State = ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = US-AGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW].</p>	R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 191 – [Test Case 175]**

[R176]The Buyer and Seller **MUST** complete [Test Case 176] as shown in Table 192.

[Test Case 176] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request		



[Test Case 176] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to place the Quote into the INSUFFICIENT_INFORMATION_PROVIDED state.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51,	



[Test Case 176] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	that there is business validation problem with the Quote.  The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.	R52, R60, R61, R66	

**Table 192 – [Test Case 176]**

[R177]The Buyer and Seller **MUST** complete [Test Case 177] as shown in Table 193.

[Test Case 177] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included. The Buyer requests a Product Specific Attribute that is not available. The Seller returns a 201 response with a Quote State of UNABLE_TO_PROVIDE.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE,	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 177] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.		
Seller Response	<p>THEN - Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, all Buyer specified attributes and each Quote Item.</p> <p>The Seller sets the Quote Item state of the unsupported Quote Item to UNABLE_TO_PROVIDE, the Quote Item state of the other Quote Item is set to ABANDONED and the Quote State is set to UNABLE_TO_PROVIDE.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 193 – [Test Case 177]

## 12.4.1.2.2 Buyer Requested Quote Level = BUDGETARY

[R178]The Buyer and Seller **MUST** complete [Test Case 178] as shown in Table 194.

[Test Case 178] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		



[Test Case 178] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product is in the Seller inventory and the Location is one supported by the Seller.		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 178] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 194 – [Test Case 178]

[R179]The Buyer and Seller **MUST** complete [Test Case 179] as shown in Table 195.



[Test Case 179] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48,	

[Test Case 179] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}].	R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 195 – [Test Case 179]**

[R180]The Buyer and Seller **MUST** complete [Test Case 180] as shown in Table 196.

[Test Case 180] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).		



[Test Case 180] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product is in the Seller inventory and the Location is one supported by the Seller.		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	



[Test Case 180] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item Price Name, Quote Item Price Type = NON_RECURRING], [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]		

Table 196 – [Test Case 180]

[R181]The Buyer and Seller **MUST** complete [Test Case 181] as shown in Table 197.

[Test Case 181] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product is in the Seller inventory and the Location is one supported by the Seller.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	





<b>[Test Case 181]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	<p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>		

[Test Case 181] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 197 – [Test Case 181]

[R182]The Buyer and Seller **MUST** complete [Test Case 182] as shown in Table 198.



[Test Case 182] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 182] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 198 – [Test Case 182]**

[R183]The Buyer and Seller **MUST** complete [Test Case 183] as shown in Table 199.

<p><b>[Test Case 183]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 183] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}], End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 199 – [Test Case 183]

[R184]The Buyer and Seller **MUST** complete [Test Case 184] as shown in Table 200.



[Test Case 184] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62,	

[Test Case 184] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].	R63, R64, R65, R67	

Table 200 – [Test Case 184]

[R185]The Buyer and Seller **MUST** complete [Test Case 185] as shown in Table 201.

[Test Case 185] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product is in the Seller inventory and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level =	MEF 80 [9] R12, R13, R14, R18, R19, R20,	



<p>[Test Case 185] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
	<p>BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 201 – [Test Case 185]**

[R186]The Buyer and Seller **MUST** complete [Test Case 186] as shown in Table 202.

[Test Case 186] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p>[Test Case 186] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 202 – [Test Case 186]**

[R187]The Buyer and Seller **MUST** complete [Test Case 187] as shown in Table 203.



[Test Case 187] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62,	



[Test Case 187] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = USAGE_BASED, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Description, Quote Item Price Type = USAGE_BASED, Quote Item Price Unit of Measure = Gb, Quote Item Price Amount = {Price Duty Free Amount = Dollars, 10}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT].	R63, R64, R65, R67	

Table 203 – [Test Case 187]

[R188]The Buyer and Seller **MUST** complete [Test Case 188] as shown in Table 204.

[Test Case 188] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product is in the Seller inventory and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level =	MEF 80 [9] R12, R13, R14, R18,	



[Test Case 188] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	R19, R20, R21, R23, R24, R25	

<p>[Test Case 188] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 204 – [Test Case 188]**

[R189]The Buyer and Seller **MUST** complete [Test Case 189] as shown in Table 205.

<p><b>[Test Case 189]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



<p>[Test Case 189] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = ROLL, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = ROLL, Roll Interval = {Duration Unit = CALENDAR_MONTHS, Duration Value = 3}]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 205 – [Test Case 189]**

[R190]The Buyer and Seller **MUST** complete [Test Case 190] as shown in Table 206.



[Test Case 190] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62,	



[Test Case 190] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]	R63, R64, R65, R67	

Table 206 – [Test Case 190]

[R191]The Buyer and Seller **MUST** complete [Test Case 191] as shown in Table 207.

[Test Case 191] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only =	MEF 80 [9] R12, R13, R14, R18, R19, R20,	

<b>[Test Case 191]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.	R21, R23, R24, R25	

<p>[Test Case 191] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_DISCONNECT, Positive Case</p>			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 207 – [Test Case 191]**

[R192]The Buyer and Seller **MUST** complete [Test Case 192] as shown in Table 208.



[Test Case 192] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED E, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

<p><b>[Test Case 192]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Quote State = ANSWERED E, Quote Item Price Type = RECURRING, Quote Item Price Recurring Charge Period = MONTH, Quote Item Term = CALENDAR_MONTHS, End of Term Action = AUTO_RENEW, Positive Case</p>			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = RECURRING Quote Item Price Recurring Charge Period = MONTH, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_RENEW]</p>	<p>MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67</p>	

**Table 208 – [Test Case 192]**

[R193]The Buyer and Seller **MUST** complete [Test Case 193] as shown in Table 209.



[Test Case 193] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to place the Quote into the INSUFFICIENT_INFORMATION_PROVIDED state.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and two Quote Items</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating	MEF 80 [9] R32, R34, R35, R36,	



[Test Case 193] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	that there is business validation problem with the Quote.  The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.	R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 209 – [Test Case 193]

[R194]The Buyer and Seller **MUST** complete [Test Case 194] as shown in Table 210.

[Test Case 194] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product is not in the Seller inventory and the two Quote Items are included. The Buyer requests a Product Offering that is not available. The Seller returns a 201 response with a Quote State of UNABLE_TO_PROVIDE.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 194] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.		
Seller Response	<p>THEN - Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, all Buyer specified attributes and each Quote Item.</p> <p>The Seller sets the Quote Item state of the unsupported Quote Item to UNABLE_TO_PROVIDE, the Quote Item state of the other Quote Item is set to ABANDONED and the Quote State is set to UNABLE_TO_PROVIDE.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

**Table 210 – [Test Case 194]**
**12.4.1.3 Create Quote with Immediate Response = TRUE, Product Action = DISCONNECT**

The test cases for Create Quote with Immediate Action = TRUE and Product Action = DISCONNECT are defined in this section.

**12.4.1.3.1 Buyer Requested Quote Level = FIRM**

[R195]The Buyer and Seller **MUST** complete [Test Case 195] as shown in Table 211.

[Test Case 195] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier.		



[Test Case 195] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product is in the Seller inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Attributes, Requested Quote Item Installation Interval.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 195] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 211 – [Test Case 195]

[R196]The Buyer and Seller **MUST** complete [Test Case 196] as shown in Table 212.



[Test Case 196] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier.</p> <p>The Product is in the Seller inventory, the Seller Quote Item Installation Interval is &gt; the Buyer Requested Quote Item Installation Interval.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Attributes, Requested Quote Item Installation Interval.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 196] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = FALSE, Quote Item Installation Interval &gt; Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 212 – [Test Case 196]**

[R197]The Buyer and Seller **MUST** complete [Test Case 197] as shown in Table 213.



[Test Case 197] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier.</p> <p>The Product is in the Seller inventory. The Seller does not allow the Buyer to disconnect the Product before the term has expired.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Requested Quote Item Installation Interval.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM, Quote State UNABLE_TO_PROVIDE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – UNABLE_TO_PROVIDE, Subject to Feasibility Check = FALSE</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 213 – [Test Case 197]

[R198]The Buyer and Seller **MUST** complete [Test Case 198] as shown in Table 214.

<b>[Test Case 198]</b> Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier.</p> <p>The Product is in the Seller inventory. The Seller may require a dispatch to the Customer location to retrieve equipment and therefore does not complete a Feasibility Check</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Attributes, Requested Quote Item Installation Interval.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 198] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ORDERABLE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval ≤ Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 214 – [Test Case 198]

[R199]The Buyer and Seller **MUST** complete [Test Case 199] as shown in Table 215.



[Test Case 199] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CAL-NDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier.</p> <p>The Product is in the Seller inventory, the Seller Quote Item Installation Interval is &gt; the Buyer Requested Quote Item Installation Interval. The Seller may require a dispatch to the Customer location to retrieve equipment and therefore does not complete a Feasibility Check</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Attributes, Requested Quote Item Installation Interval.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 199] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Location Required, Product Action = DISCONNECT, Quote State = ORDERABLE_ALTERNATE, Quote Item Price Type = NON_RECURRING, Quote Item Term = CAL-NDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = FIRM_SUBJECT_TO_FEASIBILITY_CHECK, Quote State = ORDERABLE_ALTERNATE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State – ORDERABLE_ALTERNATE, Subject to Feasibility Check = TRUE, Quote Item Installation Interval &gt; Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value}], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CAL-NDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 215 – [Test Case 199]

## 12.4.1.3.2 Buyer Requested Quote Level = BUDGETARY

[R200]The Buyer and Seller **MUST** complete [Test Case 200] as shown in Table 216.



[Test Case 200] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = DISCONNECT, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier.  The Product is in the Seller inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Attributes, Requested Quote Item Installation Interval.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 200] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = DISCONNECT, Quote State = ANSWERED, Quote Item Price Type = NON_RECURRING, Quote Item Term = CALENDAR_MONTHS, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State = ANSWERED, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item State - ANSWERED, Subject to Feasibility Check = FALSE, Quote Item Installation Interval <math>\leq</math> Requested Quote Item Installation Interval, Quote Item Price [Quote Item Price Name, Quote Item Price Type = NON_RECURRING, Quote Item Price Amount { Price Duty Free Amount = Currency, Value }], Quote Item Term [Quote Item Term Name, Quote Item Term Description, Quote Item Term Duration = {Duration Unit = CALENDAR_MONTHS, Duration Value = 12}, End of Term Action = AUTO_DISCONNECT]</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 216 – [Test Case 200]

[R201]The Buyer and Seller **MUST** complete [Test Case 201] as shown in Table 217.

[Test Case 201] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = DISCONNECT, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier.		



[Test Case 201] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = DISCONNECT, Quote State = UNABLE_TO_PROVIDE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Product is in the Seller inventory. The Seller does not allow the Buyer to disconnect the Product before the term has expired.		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Requested Quote Item Installation Interval.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, Seller Quote Level = BUDGETARY, Quote State UNABLE_TO_PROVIDE, all Buyer specified attributes and each Quote Item.</p> <p>Each Quote Item includes Quote Item Reference Number,</p> <p>One Quote Item includes Quote Item State = UNABLE_TO_PROVIDE</p> <p>Other Quote Items includes Quote Item State = ABANDONED</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 217 – [Test Case 201]

## 12.4.2 Request Create Quote with Immediate Response = FALSE

The test cases for Create Quote with Immediate Response = FALSE are described in this section.

### 12.4.2.1 Create Quote with Immediate Response = FALSE Product Action =INSTALL Test Cases

The test cases for Create Quote with Immediate Action = FALSE and Product Action = INSTALL are defined in this section.

#### 12.4.2.1.1 Buyer Requested Quote Level = FIRM

[R202]The Buyer and Seller **MUST** complete [Test Case 202] as shown in Table 218.

[Test Case 202] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product Offering is supported by the Seller and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = FALSE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 202] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 218 – [Test Case 202]

[R203]The Buyer and Seller **MUST** complete [Test Case 203] as shown in Table 219.

[Test Case 203] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).  The Product Offering is supported by the Seller and the related product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only =	MEF 80 [9] R12, R13, R14, R18, R19, R20,	



[Test Case 203] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	TRUE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.	R21, R23, R24, R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 219 – [Test Case 203]

[R204]The Buyer and Seller **MUST** complete [Test Case 204] as shown in Table 220.

[Test Case 204] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the		



[Test Case 204] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 220 – [Test Case 204]

[R205]The Buyer and Seller **MUST** complete [Test Case 205] as shown in Table 221.



[Test Case 205] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to place the Quote into the INSUFFICIENT_INFORMATION_PROVIDED state.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = FALSE, and two Quote Items</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating	MEF 80 [9] R32, R34, R35, R36,	

[Test Case 205] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = INSTALL, Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	that there is business validation problem with the Quote.  The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.	R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 221 – [Test Case 205]

## 12.4.2.1.2 Buyer Requested Quote Level = BUDGETARY

[R206]The Buyer and Seller **MUST** complete [Test Case 206] as shown in Table 222.

[Test Case 206] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).  The Product Offering is supported by the Seller and the Location is one supported by the Seller.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 206] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Specific Attributes, Product Relationship, Requested Quote Item Installation Interval.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 222 – [Test Case 206]

[R207]The Buyer and Seller **MUST** complete [Test Case 207] as shown in Table 223.

[Test Case 207] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Product Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and Product Relationship.  The Product Offering is supported by the Seller and the Product exists in the Seller's Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the	MEF 80 [9]	

[Test Case 207] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Product Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p>	R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 223 – [Test Case 207]

[R208]The Buyer and Seller **MUST** complete [Test Case 208] as shown in Table 224.

[Test Case 208] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Offering Identifier, the		

[Test Case 208] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	Product Specific Attributes, and the related Quote Item.  The Product Offering is supported by the Seller.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = TRUE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 224 – [Test Case 208]

[R209]The Buyer and Seller **MUST** complete [Test Case 209] as shown in Table 225.



[Test Case 209] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Offering Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product Offering is supported by the Seller and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to place the Quote into the INSUFFICIENT_INFORMATION_PROVIDED state.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = TRUE, and two Quote Items</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = INSTALL, Product Offering Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description



[Test Case 209] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = INSTALL, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 422 response from the Seller indicating that there is business validation problem with the Quote.</p> <p>The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 225 – [Test Case 209]

#### 12.4.2.2 Create Quote with Immediate Response = FALSE, Product Action = CHANGE

The test cases for Create Quote with Immediate Action = FALSE and Product Action = CHANGE are defined in this section.

##### 12.4.2.2.1 Buyer Requested Quote Level = FIRM

[R210]The Buyer and Seller **MUST** complete [Test Case 210] as shown in Table 226.

[Test Case 210] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = FALSE, and at least one Quote Item	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 210] Create Quote Immediate Response Only = TRUE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 226 – [Test Case 210]**

[R211]The Buyer and Seller **MUST** complete [Test Case 211] as shown in Table 227.



[Test Case 211] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Relationship (Related Product Identifier and Product Relationship Nature).</p> <p>The Product is in the Seller inventory and the related Product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = FALSE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 211] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Product Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 227 – [Test Case 211]

[R212]The Buyer and Seller **MUST** complete [Test Case 212] as shown in Table 228.

[Test Case 212] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only =	MEF 80 [9] R12, R13, R14, R18, R19, R20,	

[Test Case 212] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	FALSE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.	R21, R23, R24, R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 228 – [Test Case 212]**

[R213]The Buyer and Seller **MUST** complete [Test Case 213] as shown in Table 229.

[Test Case 213] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request		



[Test Case 213] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	contains a minimum of two Quote Items.  The Product is in the Seller inventory and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to return a 422 response.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = FALSE, and two Quote Items  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description

[Test Case 213] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 422 response from the Seller indicating that there is business validation problem with the Quote.</p> <p>The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 229 – [Test Case 213]

## 12.4.2.2.2 Buyer Requested Quote Level = BUDGETARY

[R214]The Buyer and Seller **MUST** complete [Test Case 214] as shown in Table 230.

[Test Case 214] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Location (Location Type, Location, and Location Contact).</p> <p>The Product is in the Seller inventory and the Location is one supported by the Seller.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE,</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	

[Test Case 214] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval.</p> <p>The Product Specific Attributes require a Location, and the request includes Quote Item Place Relationship Attributes [Role, Quote Item Location Type, Quote Item Location].</p>		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 230 – [Test Case 214]**

[R215]The Buyer and Seller **MUST** complete [Test Case 215] as shown in Table 231.

[Test Case 215] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Product Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Product Re-		





[Test Case 215] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Product Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	lationship (Related Product Identifier and Product Relationship Nature).  The Product is in the Seller inventory and the related Product is in the Seller Inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Product Relationship.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 231 – [Test Case 215]

[R216]The Buyer and Seller **MUST** complete [Test Case 216] as shown in Table 232.

[Test Case 216] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	



[Test Case 216] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 232 – [Test Case 216]

[R217]The Buyer and Seller **MUST** complete [Test Case 217] as shown in Table 233.

[Test Case 217] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier, the Product Specific Attributes, and the Quote Item Relationship. The Buyer's request contains a minimum of two Quote Items.</p> <p>The Product is in the Seller inventory and the two Quote Items are included. The Buyer omits a Product Specific Attribute value in their request causing the Seller to return a 422 response.</p>		

[Test Case 217] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Quote Item Relationship, Product Action = CHANGE, Business Validation Issue = 422 response, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and two Quote Items</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = CHANGE, Product Identifier, Product Specific Attributes, Requested Quote Item Installation Interval, Quote Item Relationship. The second Quote Item is missing a Product Specific Attribute value.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 422 response from the Seller indicating that there is business validation problem with the Quote.</p> <p>The Seller does not return a Seller Quote Identifier and therefore there is no Quote State.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R51, R52, R60, R61, R66	

Table 233 – [Test Case 217]

#### 12.4.2.3 Create Quote with Immediate Response = FALSE, Product Action = DISCONNECT

The test cases for Create Quote with Immediate Action = FALSE and Product Action = DISCONNECT are defined in this section.

##### 12.4.2.3.1 Buyer Requested Quote Level = FIRM

[R218]The Buyer and Seller **MUST** complete [Test Case 218] as shown in Table 234.

[Test Case 218] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = FIRM, Location Required, Product Action = DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer determines the Product Identifier.</p> <p>The Product is in the Seller inventory.</p>		
Buyer Request	<p>WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = FIRM, Immediate Response Only = FALSE, and at least one Quote Item</p> <p>Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Attributes, Requested Quote Item Installation Interval.</p>	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.</p>	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

**Table 234 – [Test Case 218]**

12.4.2.3.2 Buyer Requested Quote Level = BUDGETARY

[R219]The Buyer and Seller **MUST** complete [Test Case 219] as shown in Table 235.



[Test Case 219] Create Quote Immediate Response Only = FALSE, Buyer Requested Quote Level = BUDGETARY, Location Required, Product Action = DISCONNECT, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines the Product Identifier.  The Product is in the Seller inventory.		
Buyer Request	WHEN - The Buyer POSTs a Create Quote request that includes the Buyer Requested Quote Level = BUDGETARY, Immediate Response Only = FALSE, and at least one Quote Item  Each Quote Item includes Quote Item Reference Number, Quote Item Product Action = DISCONNECT, Product Identifier, Requested Quote Item Installation Interval.	MEF 80 [9] R12, R13, R14, R18, R19, R20, R21, R23, R24, R25	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Seller Quote Identifier, Seller Contact Information, all Buyer specified attributes, and each Quote Item.	MEF 80 [9] R32, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R67	

Table 235 – [Test Case 219]

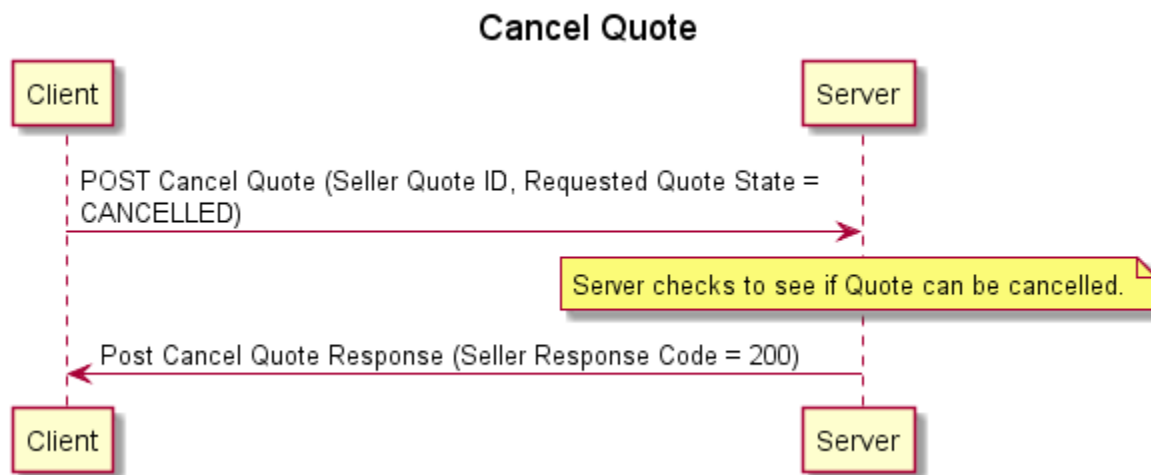
## 13 Cancel Quote

### 13.1 Quote API Overview

See Figure 19 for an overview of the Quote API.

### 13.2 Cancel Quote Sequence Diagram

The Cancel Quote sequence diagram is shown in Figure 23.



**Figure 23 – Cancel Quote Sequence Diagram**

### 13.3 MEF W80 Cancel Quote Requirements

The requirements from MEF 80 [9] for the Cancel Quote use cases are shown in Table 236.

Requirement	Entity	Tested	Test Case	Comment
R1	S	Y	[Test Case 220], [Test Case 221]	
R2	S	Y	[Test Case 220], [Test Case 221]	
R74	B	Y	[Test Case 220], [Test Case 221]	
O10	B	N		
R75	S	Y	[Test Case 220], [Test Case 221]	



Requirement	Entity	Tested	Test Case	Comment
R76	S	Y	[Test Case 220], [Test Case 221]	

**Table 236 – MEF 80 Requirements for Cancel Quote**

### 13.4 Cancel Quote Test Cases

The test cases for Cancel Quote are detailed below.

[R220]The Buyer and Seller **MUST** complete [Test Case 220] as shown in Table 101.

[Test Case 220] Cancel Quote, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines Quote that they desire to cancel.  The Quote State is either ACKNOWLEDGED, IN_PROGRESS, or IN_PROGRESS_DRAFT.		
Buyer Request	WHEN - The Buyer POSTs a Create Cancel Quote request that includes the Seller Quote Identifier and the Requested Quote State = CANCELLED	MEF 80 [9] R74	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success.	MEF 80 [9] R75, R76	

**Table 237 – [Test Case 220]**

[R221]The Buyer and Seller **MUST** complete [Test Case 221] as shown in Table 101.

[Test Case 221] Cancel Quote, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines Quote that they desire to cancel.  The Quote State is not ACKNOWLEDGED, IN_PROGRESS, or IN_PROGRESS_DRAFT.		



[Test Case 221] Cancel Quote, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN - The Buyer POSTs a Create Cancel Quote request that includes the Seller Quote Identifier and the Requested Quote State = CANCELLED	MEF 80 [9] R74	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating a Business Validation issue.	MEF 80 [9] R75, R76	

**Table 238 – [Test Case 221]**

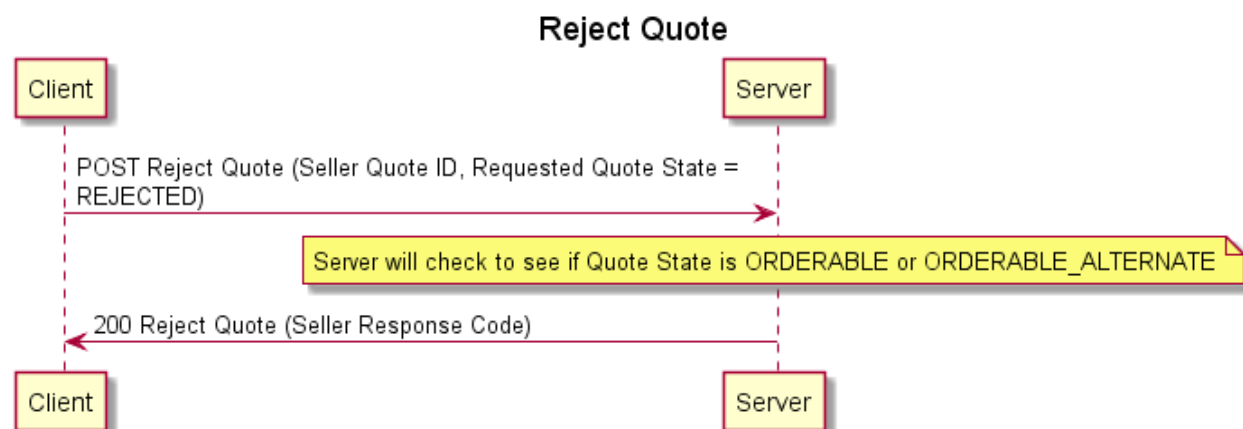
## 14 Decline Quote

### 14.1 Quote API Overview

See Figure 19 for an overview of the Quote API.

### 14.2 Decline Quote Sequence Diagram

The Decline Quote sequence diagram is shown in Figure 24.



**Figure 24 – Decline Quote Sequence Diagram**

### 14.3 MEF W80 Decline Quote Requirements

The requirements from MEF 80 [9] for the Decline Quote use cases are shown in Table 239.

Requirement	Entity	Tested	Test Case	Comment
R1	S	Y	[Test Case 222], [Test Case 223]	
R2	S	Y	[Test Case 222], [Test Case 223]	
R74	B	Y	[Test Case 222], [Test Case 223]	
O10	B	N		
R75	S	Y	[Test Case 222], [Test Case 223]	



Requirement	Entity	Tested	Test Case	Comment
R76	S	Y	[Test Case 222], [Test Case 223]	

Table 239 – MEF 80 Requirements for Decline Quote

#### 14.4 Decline Quote Test Cases

The test cases for Decline Quote are detailed below.

[R222]The Buyer and Seller **MUST** complete [Test Case 222] as shown in Table 240.

[Test Case 222] Decline Quote, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines Quote that they desire to cancel.  The Quote State is either ORDERABLE or ORDERABLE_ALTERNATE.		
Buyer Request	WHEN - The Buyer POSTs a Create Cancel Quote request that includes the Seller Quote Identifier and the Requested Quote State = DECLINED	MEF 80 [9] R74	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success.	MEF 80 [9] R75, R76	

Table 240 – [Test Case 222]

[R223]The Buyer and Seller **MUST** complete [Test Case 223] as shown in Table 241.

[Test Case 223] Decline Quote, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer determines Quote that they desire to cancel.  The Quote State is not ORDERABLE or ORDERABLE_ALTERNATE.		

[Test Case 223] Decline Quote, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN - The Buyer POSTs a Create Cancel Quote request that includes the Seller Quote Identifier and the Requested Quote State = DECLINED	MEF 80 [9] R74	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating a Business Validation issue.	MEF 80 [9] R75, R76	

**Table 241 – [Test Case 223]**

## 15 Retrieve Quote

The Retrieve Quote test requirements and test cases are defined in this section.

### 15.1 Quote API Overview

The Retrieve Quote API overview is shown in this section.

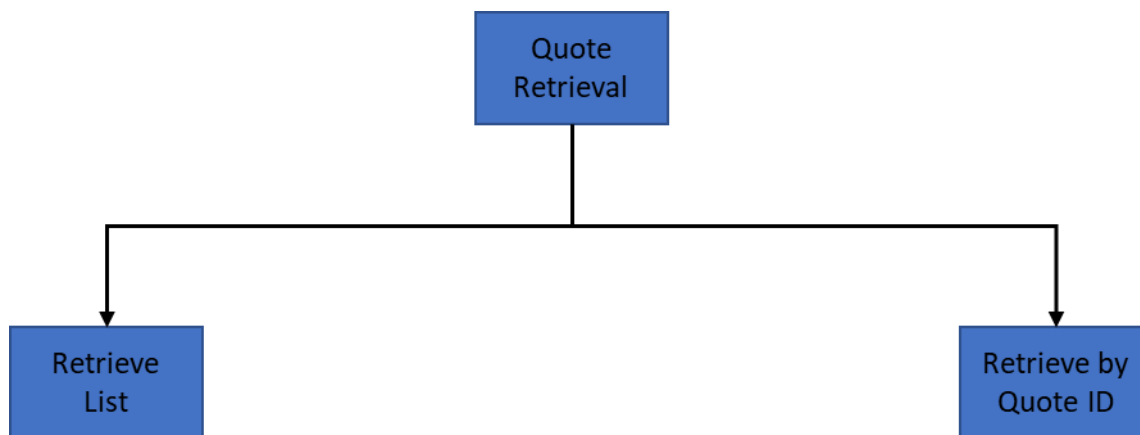


Figure 25

### 15.2 Retrieve Quote Sequence Diagrams

The sequence diagrams for Retrieve Quote are shown in the following sections.

#### 15.2.1 Retrieve Quote List Sequence Diagram

The Retrieve Quote List sequence diagram is shown in Figure 26.

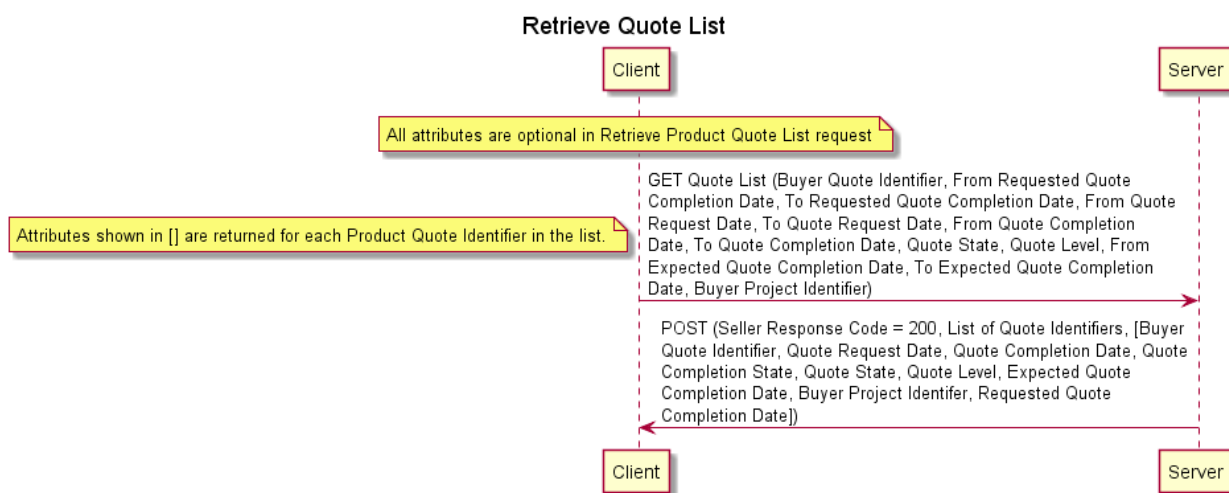
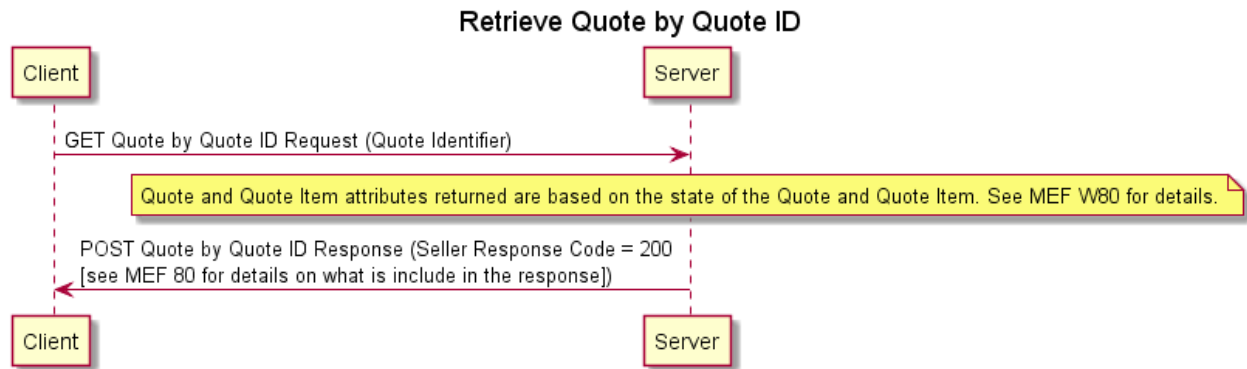


Figure 26 – Retrieve Quote List Sequence Diagram

### 15.2.2 Retrieve Quote by Quote ID Sequence Diagram

The Retrieve Quote by Quote ID sequence diagram is shown in Figure 27.



**Figure 27 – Retrieve Quote by Quote ID Sequence Diagram**

## 15.3 MEF W80 Requirements

The requirements from MEF W80 that address Retrieve Quote and Retrieve Quote by ID are shown in the following sections.

### 15.3.1 Retrieve Quote List

The requirements from MEF 80 [9] for the Retrieve Quote use case are shown in Table 242.

Requirement	Entity	Tested	Test Case	Comment
O17	B	Y	[Test Case 224], [Test Case 225], [Test Case 226]	
O18	B	Y	[Test Case 224], [Test Case 225], [Test Case 226]	
O19	B	Y	[Test Case 224], [Test Case 225], [Test Case 226]	
R77	S	Y	[Test Case 224], [Test Case 225], [Test Case 226]	
R78	S	Y	[Test Case 224], [Test Case 225], [Test Case 226]	

Requirement	Entity	Tested	Test Case	Comment
R79	S	Y	[Test Case 224], [Test Case 225], [Test Case 226]	

**Table 242 – MEF 80 Requirements for Retrieve Quote List**

### 15.3.2 MEF W80 Retrieve Quote by Quote ID

The requirements from MEF 80 [9] for the Retrieve Quote by Quote ID use case are shown in Table 243.

Requirement	Entity	Tested	Test Case	Comment
R80	B	Y	[Test Case 227], [Test Case 228]	
R81	S	Y	[Test Case 227], [Test Case 228]	
R82	S	Y	[Test Case 227], [Test Case 228]	
R83	S	Y	[Test Case 227], [Test Case 228]	
R84	S	Y	[Test Case 227], [Test Case 228]	

**Table 243 – MEF 80 Requirements for Retrieve Quote by Quote ID**

## 15.4 Retrieve Quote Test Cases

The test cases for Retrieve Quote List and Retrieve Quote by Quote Identifier are detailed below.

### 15.4.1 Retrieve Quote List Test Cases

The test cases for Retrieve Quote List are detailed below.

[R224]The Buyer and Seller **MUST** complete [Test Case 224] as shown in Table 244.

[Test Case 224] Retrieve Quote List, Matching Quote Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer desires to retrieve a list of Quotes and they determine which if any filter criteria they want to use.  There is at least one Quote in the Seller's system that is assigned to		



[Test Case 224] Retrieve Quote List, Matching Quote Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	the Buyer and matches any filter criteria used by the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Quote List that may contain one or more of the filter criteria, Buyer Quote Identifier, Requested Quote Completion Date (greater than, less than), Quote Request Date (greater than, less than), Quote Completion Date (greater than, less than), Quote State (ACKNOWLEDGED, REJECTED, IN_PROGRESS, IN_PROGRESS_DRAFT, CANCELLED, INSUFFICIENT_INFORMATION_PROVIDED, UNABLE_TO_PROVIDE, ORDERABLE_ALTERNATE, ORDERABLE, DECLINED, EXPIRED, ACCEPTED), Quote Level (FIRM, FIRM_SUBJECT_TO_FEASIBILITY_CHECK, BUDGETARY), Expected Quote Completion Date (greater than, less than), Project Identifier	MEF 80 [9] O17, O18, O19	



[Test Case 224] Retrieve Quote List, Matching Quote Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 200 response from the Seller indicating success. The Seller response includes indications that the response was throttled due to too many records, the result count = (number of results returned), the total count of records found = (number of matching records found).</p> <p>For each record returned the response includes Seller Quote Identifier, Buyer Quote Identifier, Quote Request Date, Quote Completion Date, Quote Completion State (one of [ ORDERABLE, ORDERABLE_ALTERNATE, CANCELLED, ANSWERED, INSUFFICIENT_INFORMATION_PROVIDED, UNABLE_TO_PROVIDE]), Quote State (one of [ACKNOWLEDGED, REJECTED, IN_PROGRESS, IN_PROGRESS_DRAFT, CANCELLED, INSUFFICIENT_INFORMATION_PROVIDED, UNABLE_TO_PROVIDE, ORDERABLE_ALTERNATE, ORDERABLE, DECLINED, EXPIRED, ACCEPTED]), Quote Level (one of [FIRM, FIRM_SUBJECT_TO_FEASIBILITY_CHECK, BUDGETARY]), Expected Quote Completion Date, Project Identifier, Requested Quote Completion Date</p>	MEF 80 [9] R77, R78, R79	

Table 244 – [Test Case 224]

[R225]The Buyer and Seller **MUST** complete [Test Case 225] as shown in Table 245.

[Test Case 225] Retrieve Quote List, No Matching Quote Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve a list of Quotes and they determine which if any filter criteria they want to use.</p> <p>There zero Quotes in the Seller's system that are assigned to the Buyer and match any filter criteria used by the Buyer.</p>		
Buyer Request	<p>WHEN - The Buyer submits a GET Quote List that may contain one or more of the filter criteria, Buyer Quote Identifier, Requested Quote Completion Date (greater than, less than), Quote Request Date (greater than, less than), Quote Completion Date (greater than, less than), Quote State (ACKNOWLEDGED, REJECTED, IN_PROGRESS, IN_PROGRESS_DRAFT, CANCELLED, INSUFFICIENT_INFORMATION_PROVIDED, UNABLE_TO_PROVIDE, ORDERABLE_ALTERNATE, ORDERABLE, DECLINED, EXPIRED, ACCEPTED), Quote Level (FIRM, FIRM_SUBJECT_TO_FEASIBILITY_CHECK, BUDGETARY), Expected Quote Completion Date (greater than, less than), Project Identifier</p>	MEF 80 [9] O17, O18, O19	
Seller Response	<p>THEN - the Buyer receives a 200 response from the Seller indicating success with an empty list. The Seller response includes indications that the result count = 0 and the total count of records found = 0.</p>	MEF 80 [9] R77, R78, R79	

Table 245 – [Test Case 225]

[R226]The Buyer and Seller **MUST** complete [Test Case 226] as shown in Table 246.

[Test Case 226] Retrieve Quote List, Missing Attribute, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve a list of Quotes and they determine which if any filter criteria they want to use.</p> <p>There is at least one Quote in the Seller's system that is assigned to the Buyer and matches any filter criteria used by the Buyer. The Buyer uses the Requested Quote Completion Date criteria and omits the less than date.</p>		
Buyer Request	WHEN - The Buyer submits a GET Quote List that includes the Requested Quote Completion Date (greater than) and omits the less than date.	MEF 80 [9] O17, O18, O19	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response with error indicator from the Seller. The Seller response does not include any additional information.	MEF 80 [9] R77, R78, R79	

Table 246 – [Test Case 226]

#### 15.4.2 Retrieve Quote by Quote Identifier Test Case

The test cases for Retrieve Quote by Quote ID are detailed below.

[R227]The Buyer and Seller **MUST** complete [Test Case 227] as shown in Table 247.

[Test Case 227] Retrieve Quote by Quote Identifier, Matching Quote Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve the details on a specified Quote.</p> <p>There is a Quote with a matching Quote Identifier in the Seller's system,</p>		
Buyer Request	WHEN – the Buyer submits a GET retrieveQuote that includes the Quote Identifier.	MEF 80 [9] O17, O18, O19	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success. The Seller response includes all details on the Quote as described in section 12.4.1.	MEF 80 [9] R77, R78, R79	

**Table 247 – [Test Case 227]**

[R228]The Buyer and Seller **MUST** complete [Test Case 228] as shown in Table 248.

[Test Case 228] Retrieve Quote by Quote Identifier, No Matching Quote Found, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve the details on a specified Quote.</p> <p>There is not a Quote with a matching Quote Identifier in the Seller's system,</p>		
Buyer Request	WHEN – the Buyer submits a GET retrieveQuote that includes the Quote Identifier.	MEF 80 [9] O17, O18, O19	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is



[Test Case 228] Retrieve Quote by Quote Identifier, No Matching Quote Found, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
			incorrect per API description
Seller Response	THEN - the Buyer receives a 404 response from the Seller indicating that the Quote Identifier was not found.	MEF 80 [9] R77, R78, R79	

Table 248 – [Test Case 228]

## 16 Quote Notification

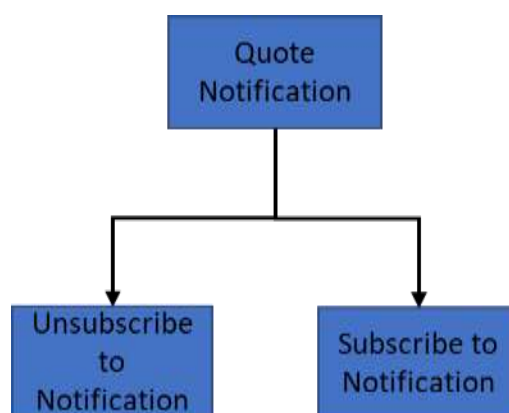
The Quote Notification test requirements and test cases are defined in this section.

### 16.1 Quote Notification API Overview

There are two APIs involved in Quote Notifications. The Quote Management API contains the Register for Notifications functions. The Quote Notification API contains the Quote Notifications.

#### 16.1.1 Register for Quote Notification API Overview

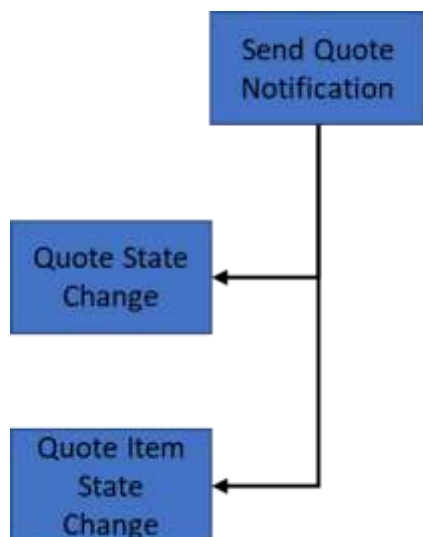
An overview of the Register for Quote Notification function in the Quote Management API is shown in Figure 28.



**Figure 28 – Register for Quote Notification**

#### 16.1.2 Quote Notification API Overview

An overview of the Quote Notification API is shown in Figure 29.



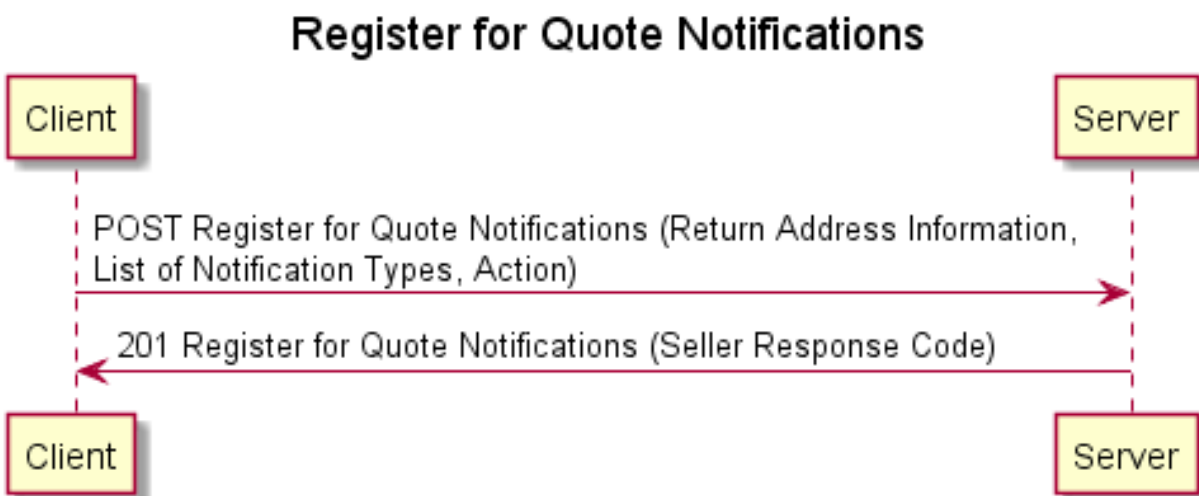
**Figure 29 – Quote Notification API Overview**

## 16.2 Quote Notification Sequence Diagrams

The Quote Notification sequence diagrams are shown in the following sections.

### 16.2.1 Register for Notification Sequence Diagram

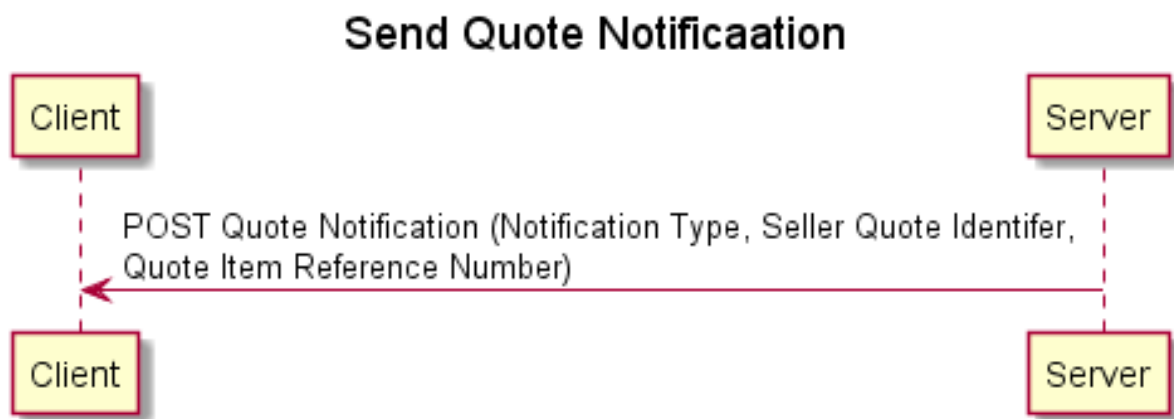
The Register for Quote Notifications sequence diagram is shown in Figure 30.



**Figure 30 – Register for Quote Notifications Sequence Diagram**

### 16.2.2 Send Quote Notification Sequence Diagram

The Send Quote Notification sequence diagram is shown in Figure 31.



**Figure 31 – Send Quote Notification Sequence Diagram**

### 16.3 MEF W80 Requirements

The requirements from MEF W80 that address registering for and sending notifications are shown in the following sections.

#### 16.3.1 Register for Quote Notifications Requirements

The requirements from MEF 80 [9] for the Register for Quote Notifications use case are shown in Table 249.

Requirement	Entity	Tested	Test Case	Comment
R92	B	Y	[Test Case 229], [Test Case 230], [Test Case 231], [Test Case 232], [Test Case 233], [Test Case 234], [Test Case 235]	
R93	B	Y	[Test Case 229], [Test Case 230], [Test Case 231], [Test Case 232], [Test Case 233], [Test Case 234], [Test Case 235]	
R94	B	Y	[Test Case 229], [Test Case 230], [Test Case 231], [Test Case 232], [Test Case 233], [Test Case 234],	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 235]	
R95	S	Y	[Test Case 229], [Test Case 230], [Test Case 231], [Test Case 232], [Test Case 233], [Test Case 234], [Test Case 235]	

**Table 249 – MEF 80 Requirements for Register for Product Notifications**

### 16.3.2 MEF W80 Send Quote Notifications Requirements

The requirements from MEF 80 [9] for the Send Notifications use case are shown in Table 250.

Requirement	Entity	Tested	Test Case	Comment
O20	S	Y	[Test Case 236], [Test Case 237], [Test Case 238], [Test Case 239], [Test Case 240], [Test Case 241], [Test Case 242], [Test Case 243], [Test Case 244], [Test Case 245], [Test Case 246], [Test Case 247], [Test Case 248], [Test Case 249], [Test Case 250], [Test Case 251], [Test Case 252], [Test Case 253], [Test Case 254], [Test Case 255], [Test Case 256]	May support notifications
CR4<O20	S	Y	[Test Case 236], [Test Case 237], [Test Case 238], [Test Case 239], [Test Case 240], [Test Case 241], [Test Case 242], [Test Case 243], [Test Case 244],	If notifications are supported

<b>Requirement</b>	<b>Entity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 245], [Test Case 246], [Test Case 247], [Test Case 248], [Test Case 249], [Test Case 250], [Test Case 251], [Test Case 252], [Test Case 253], [Test Case 254], [Test Case 255], [Test Case 256]	
CR5<O20	S	Y	[Test Case 236], [Test Case 237], [Test Case 238], [Test Case 239], [Test Case 240], [Test Case 241], [Test Case 242], [Test Case 243], [Test Case 244], [Test Case 245], [Test Case 246], [Test Case 247], [Test Case 248], [Test Case 249], [Test Case 250], [Test Case 251], [Test Case 252], [Test Case 253], [Test Case 254], [Test Case 255], [Test Case 256]	If notifications are supported
CR6<O20	S	Y	[Test Case 236], [Test Case 237], [Test Case 238], [Test Case 239], [Test Case 240], [Test Case 241], [Test Case 242], [Test Case 243], [Test Case 244], [Test Case 245], [Test Case 246], [Test Case 247], [Test Case 248],	If notifications are supported



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 249], [Test Case 250], [Test Case 251], [Test Case 252], [Test Case 253], [Test Case 254], [Test Case 255], [Test Case 256]	
CR7<O20	S	Y	[Test Case 236], [Test Case 237], [Test Case 238], [Test Case 239], [Test Case 240], [Test Case 241], [Test Case 242], [Test Case 243], [Test Case 244], [Test Case 245], [Test Case 246], [Test Case 247], [Test Case 248], [Test Case 249], [Test Case 250], [Test Case 251], [Test Case 252], [Test Case 253], [Test Case 254], [Test Case 255], [Test Case 256]	If notifications are supported

Requirement	Entity	Tested	Test Case	Comment
CR8<O20	S	Y	[Test Case 236], [Test Case 237], [Test Case 238], [Test Case 239], [Test Case 240], [Test Case 241], [Test Case 242], [Test Case 243], [Test Case 244], [Test Case 245], [Test Case 246], [Test Case 247], [Test Case 248], [Test Case 249], [Test Case 250], [Test Case 251], [Test Case 252], [Test Case 253], [Test Case 254], [Test Case 255], [Test Case 256]	If notifications are supported

**Table 250 – MEF 80 Requirements for Send Notifications**

## 16.4 Quote Notification Test Cases

### 16.4.1 Register for Quote Notifications Test Case

The test cases for Register for PQO Notification test cases are shown in this section.

[R229] The Buyer and Seller **MUST** complete [Test Case 229] as shown in Table 251.

[Test Case 229] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Quote State Change notifications.		

[Test Case 229] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = QUOTE_STATE_CHANGE, and Action = START.	MEF 80 [9] R92, R93, R94	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 80 [9] R95	

**Table 251 – [Test Case 229]**

[R230]The Buyer and Seller **MUST** complete [Test Case 230] as shown in Table 252.

[Test Case 230] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Quote State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = QUOTE_STATE_CHANGE, and Action = STOP.	MEF 80 [9] R92, R93, R94	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 80 [9] R95	

**Table 252 – [Test Case 230]**

[R231]The Buyer and Seller **MUST** complete [Test Case 231] as shown in Table 253.

[Test Case 231] Register for Quote Notifications, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Quote Item State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = QUOTE_ITEM_STATE_CHANGE, and Action = START.	MEF 80 [9] R92, R93, R94	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 80 [9] R95	

**Table 253 – [Test Case 231]**

[R232]The Buyer and Seller **MUST** complete [Test Case 232] as shown in Table 254.

[Test Case 232] Register for Quote Notifications, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Quote Item State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type =	MEF 80 [9] R92, R93, R94	

[Test Case 232] Register for Quote Notifications, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	QUOTE_ITEM_STATE_CHANGE, and Action = STOP.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 80 [9] R95	

**Table 254 – [Test Case 232]**

[R233]The Buyer and Seller **MUST** complete [Test Case 233] as shown in Table 255.

[Test Case 233] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = START, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = START, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Quote State Change and Quote Item State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = QUOTE_STATE_CHANGE, and Action = START, and the second entry has the Notification Target Information, the Notification Type = QUOTE_ITEM_STATE_CHANGE, and Action = START.	MEF 80 [9] R92, R93, R94	

[Test Case 233] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = START, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = START, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 80 [9] R95	

**Table 255 – [Test Case 233]**

[R234]The Buyer and Seller **MUST** complete [Test Case 234] as shown in Table 256.

[Test Case 234] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = STOP, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = STOP, Positive case			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Quote State Change and Quote Item State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = QUOTE_STATE_CHANGE, and Action = STOP, and the second entry has the Notification Target Information, the Notification Type = QUOTE_ITEM_STATE_CHANGE, and Action = STOP.	MEF 80 [9] R92, R93, R94	



[Test Case 234] Register for Quote Notifications, Notification Type = QUOTE_STATE_CHANGE, Request Action = STOP, Notification Type = QUOTE_ITEM_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.	MEF 80 [9] R95	

Table 256 – [Test Case 234]

[R235]The Buyer and Seller **MUST** complete [Test Case 235] as shown in Table 257.

[Test Case 235] Register for Quote Notifications Request Negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Return Address Information.  The Seller supports Quote notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = QUOTE_STATE_CHANGE, and no action.	MEF 80 [9] R92, R93, R94	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description

[Test Case 235] Register for Quote Notifications Request Negative case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - The Buyer receives a 400 response code indicating a bad request.	MEF 80 [9] R95	

**Table 257 – [Test Case 235]**

#### 16.4.2 Send Quote Notification Test Case

The test case for the Seller generating a Quote Notification to the Buyer when the Buyer has registered for notifications is defined in this section.

##### 16.4.2.1 Send Quote Notification Type = QUOTE\_STATE\_CHANGE

[R236] The Buyer and Seller **MUST** complete [Test Case 236] as shown in Table 258.

[Test Case 236] Seller Generate QUOTE_STATE_CHANGE Notification case, ACKNOWLEDGED to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ACKNOWLEDGED to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from ACKNOWLEDGED to IN_PROGRESS the Seller generates a Quote Notification that includes the Quote ID and Notification Type of	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20,	

[Test Case 236] Seller Generate QUOTE_STATE_CHANGE Notification case, ACKNOWLEDGED to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
	QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 258 – [Test Case 236]**

After completing [Test Case 236], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 227].

[R237]The Buyer and Seller **MUST** complete [Test Case 237] as shown in Table 259.

[Test Case 237] Seller Generate QUOTE_STATE_CHANGE Notification case, ACKNOWLEDGED to REJECTED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ACKNOWLEDGED to REJECTED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from ACKNOWLEDGED to REJECTED the Seller generates a	MEF 80 [9] O20, CR4<O20,	

[Test Case 237] Seller Generate QUOTE_STATE_CHANGE Notification case, ACKNOWLEDGED to REJECTED State			
Entity	TC Step Description	Verified Requirements	Comments
	Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 259 – [Test Case 237]**

After completing [Test Case 237], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to REJECTED. This is described in [Test Case 227].

[R238]The Buyer and Seller **MUST** complete [Test Case 238] as shown in Table 260.

[Test Case 238] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to IN_PROGRESS_DRAFT State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from IN_PROGRESS to IN_PROGRESS_DRAFT.</p> <p>The Seller supports notifications.</p>		



[Test Case 238] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to IN_PROGRESS_DRAFT State			
Entity	TC Step Description	Verified Requirements	Comments
Seller Generates	WHEN – the Quote State changes from IN_PROGRESS to IN_PROGRESS_DRAFT the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

Table 260 – [Test Case 238]

After completing [Test Case 82], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to IN\_PROGRESS\_DRAFT. This is described in [Test Case 227].

[R239]The Buyer and Seller **MUST** complete [Test Case 239] as shown in Table 261.

[Test Case 239] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to CANCELLED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for QUOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].  The Buyer has received a 201 response from the Seller for the Create Quote request.  The Seller is processing the Quote and the state of the Quote changes		

[Test Case 239] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to CANCELLED State			
Entity	TC Step Description	Verified Requirements	Comments
	from IN_PROGRESS to CANCELLED.  The Seller supports notifications.		
Seller Generates	WHEN – the Quote State changes from IN_PROGRESS to CANCELLED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 261 – [Test Case 239]**

After completing [Test Case 239], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to CANCELLED. This is described in [Test Case 227].

[R240]The Buyer and Seller **MUST** complete [Test Case 240] as shown in Table 262.

[Test Case 240] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to ORDERABLE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].  The Buyer has received a 201 response from the Seller for the Create Quote request.		

[Test Case 240] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to ORDERABLE State			
Entity	TC Step Description	Verified Requirements	Comments
	<p>The Seller is processing the Quote and the state of the Quote changes from IN_PROGRESS to ORDERABLE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from IN_PROGRESS to ORDERABLE the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 262 – [Test Case 240]**

After completing [Test Case 240], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ORDERABLE. This is described in [Test Case 227].

[R241]The Buyer and Seller **MUST** complete [Test Case 241] as shown in Table 263.

[Test Case 241] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to ORDERABLE_ALTERNATE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p>		

[Test Case 241] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to ORDERABLE_ALTERNATE State			
Entity	TC Step Description	Verified Requirements	Comments
	<p>The Seller is processing the Quote and the state of the Quote changes from IN_PROGRESS to ORDERABLE_ALTERNATE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from IN_PROGRESS to ORDERABLE_ALTERNATE the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 263 – [Test Case 241]**

After completing [Test Case 241], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ORDERABLE\_ALTERNATE. This is described in [Test Case 227].

[R242]The Buyer and Seller **MUST** complete [Test Case 242] as shown in Table 264.

[Test Case 242] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to UNABLE_TO_PROVIDE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].		



[Test Case 242] Seller Generate QUOTE_STATE_CHANGE Notification case, IN_PROGRESS to UNABLE_TO_PROVIDE State			
Entity	TC Step Description	Verified Requirements	Comments
	<p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from IN_PROGRESS to UNABLE_TO_PROVIDE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from IN_PROGRESS to UNABLE_TO_PROVIDE the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 264 – [Test Case 242]**

After completing [Test Case 242], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to UNABLE\_TO\_PROVIDE. This is described in [Test Case 227].

[R243]The Buyer and Seller **MUST** complete [Test Case 243] as shown in Table 265.

[Test Case 243] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE to DECLINED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has		

[Test Case 243] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE to DECLINED State			
Entity	TC Step Description	Verified Requirements	Comments
	<p>POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ORDERABLE to DECLINED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from ORDERABLE to DECLINED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 265 – [Test Case 243]**

After completing [Test Case 243], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to DECLINED. This is described in [Test Case 227].

[R244]The Buyer and Seller **MUST** complete [Test Case 244] as shown in Table 266.

[Test Case 244] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE to ACCEPTED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE		

[Test Case 244] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE to ACCEPTED State			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ORDERABLE to ACCEPTED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from ORDERABLE to ACCEPTED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 266 – [Test Case 244]**

After completing [Test Case 244], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ACCEPTED. This is described in [Test Case 227].

[R245]The Buyer and Seller **MUST** complete [Test Case 245] as shown in Table 267.

[Test Case 245] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE to EXPIRED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ORDERABLE to EXPIRED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote State changes from ORDERABLE to EXPIRED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 267 – [Test Case 245]**

After completing [Test Case 245], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to EXPIRED. This is described in [Test Case 227].

[R246]The Buyer and Seller **MUST** complete [Test Case 246] as shown in Table 268.

[Test Case 246] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE_ALTERNATE to DECLINED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ORDERABLE_ALTERNATE to DECLINED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote State changes from ORDERABLE_ALTERNATE to DECLINED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 268 – [Test Case 246]**

After completing [Test Case 246], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to DECLINED. This is described in [Test Case 227].

[R247]The Buyer and Seller **MUST** complete [Test Case 247] as shown in Table 269.



[Test Case 247] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE_ALTERNATE to ACCEPTED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ORDERABLE_ALTERNATE to ACCEPTED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Quote State changes from ORDERABLE_ALTERNATE to ACCEPTED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

Table 269 – [Test Case 247]

After completing [Test Case 247], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ACCEPTED. This is described in [Test Case 227].

[R248]The Buyer and Seller **MUST** complete [Test Case 248] as shown in Table 270.

[Test Case 248] Seller Generate QUOTE_STATE_CHANGE Notification case, ORDERABLE_ALTERNATE to EXPIRED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUIOTE_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from ORDERABLE_ALTERNATE to EXPIRED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote State changes from ORDERABLE_ALTERNATE to EXPIRED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 270 – [Test Case 248]**

After completing [Test Case 248], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to EXPIRED. This is described in [Test Case 227].

#### **16.4.2.2 Send Quote Notification Type = QUOTE\_ITEM\_STATE\_CHANGE**

The test cases for Quote Notifications with the Notification Type of QUOTE\_ITEM\_STATE\_CHANGE are defined in this section.

[R249]The Buyer and Seller **MUST** complete [Test Case 249] as shown in Table 271.



[Test Case 249] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from ACKNOWLEDGED to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from ACKNOWLEDGED to IN_PROGRESS the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

Table 271 – [Test Case 249]

After completing [Test Case 249], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 227].

[R250]The Buyer and Seller **MUST** complete [Test Case 250] as shown in Table 272.



[Test Case 250] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to REJECTED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from ACKNOWLEDGED to REJECTED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from ACKNOWLEDGED to REJECTED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 272 – [Test Case 250]**

After completing [Test Case 250], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to REJECTED. This is described in [Test Case 227].

[R251]The Buyer and Seller **MUST** complete [Test Case 251] as shown in Table 273.

[Test Case 251] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, IN_PROGRESS to IN_PROGRESS_DRAFT State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from IN_PROGRESS to IN_PROGRESS_DRAFT.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from IN_PROGRESS to IN_PROGRESS_DRAFT the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 273 – [Test Case 251]**

After completing [Test Case 251], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to IN\_PROGRESS\_DRAFT. This is described in [Test Case 227].

[R252]The Buyer and Seller **MUST** complete [Test Case 252] as shown in Table 274.

[Test Case 252] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, IN_PROGRESS to ORDERABLE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from IN_PROGRESS to ORDERABLE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from IN_PROGRESS to ORDERABLE the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 274 – [Test Case 252]**

After completing [Test Case 252], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ORDERABLE. This is described in [Test Case 227].

[R253]The Buyer and Seller **MUST** complete [Test Case 253] as shown in Table 275.

[Test Case 253] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, IN_PROGRESS to ORDERABLE_ALTERNATE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from IN_PROGRESS to ORDERABLE_ALTERNATE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from IN_PROGRESS to ORDERABLE_ALTERNATE the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 275 – [Test Case 253]**

After completing [Test Case 253], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ORDERABLE\_ALTERNATE. This is described in [Test Case 227].

[R254]The Buyer and Seller **MUST** complete [Test Case 254] as shown in Table 276.

[Test Case 254] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, IN_PROGRESS to UNABLE_TO_PROVIDE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from IN_PROGRESS to UNABLE_TO_PROVIDE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from IN_PROGRESS to UNABLE_TO_PROVIDE the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 276 – [Test Case 254]**

After completing [Test Case 254], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to UNABLE\_TO\_PROVIDE. This is described in [Test Case 227].

[R255]The Buyer and Seller **MUST** complete [Test Case 255] as shown in Table 277.

[Test Case 255] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to ABANDONED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote Item changes from ACKNOWLEDGED to ABANDONED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from ACKNOWLEDGED to ABANDONED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 277 – [Test Case 255]**

After completing [Test Case 255], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ABANDONED. This is described in [Test Case 227].

[R256]The Buyer and Seller **MUST** complete [Test Case 256] as shown in Table 278.



[Test Case 256] Seller Generate QUOTE_ITEM_STATE_CHANGE Notification case, IN_PROGRESS to ABANDONED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for QUOTE_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Quote request as described in [Test Case 229].</p> <p>The Buyer has received a 201 response from the Seller for the Create Quote request.</p> <p>The Seller is processing the Quote and the state of the Quote changes from IN_PROGRESS to ABANDONED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Quote Item State changes from IN_PROGRESS to ABANDONED the Seller generates a Quote Notification that includes the Quote ID and Notification Type of QUOTE_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 80 [9] O20, CR4<O20, CR5<O20, CR6<O20, CR7<O20, CR8<O20	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

Table 278 – [Test Case 256]

After completing [Test Case 256], a Retrieve Quote by Quote Identifier is performed to ensure that the Quote State has changed appropriately to ABANDONED. This is described in [Test Case 227].

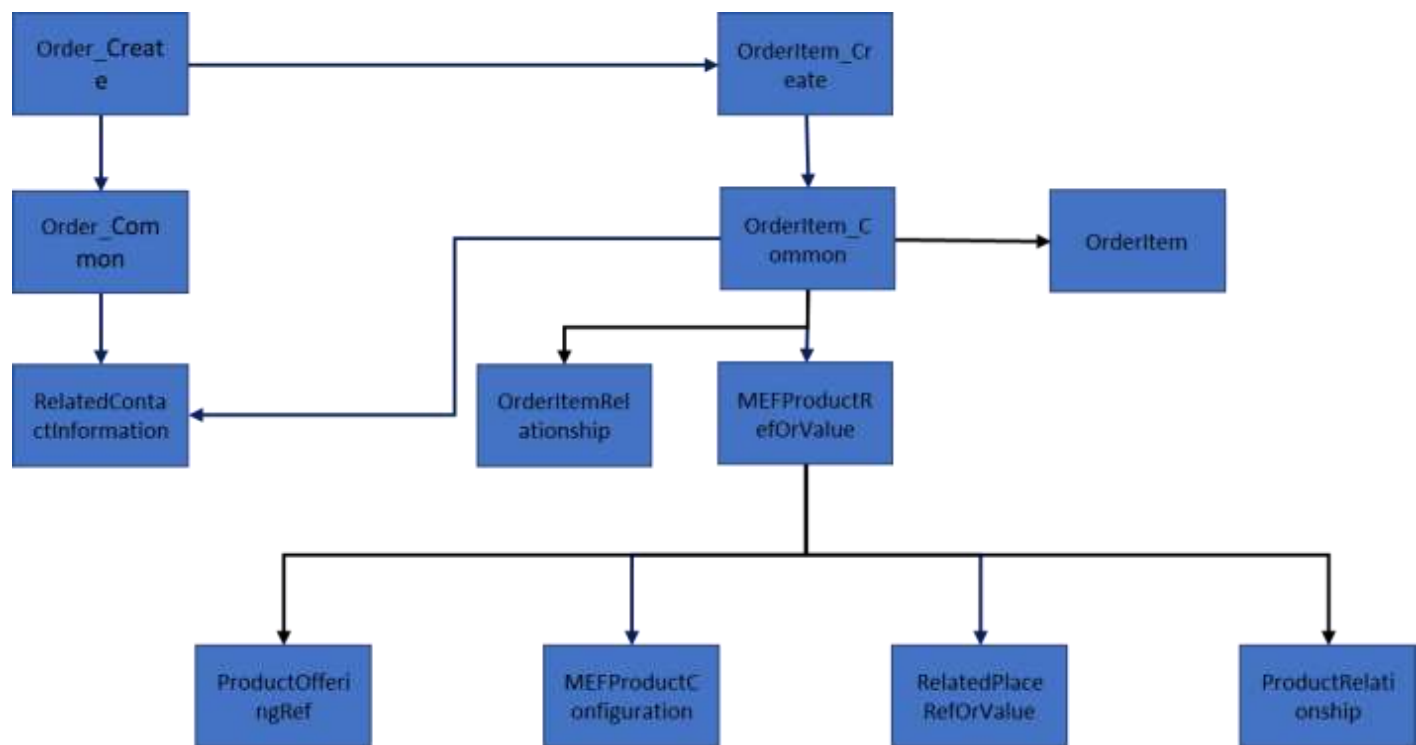
## 17 Product Order MEF 57.1

MEF 57.1 [4] will be made obsolete by MEF 57.2 [5] once MEF 57.2 reaches Letter Ballot. Release Candidate 4 of the Product Order API used MEF 57.1 to define the Business Requirements and Use Cases. This section of the document is included to describe the behavior defined in MEF 57.1 for implementations of the Product Order API that are based on it. SDK releases after Release Candidate 4 are based on MEF 57.2 and are addressed in the sections focused on that version of MEF 57.

The Product Order requirements and test cases as specified in MEF 57.1 [4][5] are defined in this section. MEF 57.1 [4] is specific to the Access E-Line Product as defined by MEF. Three types of Product Orders, New, Change, and Disconnect, are defined within MEF 57.1 [4].

### 17.1 Product Order API Overview MEF 57.1

An overview of the Product Order API as specified in MEF 57.1 [4] is provided in this section.



**Figure 32 – Create Product Order API Overview**

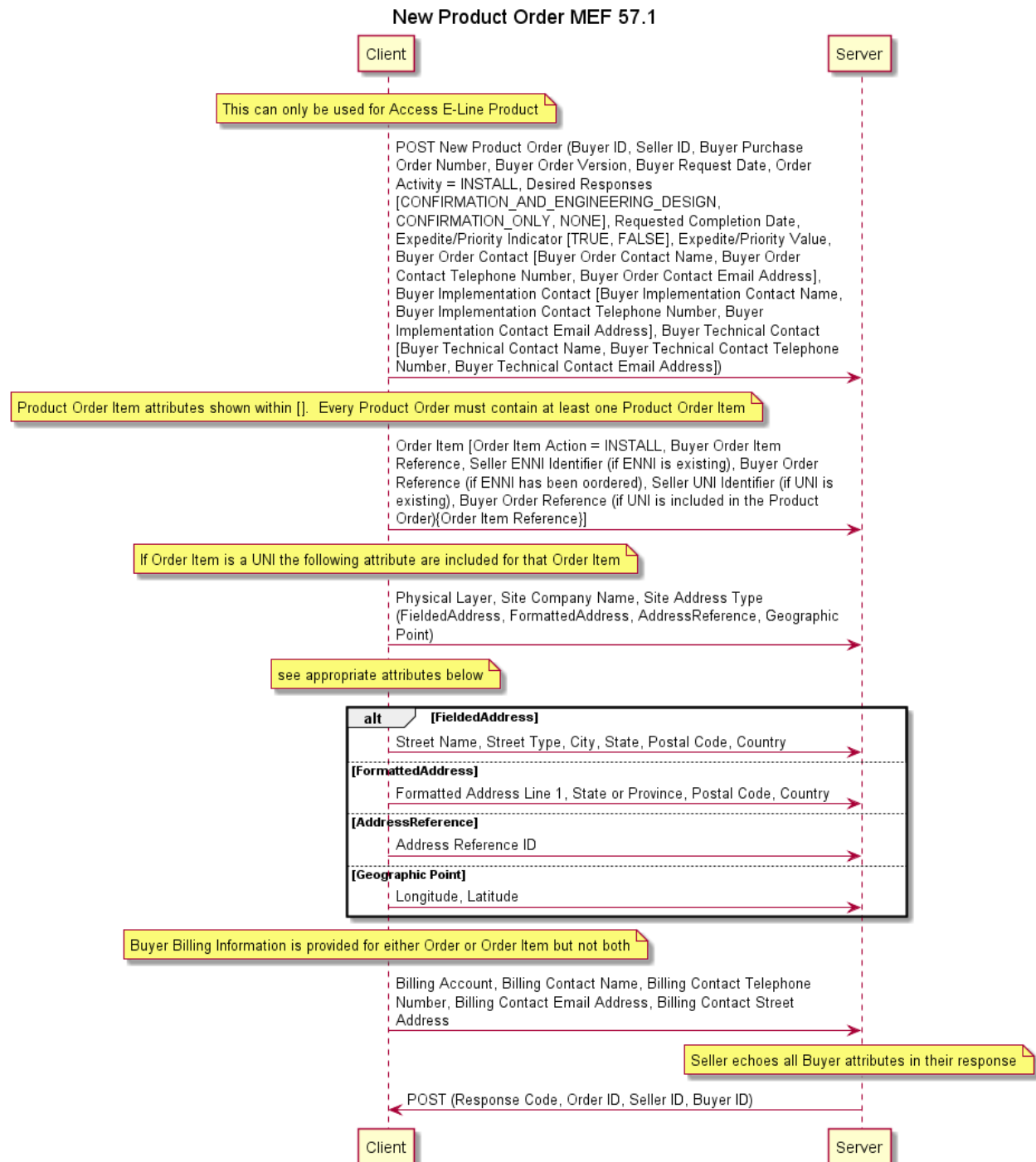
### 17.2 Product Order Sequence Diagrams MEF 57.1

The Product Order sequence diagrams as specified in MEF 57.1 [4] is shown in this section.



## 17.2.1 New Product Order Sequence Diagram

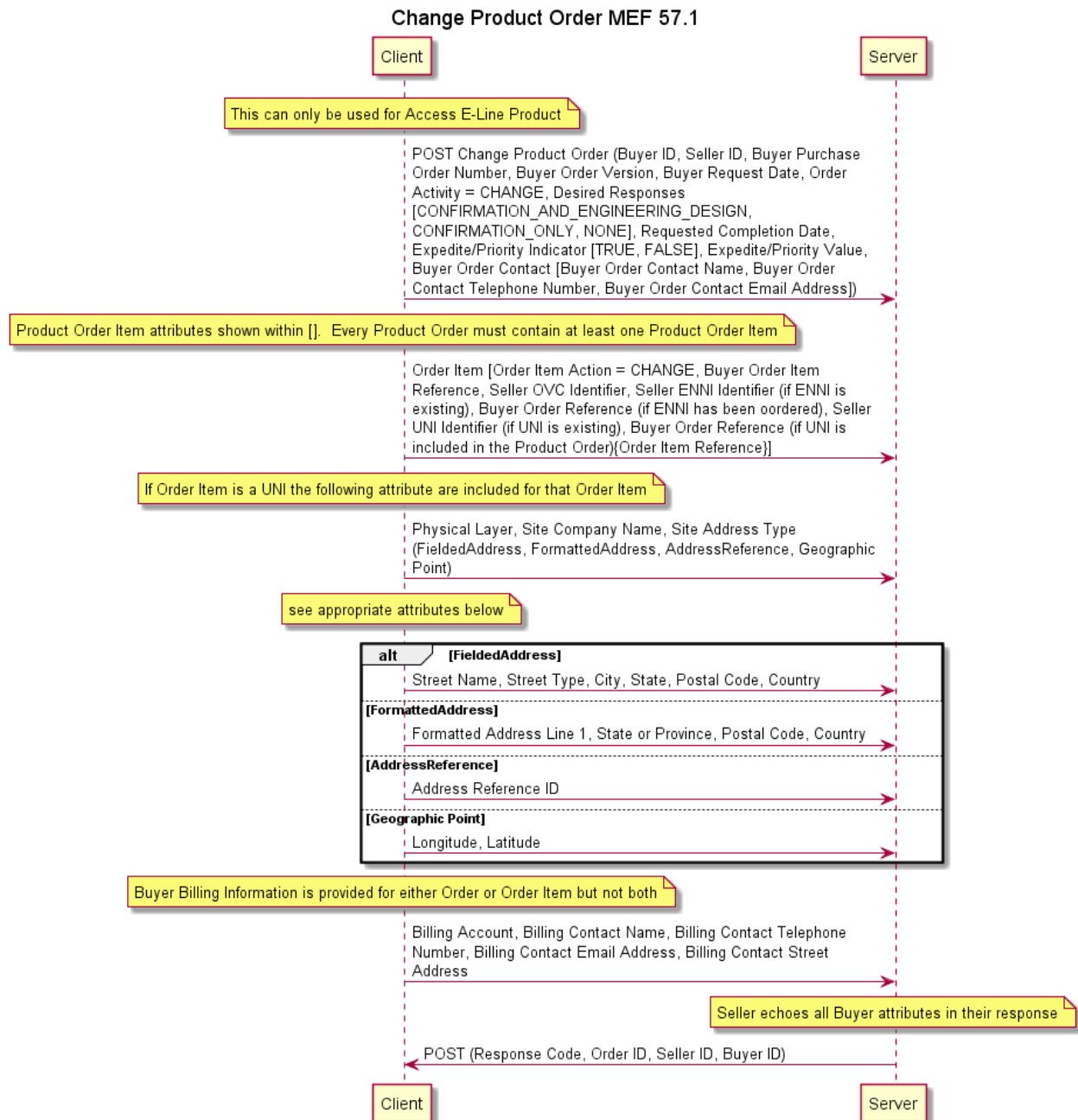
The sequence diagram for New Product Orders is shown in this section.



**Figure 33 – New Product Order Sequence Diagram**

## 17.2.2 Change Product Order Sequence Diagram

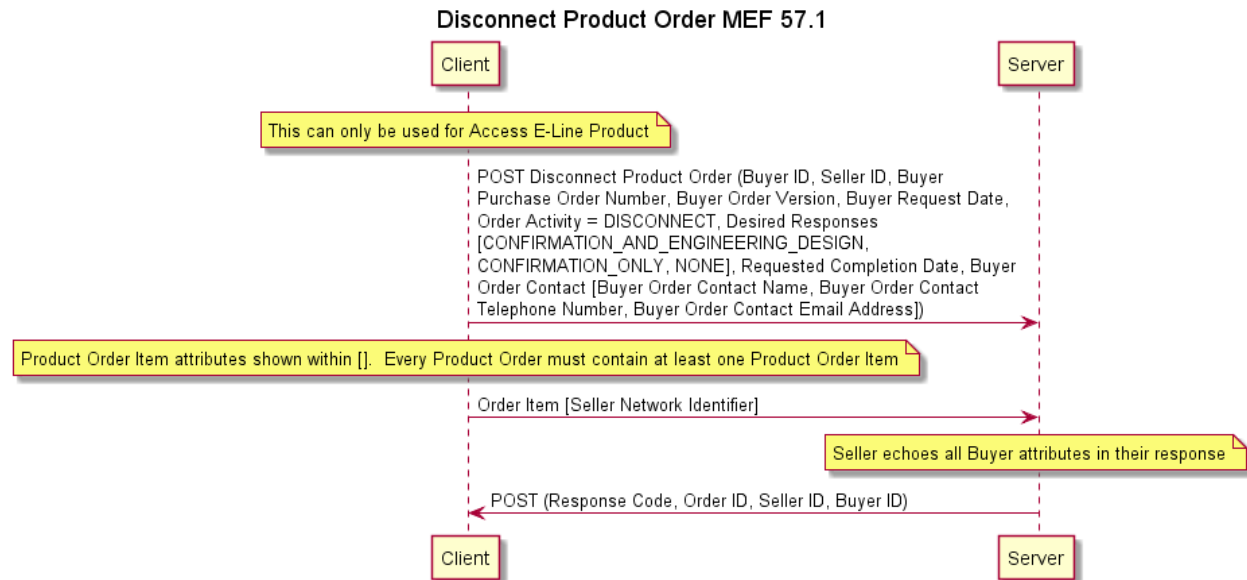
The sequence diagram for Change Product Orders is shown in this section.



**Figure 34 – Change Product Order Sequence Diagram**

## 17.2.3 Disconnect Product Order Sequence Diagram

The sequence diagram for Disconnect Product Orders is shown in this section.



**Figure 35 – Disconnect Product Order Sequence Diagram**

### 17.3 Product Order Requirements MEF 57.1

MEF 57.1 [4] does not have any numbered requirements in the document. For this reason, the requirement to test case mapping tables are omitted from this section of the document.

### 17.4 Product Order Test Cases MEF 57.1

The Product Order Test Cases as specified in MEF 57.1 [4] are defined in this section.

#### 17.4.1 New Product Order Test Cases MEF 57.1

The New Product Order requirements and test cases based on MEF 57.1 [4] are defined in this section of the document.

[R257]The Buyer and Seller **MUST** complete [Test Case 257] as shown in Table 279.

[Test Case 257] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 or 5, MEF 57.1, and has identified a Product		



[Test Case 257] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_AND_ENGINEERING_DESIGN, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type FieldedAddress, FieldedAddress (Street Name,		

[Test Case 257] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Street Type, City, State or Province, Postal Code, Country)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 279 – [Test Case 257]**

[R258]The Buyer and Seller **MUST** complete [Test Case 258] as shown in Table 280.

[Test Case 258] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FormattedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_AND_ENGINEERING_DESIGN, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer		

[Test Case 258] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FormattedAddress, Positive case			
	TC Step Description	Verified Requirements	Comments
	Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type FormattedAddress, FormattedAddress (Formatted Address Line 1, State or Province, Postal Code, Country)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

Table 280 – [Test Case 258]

[R259]The Buyer and Seller **MUST** complete [Test Case 259] as shown in Table 281.



[Test Case 259] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = AddressReference, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Site.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_AND_ENGINEERING_DESIGN, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site</p>		

[Test Case 259] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = AddressReference, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Address Type = AddressReference, AddressReference (Address Reference ID)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 281 – [Test Case 259]**

[R260]The Buyer and Seller **MUST** complete [Test Case 260] as shown in Table 282.

[Test Case 260] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = GeographicPoint, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_AND_ENGINEERING_DESIGN, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact		



[Test Case 260] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = GeographicPoint, Positive case			
	TC Step Description	Verified Requirements	Comments
	(Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type = GeographicPoint, GeographicPoint (Longitude, Latitude)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 282 – [Test Case 260]**

[R261]The Buyer and Seller **MUST** complete [Test Case 261] as shown in Table 318.

<p>[Test Case 261] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case</p>			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Site.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_ONLY, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site</p>		

[Test Case 261] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Address Type FieldedAddress, FieldedAddress (Street Name, Street Type, City, State or Province, Postal Code, Country)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 283 – [Test Case 261]**

[R262]The Buyer and Seller **MUST** complete [Test Case 262] as shown in Table 284.

[Test Case 262] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FormattedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_ONLY, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority		

[Test Case 262] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FormattedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type FormattedAddress, FormattedAddress (Formatted Address Line 1, State or Province, Postal Code, Country)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 284 – [Test Case 262]**

[R263]The Buyer and Seller **MUST** complete [Test Case 263] as shown in Table 285.



[Test Case 263] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = AddressReference, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Site.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_ONLY, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site</p>		

[Test Case 263] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = AddressReference, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Address Type = AddressReference, AddressReference (Address Reference ID)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 285 – [Test Case 263]**

[R264]The Buyer and Seller **MUST** complete [Test Case 264] as shown in Table 286.

[Test Case 264] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = GeographicPoint, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = CONFIRMATION_ONLY, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact		

[Test Case 264] New Product Order, Order Activity = INSTALL, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = GeographicPoint, Positive case			
	TC Step Description	Verified Requirements	Comments
	(Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type = GeographicPoint, GeographicPoint (Longitude, Latitude)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

Table 286 – [Test Case 264]

[R265]The Buyer and Seller **MUST** complete [Test Case 265] as shown in Table 287.



[Test Case 265] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Site.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = NONE, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type FieldedAddress, FieldedAddress</p>		



[Test Case 265] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FieldedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	(Street Name, Street Type, City, State or Province, Postal Code, Country)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 287 – [Test Case 265]**

[R266]The Buyer and Seller **MUST** complete [Test Case 266] as shown in Table 288.

[Test Case 266] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FormattedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = NONE, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order		

[Test Case 266] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = FormattedAddress, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type FormattedAddress, FormattedAddress (Formatted Address Line 1, State or Province, Postal Code, Country)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 288 – [Test Case 266]**

[R267]The Buyer and Seller **MUST** complete [Test Case 267] as shown in Table 289.



[Test Case 267] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = AddressReference, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Site.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = NONE, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type</p>		

[Test Case 267] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = AddressReference, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	= AddressReference, AddressReference (Address Reference ID)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 289 – [Test Case 267]**

[R268]The Buyer and Seller **MUST** complete [Test Case 268] as shown in Table 290.

[Test Case 268] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = GeographicPoint, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product Offering they wish to order at a specified Site.  The Seller supports Product Orders, supports the identified Product Offering at the specified Site.		
Buyer Request	WHEN – The Buyer POSTs a New Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = INSTALL, Desired Response = NONE, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer		

[Test Case 268] New Product Order, Order Activity = INSTALL, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = INSTALL, Existing ENNI, Ordered UNI, Site Company Name, Site Address Type = GeographicPoint, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Contact Email Address), Buyer Implementation Contact (Buyer Implementation Contact Name, Buyer Implementation Contact Telephone Number, Buyer Implementation Contact Email Address), Buyer Technical Contact (Buyer Technical Contact Name, Buyer Technical Contact Telephone Number, Buyer Technical Contact Email Address), Order Item Action = INSTALL, Buyer Order Item Reference, Seller ENNI Reference, Ordered UNI Reference (Buyer Order Reference, Order Item Reference), Physical Layer, UNI Site Information (Site Company Name, Site Address Type = GeographicPoint, GeographicPoint (Longitude, Latitude)		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier		

**Table 290 – [Test Case 268]**

#### 17.4.2 Change Product Order Test Cases MEF 57.1

The Change Product Order requirements and test cases based on MEF 57.1 [4] are defined in this section of the document.

[R269]The Buyer and Seller **MUST** complete [Test Case 269] as shown in Table 291.

[Test Case 269] New Product Order, Order Activity = CHANGE, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = CHANGE, Existing ENNI, Existing UNI, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product they wish to change.</p> <p>The Product specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Change Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = CHANGE, Desired Response = CONFIRMATION_AND_ENGINEERING_DESIGN, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Order Item Action = CHANGE, Buyer Order Item Reference, Seller ENNI Reference, Existing UNI Reference (Seller UNI Identifier)</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier</p>		

**Table 291 – [Test Case 269]**

[R270]The Buyer and Seller **MUST** complete [Test Case 270] as shown in Table 292.

[Test Case 270] New Product Order, Order Activity = CHANGE, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = CHANGE, Existing ENNI, Existing UNI, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product they wish to change.</p> <p>The Product specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Change Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = CHANGE, Desired Response = CONFIRMATION_ONLY, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Order Item Action = CHANGE, Buyer Order Item Reference, Seller ENNI Reference, Existing UNI Reference (Seller UNI Identifier)</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier</p>		

**Table 292 – [Test Case 270]**

[R271]The Buyer and Seller **MUST** complete [Test Case 271] as shown in Table 293.

[Test Case 271] New Product Order, Order Activity = CHANGE, Desired Responses = NONE, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Order Item Action = CHANGE, Existing ENNI, Existing UNI, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product they wish to change.</p> <p>The Product specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Change Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = CHANGE, Desired Response = NONE, Requested Completion Date, Expedite/Priority Indicator = True, Expedite/Priority Value = 1, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Order Item Action = CHANGE, Buyer Order Item Reference, Seller ENNI Reference, Existing UNI Reference (Seller UNI Identifier)</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier</p>		

Table 293 – [Test Case 271]

### 17.4.3 Disconnect Product Order Test Cases MEF 57.1

The Disconnect Product Order requirements and test cases based on MEF 57.1 [4] are defined in this section of the document.

[R272]The Buyer and Seller **MUST** complete [Test Case 272] as shown in Table 294.



[Test Case 272] New Product Order, Order Activity = DISCONNECT, Desired Responses = CONFIRMATION_AND_ENGINEERING_DESIGN, Expedite/Priority Indicator = False, Order Item Action = DISCONNECT, Existing ENNI, Existing UNI, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product they wish to disconnect.</p> <p>The Product specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Change Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = DISCONNECT, Desired Response = CONFIRMATION_AND_ENGINEERING_DESIGN, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Order Item Action = DISCONNECT, Buyer Order Item Reference, Seller ENNI Reference, Existing UNI Reference (Seller UNI Identifier)</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier</p>		

**Table 294 – [Test Case 272]**

[R273]The Buyer and Seller **MUST** complete [Test Case 273] as shown in Table 295.

[Test Case 273] New Product Order, Order Activity = DISCONNECT, Desired Responses = CONFIRMATION_ONLY, Expedite/Priority Indicator = False, Order Item Action = DISCONNECT, Existing ENNI, Existing UNI, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product they wish to disconnect.</p> <p>The Product specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Change Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = DISCONNECT, Desired Response = CONFIRMATION_ONLY, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Order Item Action = DISCONNECT, Buyer Order Item Reference, Seller ENNI Reference, Existing UNI Reference (Seller UNI Identifier)</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier</p>		

**Table 295 – [Test Case 273]**

[R274]The Buyer and Seller **MUST** complete [Test Case 274] as shown in Table 296.

[Test Case 274] New Product Order, Order Activity = DISCONNECT, Desired Responses = NONE, Expedite/Priority Indicator = False, Order Item Action = DISCONNECT, Existing ENNI, Existing UNI, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has identified a Product they wish to disconnect.</p> <p>The Product specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Change Product Order request that contains Buyer Purchase Order Number, Buyer Order Version, Buyer Request Date, Order Activity = DISCONNECT, Desired Response = NONE, Requested Completion Date, Expedite/Priority Indicator = False, Buyer Order Contact (Buyer Order Contact Name, Buyer Order Contact Telephone Number, Buyer Contact Email Address), Order Item Action = DISCONNECT, Buyer Order Item Reference, Seller ENNI Reference, Existing UNI Reference (Seller UNI Identifier)</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Identifier</p>		

**Table 296 – [Test Case 274]**

## 18 Cancel In-Flight Order MEF 57.1

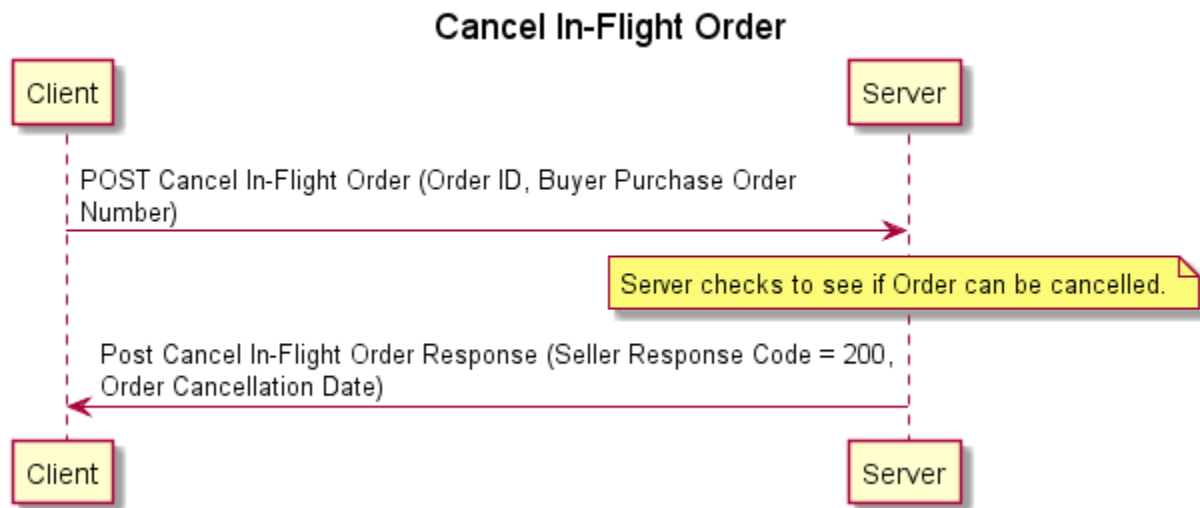
The Cancel In-Flight Order requirements and test cases as specified in MEF 57.1 [4] are defined in this section. MEF 57.1 [4] is specific to the Access E-Line Product as defined by MEF.

### 18.1 Cancel In-Flight Order API Overview MEF 57.1

See section 17.1 for an overview of the Product Order API.

### 18.2 Cancel In-Flight Order Sequence Diagrams MEF 57.1

The Cancel In-Flight Order sequence diagrams as specified in MEF 57.1 [4] is shown in this section.



**Figure 36 – Cancel In-Flight Order Sequence Diagram**

### 18.3 Cancel In-Flight Order Requirements MEF 57.1

MEF 57.1 [4] does not have any numbered requirements in the document. For this reason, the requirement to test case mapping tables are omitted from this section of the document.

### 18.4 Cancel In-Flight Order Test Cases MEF 57.1

The Cancel In-Flight Order Test Cases as specified in MEF 57.1 [4] are defined in this section.

[R275]The Buyer and Seller **MUST** complete [Test Case 275] as shown in Table 297.



[Test Case 275] Cancel In-Flight Order, Order ID, Buyer Purchase Order Number, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded using SDK RC 4 OR 5, MEF 57.1, and has an in-flight Order that they wish to cancel.  The Order specified by the Buyer exists within the Seller’s systems and is assigned to the Buyer.		
Buyer Request	WHEN – The Buyer POSTs a Cancel In-Flight Order request that contains Order ID, Buyer Purchase Order Number		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Order Cancellation Date		

Table 297 – [Test Case 275]

## 19 Query Order MEF 57.1

MEF 57.1 includes two types of queries, a Query Order List and Query Order Details. The requirements and test cases as specified in MEF 57.1 [4] are defined in this section. MEF 57.1 [4] is specific to the Access E-Line Product as defined by MEF.

### 19.1 Query Order API Overview MEF 57.1

An overview of the Query Order API as specified in MEF 57.1 [4] is provided in this section.

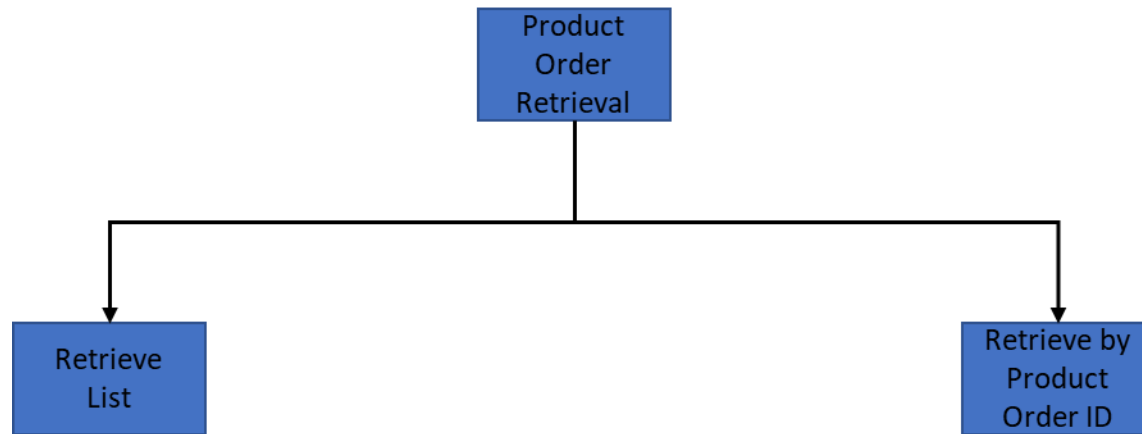


Figure 37 – Query Order API Overview

### 19.2 Query Order Sequence Diagrams MEF 57.1

The Query Order sequence diagrams as specified in MEF 57.1 [4] are shown in this section.

#### 19.2.1 Query Order List Sequence Diagram

The Query Order List sequence diagram is shown in this section.

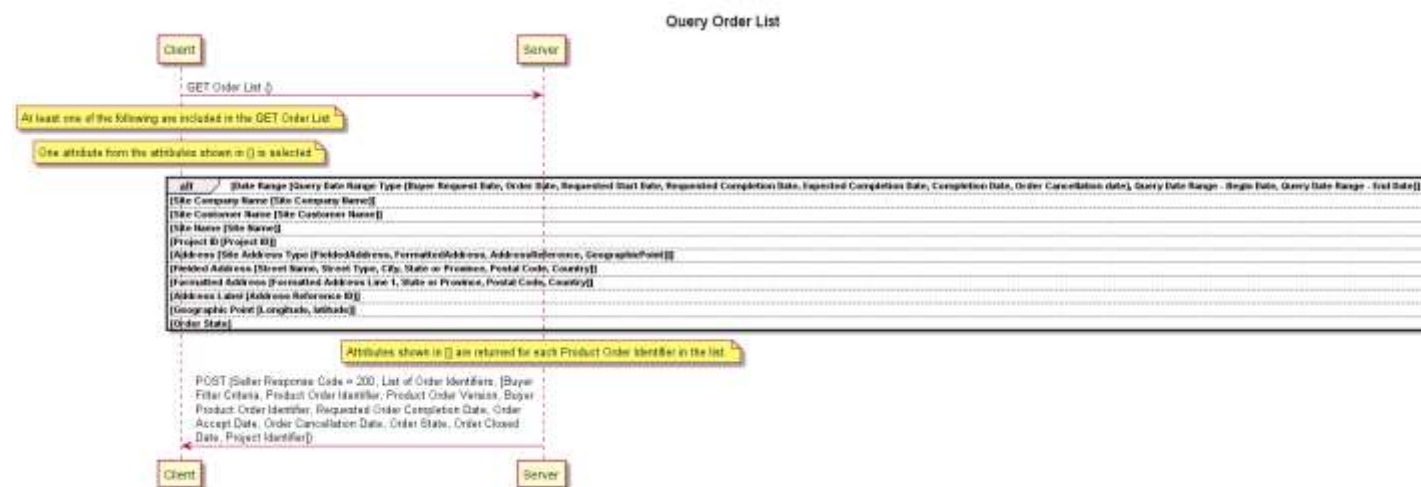
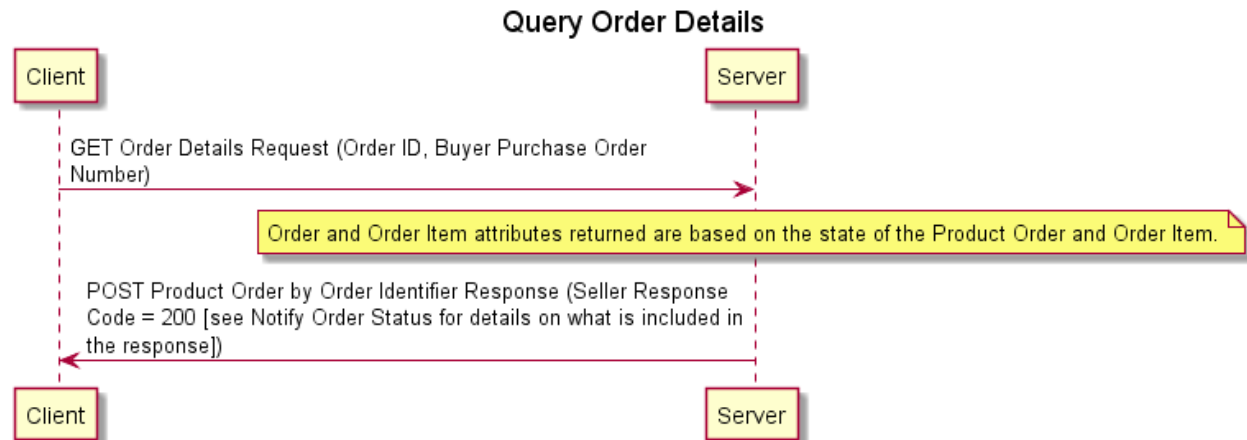


Figure 38 – Query Order List Sequence Diagram

*Editor Note 11: MEF 57.1 is not clear on what is returned by the Seller.*

### 19.2.2 Query Order Details Sequence Diagram

The Query Order Details sequence diagram is shown in this section.



**Figure 39 – Query Order Details Sequence Diagram**

### 19.3 Query Order Requirements MEF 57.1

MEF 57.1 [4] does not have any numbered requirements in the document. For this reason, the requirement to test case mapping tables are omitted from this section of the document.

### 19.4 Query Order Test Cases MEF 57.1

The Query Order Test Cases as specified in MEF 57.1 [4] are defined in this section.

#### 19.4.1 Query Order List Test Cases MEF 57.1

The Query Order List requirements and test cases are defined in this section.

[R276]The Buyer and Seller **MUST** complete [Test Case 276] as shown in Table 298.

[Test Case 276] Query Order List, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer desires to retrieve a list of Product Orders and they determine which if any filter criteria they want to use.		



[Test Case 276] Query Order List, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	There is at least one Product Order in the Seller's system that is assigned to the Buyer and matches any filter criteria used by the Buyer.		
Buyer Request	WHEN - the Buyer submits a GET Product Order that may contain one or more of the filter criteria, State, Buyer Request Date GT, Buyer Request Date LT, Order Date GT, Order Date LT, Order Requested Start Date GT, Order Requested Start Date LT, Requested Completion Date GT, Requested Completion Date LT, Expected Completion Date GT, Expected Completion Date LT, Completion Date GT, Completion Date LT, Order Cancellation Date GT, Order Cancellation Date LT, Site Company Name, Site Customer Name, Site Name, Project ID, Site Address Type, Order State (acknowledged, assessingCancellation, cancelled, completed, failed, held, inProgress, inProgress.configured, inProgress.confirmed, inProgress.jeopardy, partial, pendingCancellation, rejected)		



[Test Case 276] Query Order List, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 200 response from the Seller indicating success. The Seller response includes indications that the response was throttled due to too many records, the result count = (number of results returned), the total count of records found = (number of matching records found).</p> <p>For each record returned the response includes Order ID, Buyer Purchase Order Number, Order Date, Order State (acknowledged, assessingCancellation, cancelled, completed, failed, held, inProgress, inProgress.configured, inProgress.confirmed, inProgress.jeopardy, partial, pendingCancellation, rejected)</p>		

**Table 298 – [Test Case 276]**

[R277]The Buyer and Seller **MUST** complete [Test Case 277] as shown in Table 299.

[Test Case 277] Query Order List, No Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve a list of Product Orders and they determine which if any filter criteria they want to use.</p> <p>There are zero Product Orders in the Seller's system that are assigned to the Buyer and match any filter criteria used by the Buyer.</p>		
Buyer Request	WHEN - the Buyer submits a GET Product Order that may contain one or more of the filter criteria, State, Buyer Request Date GT, Buyer Re-		

[Test Case 277] Query Order List, No Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	quest Date LT, Order Date GT, Order Date LT, Order Requested Start Date GT, Order Requested Start Date LT, Requested Completion Date GT, Requested Completion Date LT, Expected Completion Date GT, Expected Completion Date LT, Completion Date GT, Completion Date LT, Order Cancellation Date GT, Order Cancellation Date LT, Site Company Name, Site Customer Name, Site Name, Project ID, Site Address Type, Order State (acknowledged, assessingCancellation, cancelled, completed, failed, held, inProgress, inProgress.configured, inProgress.confirmed, inProgress.jeopardy, partial, pendingCancellation, rejected)		
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success with an empty list. The Seller response includes indications that the result count = 0 and the total count of records found = 0.		

Table 299 – [Test Case 277]

[R278]The Buyer and Seller **MUST** complete [Test Case 278] as shown in Table 300.

[Test Case 278] Query Order List, Missing Attribute, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve a list of Product Orders and they determine which if any filter criteria they want to use.</p> <p>There is at least one Product Order in the Seller's system that is assigned to the Buyer and matches any filter criteria used by the Buyer.</p>		

[Test Case 278] Query Order List, Missing Attribute, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	The Buyer uses the Requested Completion Date criteria and omits the less than date.		
Buyer Request	WHEN - The Buyer submits a GET Product Order List that includes the Requested Completion Date (greater than) and omits the less than date.		
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response with error indicator from the Seller. The Seller response does not include any additional information.		

Table 300 – [Test Case 278]

#### 19.4.2 Query Order Details Test Cases MEF 57.1

The Query Order details requirements and test cases are defined in this section.

[R279]The Buyer and Seller **MUST** complete [Test Case 279] as shown in Table 301.

[Test Case 279] Query Order Details, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer desires to retrieve the details on a specified Product Order.  There is a Product Order with a matching Order ID in the Seller's system		
Buyer Request	WHEN – the Buyer submits a GET retrieveProductOrder that includes		

[Test Case 279] Query Order Details, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	the Order Identifier and Buyer Purchase Order Number.		
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success. The Seller response includes Order ID, Buyer Purchase Order Number, Order Date, Requested Completion Date, Order State (acknowledged, assessingCancellation, cancelled, completed, failed, held, inProgress, inProgress.configured, inProgress.confirmed, inProgress.jeopardy, partial, pendingCancellation, rejected) , Requested Start Date, Expected Completion Date, Completion Date, Cancellation Date, Cancellation Reason, Expedite/Priority Indicator, Priority, Order Activity, Desired Responses, Order Version, Project ID, TSP Restoration Priority, Pricing Reference, Pricing Term, Billing Account, Note, Buyer Order Item Reference, Order Item Action, Order Item State, Pricing Reference, Pricing Term, Billing Account, Product Offering, Related Party, Product (Seller UNI Identifier, Seller ENNI Identifier, Seller OVC Identifier), Order Item Relationship, Quote ID, State Change		

**Table 301 – [Test Case 279]**

[R280]The Buyer and Seller **MUST** complete [Test Case 280] as shown in Table 302.



[Test Case 280] Query Order Details, No Matching Product Order Found, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer desires to retrieve the details on a specified Product Order.  There is not a Product Order with a matching Order ID in the Seller's system,		
Buyer Request	WHEN – the Buyer submits a GET retrieveProductOrder that includes the Product Order Identifier.		
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 404 response from the Seller indicating that the Product Order ID was not found.		

Table 302 – [Test Case 280]

## 20 Notify Order Status and Complete Order MEF 57.1

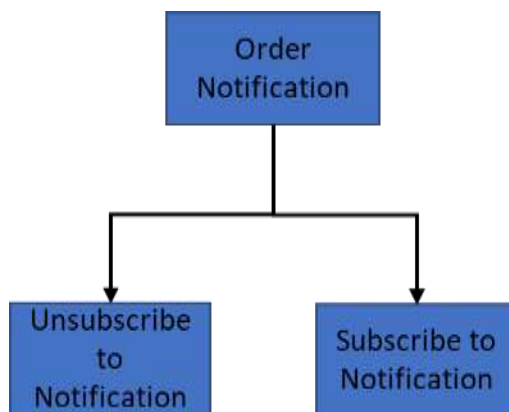
The requirements and test cases as specified in MEF 57.1 [4] are defined in this section. MEF 57.1 [4] is specific to the Access E-Line Product as defined by MEF. It should be noted that MEF 57.1 does not have any requirements or attributes covering subscription to notifications. The Register Notification portions in this section use the API to define the attributes and requirements.

### 20.1 Notify Order Status and Complete Order API Overview MEF 57.1

An overview of the Notify Order Status and Complete Order API as specified in MEF 57.1 [4] is provided in this section.

#### 20.1.1 Register for Notifications API Overview

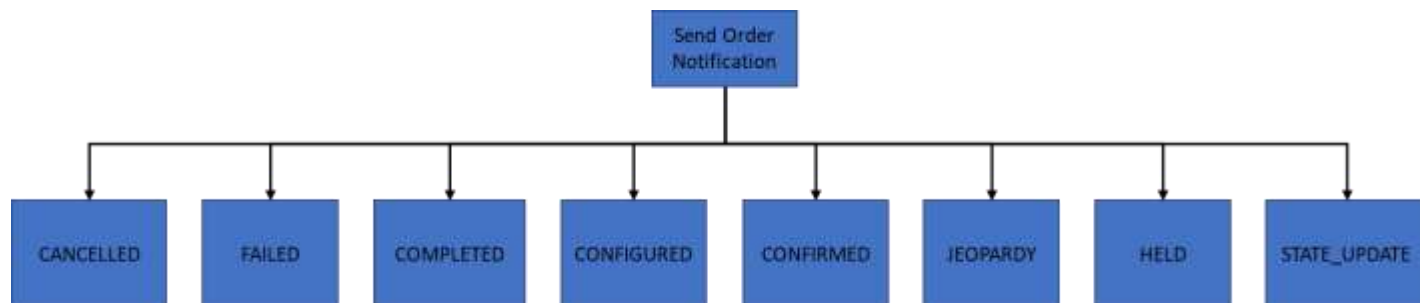
Registration for Notifications is contained in the Order Management API.



**Figure 40 – Register for Order Notifications API Overview**

#### 20.1.2 Send Notifications

Send Notifications is contained in the Order Notifications API.



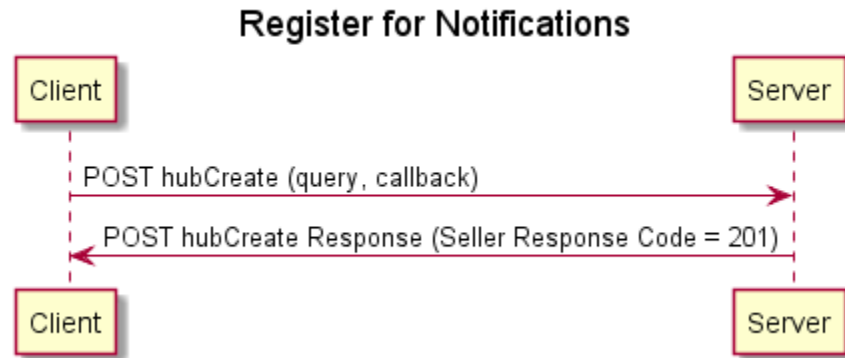
**Figure 41 – Send Order Notification and Status API Overview**

## 20.2 Notify Order Status and Complete Order Sequence Diagrams MEF 57.1

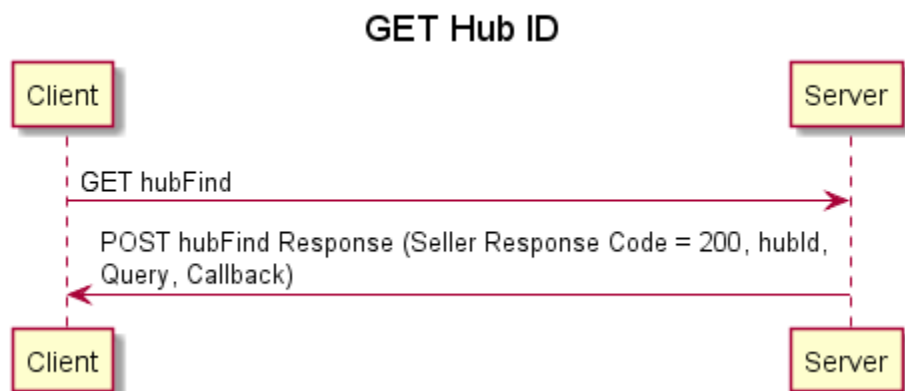
The Notify Order Status and Complete Order sequence diagrams as specified in MEF 57.1 [4] are shown in this section.

### 20.2.1 Register for Notification Sequence Diagrams MEF 57.1

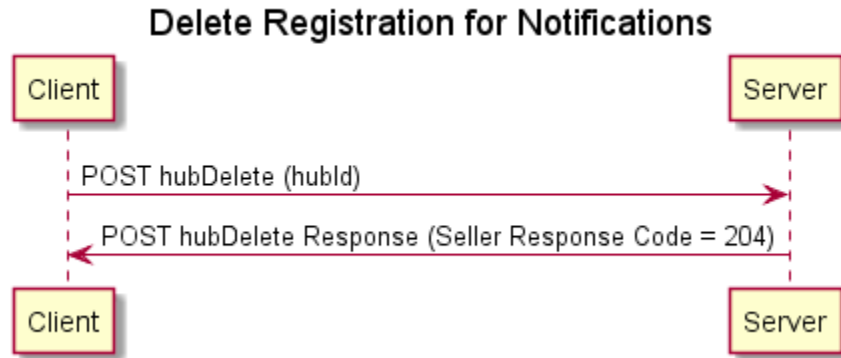
The Register for Notifications sequence diagrams are shown in this section.



**Figure 42 – Register for Notification Sequence Diagram**



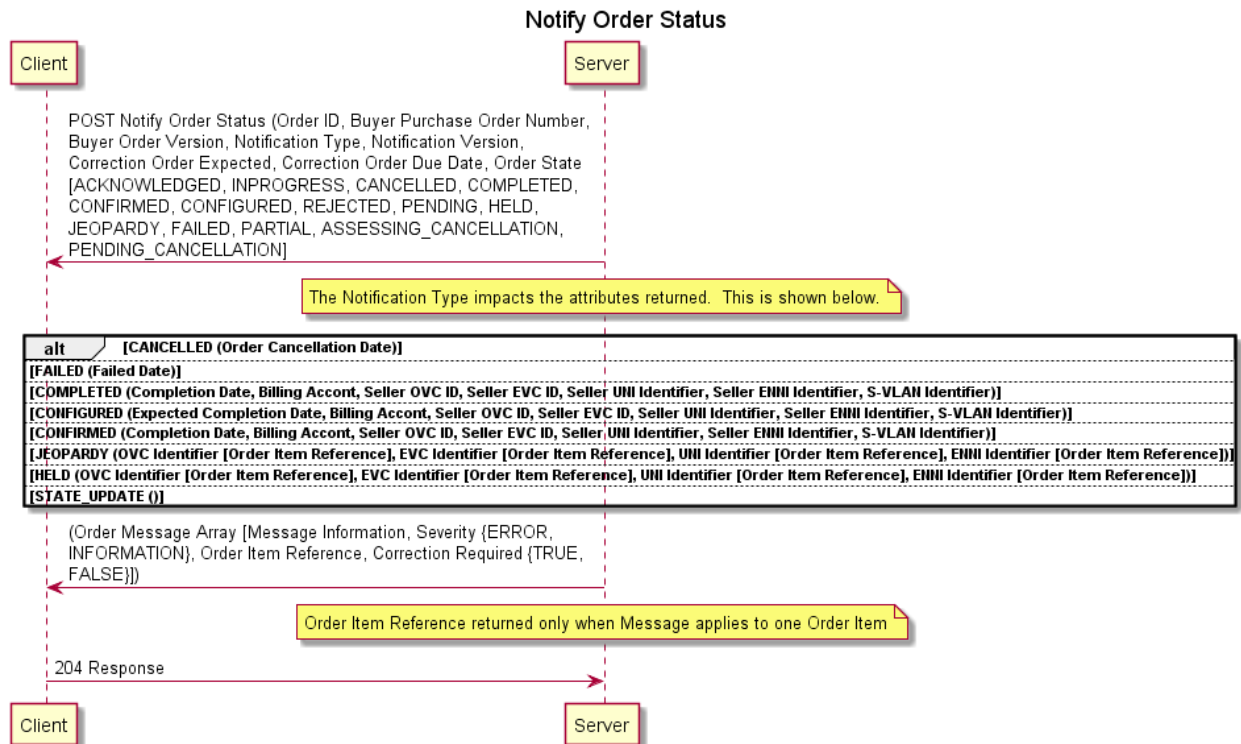
**Figure 43 – GET HubID Sequence Diagram**



**Figure 44 – Delete Registration for Notification Sequence Diagram**

### 20.2.2 Notify Order Status Sequence Diagram

The Notify Order Status sequence diagram is shown in this section.



**Figure 45 – Notify Order Status Sequence Diagram**

### 20.3 Notify Order Status and Complete Order Requirements MEF 57.1

MEF 57.1 [4] does not have any numbered requirements in the document. For this reason, the requirement to test case mapping tables are omitted from this section of the document.



## 20.4 Notify Order Status and Complete Order Test Cases MEF 57.1

The Notify Order Status and Complete Order Test Cases as specified in MEF 57.1 [4] are defined in this section.

### 20.4.1 Register for Order Notification MEF 57.1

The Register for Order Notification requirements and test cases are shown in this section. MEF 57.1 does not detail these Use Cases and therefore the test cases and attributes in this section have been derived from the API.

[R281]The Buyer and Seller **MUST** complete [Test Case 281] as shown in Table 303.

[Test Case 281] Register for Order Notifications, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Order notifications.		
Buyer Request	WHEN - the Buyer POSTs a hub-Create with a Query and Callback		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 303 – [Test Case 281]**

[R282]The Buyer and Seller **MUST** complete [Test Case 282] as shown in Table 304.

[Test Case 282] GET Hub ID, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has started notifications to at least one callback.  The Seller supports Order notifications.		

[Test Case 282] GET Hub ID, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Request	WHEN - the Buyer POSTs a hubId		
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success and an array containing (hubId, Query, Callback).		

**Table 304 – [Test Case 282]**

The GET hubId function returns the hubId that is then used to delete the registration for notifications.

[R283]The Buyer and Seller **MUST** complete [Test Case 283] as shown in Table 305.

[Test Case 283] Delete Registration for Notifications, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded, has created a Hub for Notifications, and the Buyer has the hubId.  The Seller supports Product Order notifications.		
Buyer Request	WHEN - the Buyer POSTs a hubDelete (hubId)		
Seller Response	THEN - the Buyer receives a 204 response from the Seller indicating success.		

**Table 305 – [Test Case 283]**

#### 20.4.2 Send Order Notification MEF 57.1

The requirements and test cases for Send Order Notification as specified in MEF 57.1 are defined in this section.

[R284]The Buyer and Seller **MUST** complete [Test Case 284] as shown in Table 306.

[Test Case 284] Seller Generate Notification, Notification Type = CANCELLED			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to CANCELLED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Order State changes CANCELLED, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = CANCELLED, Notification Version Number, Correction Order Expected = FALSE, Requested Completion Date, Order Cancellation Date, Cancellation Reason, Order State = CANCELLED, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.</p>		
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 306 – [Test Case 284]**

After completing [Test Case 284], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to CANCELLED. This is described in [Test Case 279].

[R285]The Buyer and Seller **MUST** complete [Test Case 285] as shown in Table 307.

[Test Case 285] Seller Generate Notification, Notification Type = FAILED			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to FAILED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Order State changes FAILED, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = FAILED, Notification Version Number, Correction Order Expected = FALSE, Requested Completion Date, Failed Date, Order State = FAILED, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.</p>		
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 307 – [Test Case 285]**

After completing [Test Case 285], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to FAILED. This is described in [Test Case 279].

[R286]The Buyer and Seller **MUST** complete [Test Case 286] as shown in Table 308.

[Test Case 286] Seller Generate Notification, Notification Type = COMPLETED			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to COMPLETED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Order State changes COMPLETED, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = COMPLETED, Notification Version Number, Correction Order Expected = FALSE, Requested Completion Date, Completion Date, Order State = COMPLETED, Billing Account, Seller OVC Identifier, Seller EVC Identifier, Seller UNI Identifier, Seller ENNI Identifier, S-VLAN Identifier, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.</p>		
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 308 – [Test Case 286]**



After completing [Test Case 286], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to COMPLETED. This is described in [Test Case 279].

[R287]The Buyer and Seller **MUST** complete [Test Case 287] as shown in Table 309.

[Test Case 287] Seller Generate Notification, Notification Type = CONFIRMED			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to CONFIRMED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Order State changes CONFIRMED, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = CONFIRMED, Notification Version Number, Correction Order Expected = FALSE, Requested Completion Date, Expected Completion Date, Order State = CONFIRMED, Billing Account, Seller OVC Identifier, Seller EVC Identifier, Seller UNI Identifier, Seller ENNI Identifier, S-VLAN Identifier, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.</p>		

[Test Case 287] Seller Generate Notification, Notification Type = CONFIRMED			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 309 – [Test Case 287]**

After completing [Test Case 287], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to CONFIRMED. This is described in [Test Case 279].

[R288]The Buyer and Seller **MUST** complete [Test Case 288] as shown in Table 310.

[Test Case 288] Seller Generate Notification, Notification Type = CONFIGURED			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to CONFIGURED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Order State changes CONFIGURED, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = CONFIGURED, Notification Version Number, Correction Order Expected = FALSE,		

[Test Case 288] Seller Generate Notification, Notification Type = CONFIGURED			
Entity	TC Step Description	Verified Requirements	Comments
	Requested Completion Date, Expected Completion Date, Order State = CONFIGURED, Billing Account, Seller OVC Identifier, Seller EVC Identifier, Seller UNI Identifier, Seller ENNI Identifier, S-VLAN Identifier, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.		
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 310 – [Test Case 288]**

After completing [Test Case 288], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to CONFIGURED. This is described in [Test Case 279].

[R289]The Buyer and Seller **MUST** complete [Test Case 289] as shown in Table 311.

[Test Case 289] Seller Generate Notification, Notification Type = JEOPARDY			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p>		





[Test Case 289] Seller Generate Notification, Notification Type = JEOPARDY			
Entity	TC Step Description	Verified Requirements	Comments
	The Seller is processing the Product Order and the state of the Product Order moves to JEOPARDY.  The Seller supports notifications.		
Seller Generates	WHEN – the Order State changes JEOPARDY, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = JEOPARDY, Notification Version Number, Correction Order Expected = TRUE, Correction Order Due Date, Requested Completion Date, Order State = JEOPARDY, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.		
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

Table 311 – [Test Case 289]

After completing [Test Case 289], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to JEOPARDY. This is described in [Test Case 279].

[R290]The Buyer and Seller **MUST** complete [Test Case 290] as shown in Table 312.

[Test Case 290] Seller Generate Notification, Notification Type = HELD			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for Notifications. The Buyer has		

[Test Case 290] Seller Generate Notification, Notification Type = HELD			
Entity	TC Step Description	Verified Requirements	Comments
	<p>POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to HELD.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Order State changes HELD, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = HELD, Notification Version Number, Correction Order Expected = TRUE, Correction Order Due Date, Requested Completion Date, Order State = HELD, Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.</p>		
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 312 – [Test Case 290]**

After completing [Test Case 290], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to HELD. This is described in [Test Case 279].

[R291]The Buyer and Seller **MUST** complete [Test Case 291] as shown in Table 313.

[Test Case 291] Seller Generate Notification, Notification Type = STATE_UPDATE			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for Notifications. The Buyer has POSTed a New Order request as described in [Test Case 257].</p> <p>The Buyer has received a 201 response from the Seller for the New Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order moves to STATE_UPDATE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Order State changes STATE_UPDATE, the Seller generates an Order Notification that includes the Order ID, Service Provider ID, Buyer Purchase Order Number, Buyer Order Version, Notification Type = STATE_UPDATE, Notification Version Number, Correction Order Expected = FALSE, Requested Completion Date, Order State = (Current State), Message Information, Severity (ERROR, INFORMATION), Correction Required = False, to the Callback as specified when the Buyer registered for notifications.</p>		
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 313 – [Test Case 291]**

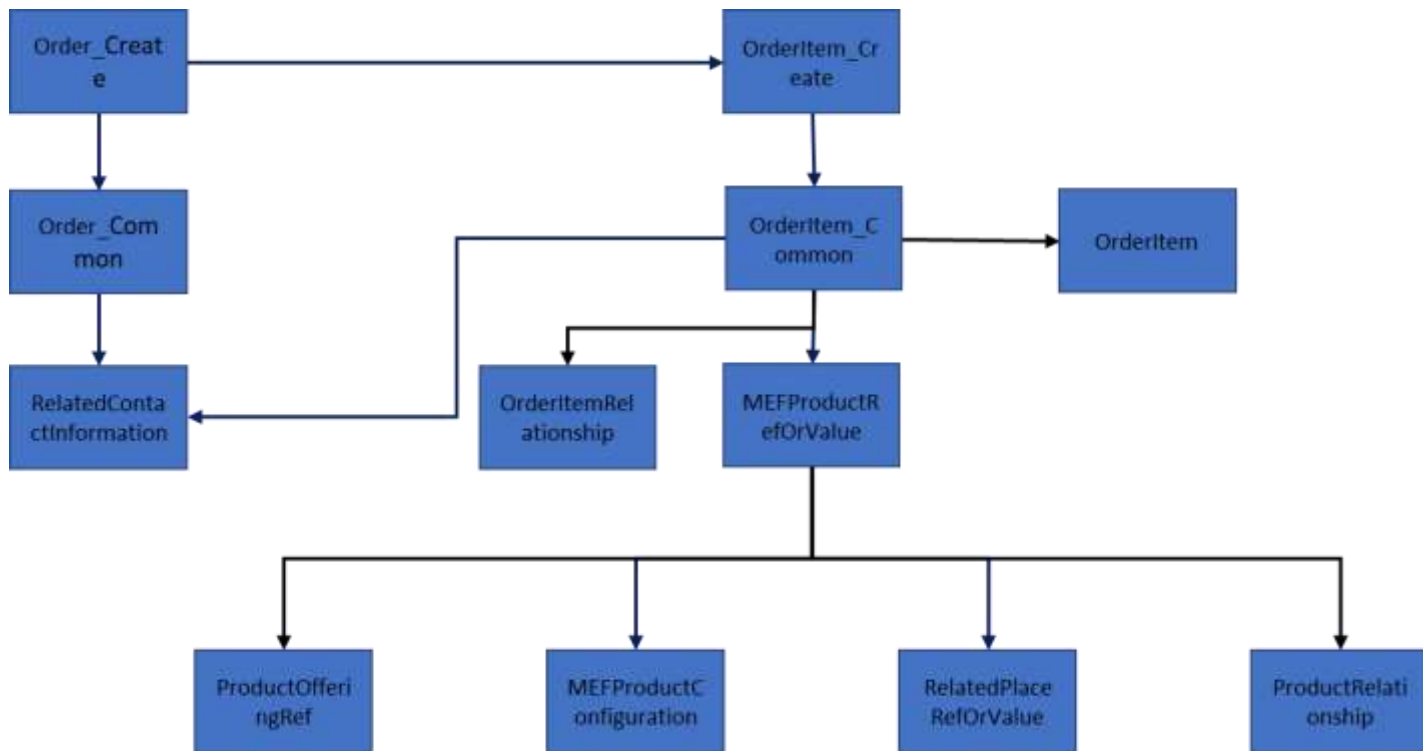
After completing [Test Case 291], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to Current State. This is described in [Test Case 279].

## 21 Create Product Order MEF 57.2

The Create Product Order requirements and test cases as specified in MEF 57.2 [5] are defined in this section.

### 21.1 Product Order API Overview MEF 57.2

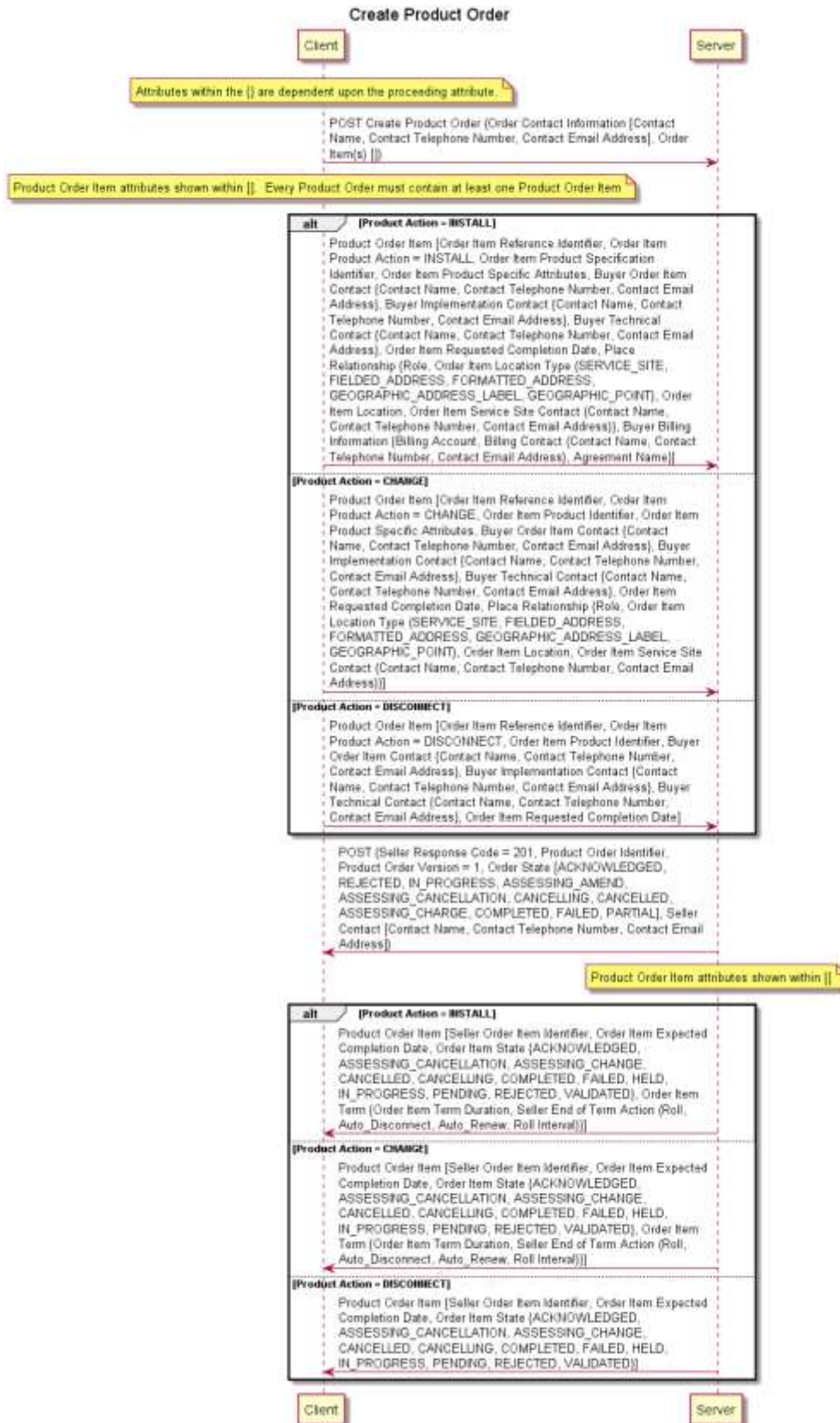
An overview of the Product Order API as specified in MEF 57.2 [5] is provided in this section.



**Figure 46 – Create Product Order API Overview**

### 21.2 Create Product Order Sequence Diagram MEF 57.2

The Product Order sequence diagram as specified in MEF 57.2 [5] is shown in this section.



**Figure 47 – Create Product Order Sequence Diagram**

## 21.3 Create Product Order Requirements MEF 57.2

The Create Product Order Requirements as specified in MEF 57.2 [5] are described in this section.

*Editor Note 12: The requirements in MEF 57.2 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF 57.2 this section will be updated along with tested requirements for each test case in the Product Order sections.*

Requirement	Entity	Tested	Test Case	Comment
R1	S	Y		
R2	B	Y		
O1	B	N		
R3	B	Y		
O2	B	N		
CR1<O2	B	N		
O3	B	N		
CR2<O3	B	N		
R4	S	Y		
R5	S	Y		
O4	S	N		
R6	S	Y		
R7	S	Y		
R8	S	Y		
R9	S	Y		
R10	S	Y		
R11	S	Y		
O5	S	N		
R12	S	Y		
R13	S	Y		
O6	S	N		
R14	B	Y		
O7	B	N		
R15	B	Y		
O8	B	N		
O9	B	N		
R16	B	Y		
R17	B	N		TSP requirement
R18	B	Y		
O10	B	N		
R19	B	Y		
R20	B	Y		
R21	B	Y		
R22	B	Y		
R23	B	Y		



Requirement	Entity	Tested	Test Case	Comment
R24	B	Y		
R25	S	Y		
R26	S	Y		
R27	S	Y		
R28	S	Y		
R29	S	Y		
R30	S	Y		
R31	S	Y		
R32	B	Y		
R33	B	Y		
R34	B	Y		
R35	B	Y		Coordinated Action Only
R36	S	Y		
R37	S	Y		
R38	S	Y		
R39	S	Y		
R40	S	Y		
O12	S	N		
R41	S	Y		
R42	S	Y		
R43	S	Y		
R44	B	Y		
R45	B	Y		
O13	B	N		
O14	B	N		
R46	S	Y		
R47	S	Y		
R48	S	Y		
R49	S	Y		
R50	B	Y		
O15	B	N		
R51	S	Y		
R52	S	Y		
R53	S	Y		
R54	S	Y		
O16	S	N		
R55	S	Y		
R56	S	Y		

Table 314 – Create Product Order Requirements

## 21.4 Create Product Order Test Cases MEF 57.2

The Create Product Order Test Cases as specified in MEF 57.2 [5] are defined in this section.

#### 21.4.1 Create Product Order Item Product Action = INSTALL

The test cases for a Buyer request to Create Product Order with Order Item Product Action = INSTALL are defined in this section.

[R292] The Buyer and Seller **MUST** complete [Test Case 292] as shown in Table 315.

[Test Case 292] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = FIELDDED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been onboarded and has identified a Product Offering they wish to order at a specified Location.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Location.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = INSTALL, Order Item Product Offering Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = FIELDDED_ADDRESS, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact</p>		



[Test Case 292] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = FIELDDED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
	email Address], Buyer Billing Information [Billing Account, Billing Contact {Contact Name, Contact Telephone Number, Contact email Address}, Agreement Name]		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

**Table 315 – [Test Case 292]**

[R293]The Buyer and Seller **MUST** complete [Test Case 293] as shown in Table 316.

[Test Case 293] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = FORMATTED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified a Product Offering they wish to order at a specified Location.  The Seller supports Product Orders, supports the identified Product Offering at the specified Location.		
Buyer Request	WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone		



[Test Case 293] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = FORMATTED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
	Number, Contact Email), Order Item Reference Identifier, Product Order Action = INSTALL, Order Item Product Offering Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = FORMATTED_ADDRESS, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Billing Information [Billing Account, Billing Contact {Contact Name, Contact Telephone Number, Contact email Address}, Agreement Name]		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer		

[Test Case 293] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = FORMATTED_ADDRESS, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

**Table 316 – [Test Case 293]**

[R294]The Buyer and Seller **MUST** complete [Test Case 294] as shown in Table 317.

[Test Case 294] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = GEOGRAPHIC_ADDRESS_LABEL, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN – the Buyer has been onboarded and has identified a Product Offering they wish to order at a specified Location.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Location.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = INSTALL, Order Item Product Offering Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = GEOGRAPHIC_ADDRESS_LABEL, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contac</p>		

[Test Case 294] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = GEOGRAPHIC_ADDRESS_LABEL, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	[Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Billing Information [Billing Account, Billing Contact {Contact Name, Contact Telephone Number, Contact email Address}, Agreement Name]		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

**Table 317 – [Test Case 294]**

[R295]The Buyer and Seller **MUST** complete [Test Case 295] as shown in Table 318.



[Test Case 295] Create Product Order, Order Item Product Action = INSTALL, Place Relationship = GEOGRAPHIC_POINT, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been on-boarded and has identified a Product Offering they wish to order at a specified Location.</p> <p>The Seller supports Product Orders, supports the identified Product Offering at the specified Location.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = INSTALL, Order Item Product Offering Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = GEOGRAPHIC_POINT, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Billing Information [Billing Account, Billing Contact {Contact Name, Contact Telephone Number, Contact email Address}, Agreement Name]</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating</p>		

[Test Case 295] Create Product Order, Order Item Product Action = IN-STALL, Place Relationship = GEOGRAPHIC_POINT, Positive case			
	TC Step Description	Verified Requirements	Comments
	success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

**Table 318 – [Test Case 295]**

#### 21.4.2 Create Product Order Order Item Product Action = CHANGE

The test cases for Create Product Order request with an Order Item Product Action = CHANGE are defined in this section.

[R296]The Buyer and Seller **MUST** complete [Test Case 296] as shown in Table 319.

[Test Case 296] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = FIELDED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified a Product they wish to change at a specified Location.  The Seller supports Product Orders, the identified Product is in the Seller Inventory.		
Buyer Request	WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = CHANGE, Order		



[Test Case 296] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = FIELDED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
	Item Product Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = FIELDED_ADDRESS, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address]		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

Table 319 – [Test Case 296]

[R297]The Buyer and Seller **MUST** complete [Test Case 297] as shown in Table 320.



[Test Case 297] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = FORMATTED_ADDRESS, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been on-boarded and has identified a Product they wish to change at a specified Location.</p> <p>The Seller supports Product Orders, the identified Product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = CHANGE, Order Item Product Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = FORMATTED_ADDRESS, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address]</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State =</p>		





[Test Case 297] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = FORMATTED_ADDRESS, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

Table 320 – [Test Case 297]

[R298]The Buyer and Seller **MUST** complete [Test Case 298] as shown in Table 321.

[Test Case 298] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = GEOGRAPHIC_ADDRESS_LABEL, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	GIVEN – the Buyer has been onboarded and has identified a Product they wish to change at a specified Location.  The Seller supports Product Orders, the identified Product is in the Seller Inventory.		
Buyer Request	WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = CHANGE, Order Item Product Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = GEOGRAPHIC_ADDRESS_LABEL, Order Item Loca-		

[Test Case 298] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = GEOGRAPHIC_ADDRESS_LABEL, Positive case			
	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
	tion, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contac [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address]		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

**Table 321 – [Test Case 298]**

[R299]The Buyer and Seller **MUST** complete [Test Case 299] as shown in Table 322.



[Test Case 299] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = GEOGRAPHIC_POINT, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been on-boarded and has identified a Product they wish to change at a specified Location.</p> <p>The Seller supports Product Orders, the identified Product is in the Seller Inventory.</p>		
Buyer Request	<p>WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = CHANGE, Order Item Product Identifier, Order Item Product Specific Attributes, Place Relationship (Role, Order Item Location Type = GEOGRAPHIC_POINT, Order Item Location, Order Item Service Site Contact [Contact Name, Contact Telephone Number, Contact Email Address]), Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address]</p>		
Seller Response	<p>THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State =</p>		

[Test Case 299] Create Product Order, Order Item Product Action = CHANGE, Place Relationship = GEOGRAPHIC_POINT, Positive case			
	TC Step Description	Verified Requirements	Comments
	ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes, Order Item Term Duration (Duration Unit, Duration Value).		

**Table 322 – [Test Case 299]**

### 21.4.3 Create Product Order Order Item Product Action = DISCONNECT

The test cases for Create Product Order request with an Order Item Product Action = DISCONNECT are defined in this section.

[R300] The Buyer and Seller **MUST** complete [Test Case 300] as shown in Table 323.

[Test Case 300] Create Product Order, Order Item Product Action = DISCONNECT, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified a Product they wish to disconnect.  The Seller supports Product Orders, the identified Product is in the Seller Inventory.		
Buyer Request	WHEN – The Buyer POSTs a Create Product Order request that contains Order Contact Information (Contact Name, Contact Telephone Number, Contact Email), Order Item Reference Identifier, Product Order Action = DISCONNECT, Order Item Product Identifier, Order Item Requested Completion Date, Order Item Expedite Indicator = FALSE, Buyer Order Item Contac		



[Test Case 300] Create Product Order, Order Item Product Action = DIS-CONNECT, Positive case			
	TC Step Description	Verified Requirements	Comments
	[Contact Name, Contact Telephone Number, Contact email Address], Buyer Implementation Contact [Contact Name, Contact Telephone Number, Contact email Address], Buyer Technical Contact [Contact Name, Contact Telephone Number, Contact email Address]		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success and that includes Product Order Identifier, Product Order Version = 1, Order State = ACKNOWLEDGED, Seller Contact (Contact Name, Contact Telephone Number, Contact Email Address), Echo Buyer Supplied Order Attributes, Order Item State = ACKNOWLEDGED, Echo Buyer Supplied Order Item Attributes.		

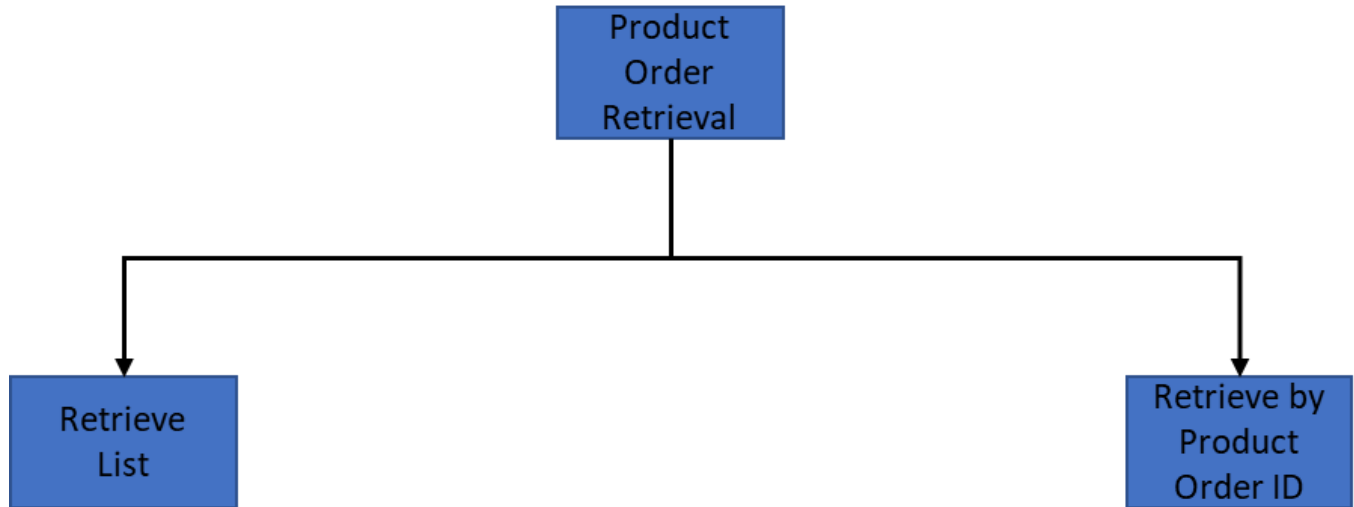
Table 323 – [Test Case 300]

## 22 Product Order Retrieval MEF 57.2

The Product Order Retrieval requirements and test cases as specified in MEF 57.2 [5] are defined in this section.

### 22.1 GET Product Order API Overview MEF 57.2

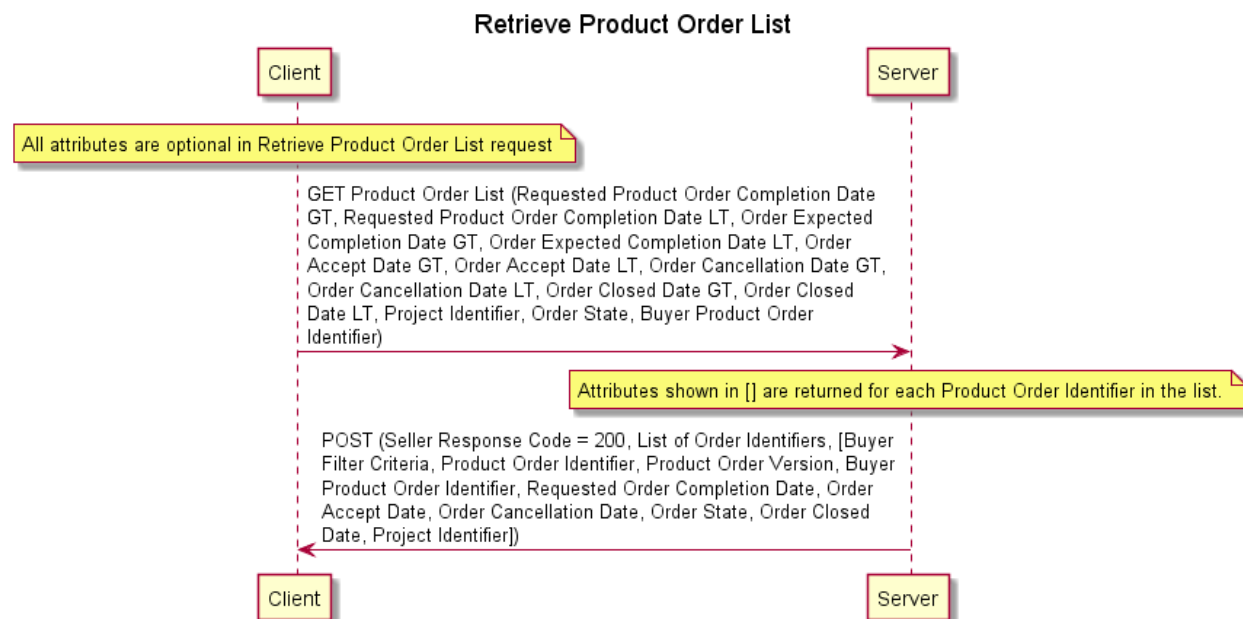
An overview of the GET Product Order as specified in MEF 57.2 [5] is provided in Figure 48.



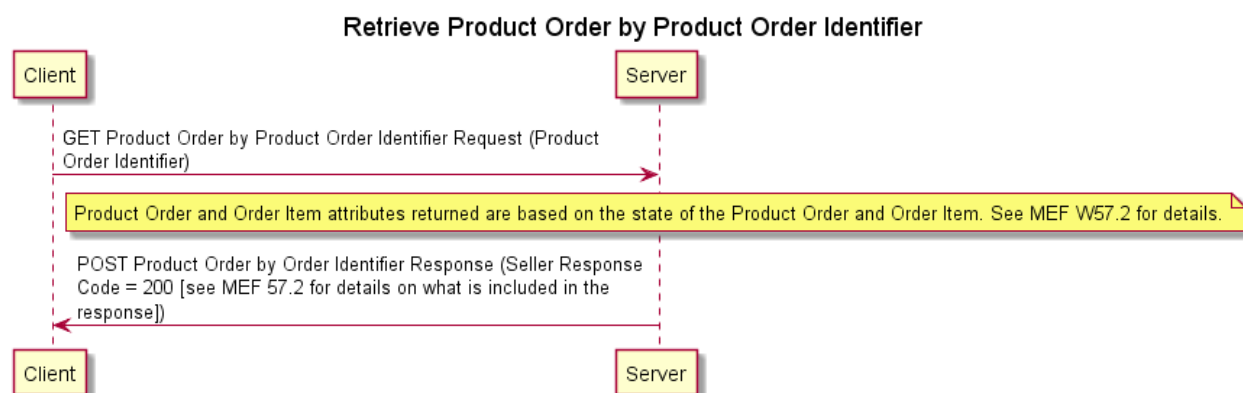
**Figure 48 – GET Product Order API Overview**

### 22.2 GET Product Order Sequence Diagrams MEF 57.2

The sequence diagrams for GET Product Order List and GET Product Order by Product Order Identifier as specified in MEF 57.2 [5] are shown below.



**Figure 49 – GET Product Order List Sequence Diagram**



**Figure 50 – GET Product Order by Order Identifier Sequence Diagram**

## 22.3 MEF W57.2 Retrieve Product Order Requirements

The requirements from MEF W57.2 that address Product Order retrieval are shown in the following sections.

*Editor Note 13: The requirements in MEF 57.2 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF 57.2 this section will be updated along with tested requirements for each test case in the Product Order sections.*

### 22.3.1 Retrieve Product Order List Requirements

The requirements from MEF W57.2 that address Retrieve Product Order List are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
O52	B	Y		
R156	S	Y		
R157	S	Y		

**Table 324 – Retrieve Product Order List Requirements**

### 22.3.2 Retrieve Product Order by Product Order Identifier Requirements

The requirements from MEF W57.2 that address Retrieve Product Order by Product Order Identifier are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
R158	B	Y		
R159	S	Y		

**Table 325 – Retrieve Product Order by Product Order Identifier Requirements**

## 22.4 Retrieve Product Order Test Cases MEF 57.2

The Test Cases for Retrieve Product Order List and Retrieve Product Order by Product Order Identifier as specified in MEF 57.2 [5] are defined in this section.

### 22.4.1 Retrieve Product Order List Test Cases

The Test Cases for Retrieve Product Order List are defined in this section.

[R301] The Buyer and Seller **MUST** complete [Test Case 301] as shown in Table 326.

[Test Case 301] Retrieve Product Order List, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer desires to retrieve a list of Product Orders and they determine which if any filter criteria they want to use.		





[Test Case 301] Retrieve Product Order List, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	There is at least one Product Order in the Seller's system that is assigned to the Buyer and matches any filter criteria used by the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Order List that may contain one or more of the filter criteria, Buyer Product Order Identifier, Requested Order Completion Date GT, Requested Order Completion Date LT, Order Expected Completion Date GT, Order Expected Completion Date LT, Order Accept Date GT, Order Accept Date LT, Order Cancellation Date GT, Order Cancellation Date LT, Order Closed Date GT, Order Closed Date LT, Project Identifier, Order State (ACKNOWLEDGED, ASSESSING_AMEND, ASSESSING_CANCELLATION, ASSESSING_CHARGE, CANCELLED, CANCELLING, COMPLETE, FAILED, IN_PROGRESS, PARTIAL, REJECTED)	MEF 57.2 [3] O52	



[Test Case 301] Retrieve Product Order List, Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	<p>THEN - the Buyer receives a 200 response from the Seller indicating success. The Seller response includes indications that the response was throttled due to too many records, the result count = (number of results returned), the total count of records found = (number of matching records found).</p> <p>For each record returned the response includes Product Order Identifier, Product Order Version, Buyer Product Order Identifier, Requested Order Completion Date, Order Accept Date, Order Cancellation Date, Order State (ACKNOWLEDGED, ASSESSING_AMEND, ASSESSING_CANCELLATION, ASSESSING_CHARGE, CANCELLED, CANCELLING, COMPLETE, FAILED, IN_PROGRESS, PARTIAL, REJECTED), Order Closed Date, Project Identifier</p>	MEF 57.2 [3] R156, R157	

Table 326 – [Test Case 301]

[R302]The Buyer and Seller **MUST** complete [Test Case 302] as shown in Table 327.

[Test Case 302] Retrieve Product Order List, No Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN - the Buyer desires to retrieve a list of Product Orders and they determine which if any filter criteria they want to use.</p> <p>There are zero Product Orders in the Seller's system that are assigned to</p>		

[Test Case 302] Retrieve Product Order List, No Matching Product Order Found, Positive Case			
Entity	TC Step Description	Verified Requirements	Comments
	the Buyer and match any filter criteria used by the Buyer.		
Buyer Request	WHEN - The Buyer submits a GET Product Order List that may contain one or more of the filter criteria, Buyer Product Order Identifier, Requested Order Completion Date GT, Requested Order Completion Date LT, Order Expected Completion Date GT, Order Expected Completion Date LT, Order Accept Date GT, Order Accept Date LT, Order Cancellation Date GT, Order Cancellation Date LT, Order Closed Date GT, Order Closed Date LT, Project Identifier, Order State (ACKNOWLEDGED, AS-SESSING_AMEND, AS-SESSING_CANCELLATION, AS-SESSING_CHARGE, CANCELLED, CANCELLING, COMPLETE, FAILED, IN_PROGRESS, PARTIAL, REJECTED)	MEF 57.2 [3] O52	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success with an empty list. The Seller response includes indications that the result count = 0 and the total count of records found = 0.	MEF 57.2 [3] R156, R157	

Table 327 – [Test Case 302]

[R303]The Buyer and Seller **MUST** complete [Test Case 303] as shown in Table 328.

[Test Case 303] Retrieve Product Order List, Missing Attribute, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN - the Buyer desires to retrieve a list of Product Orders and		

[Test Case 303] Retrieve Product Order List, Missing Attribute, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>they determine which if any filter criteria they want to use.</p> <p>There is at least one Product Order in the Seller's system that is assigned to the Buyer and matches any filter criteria used by the Buyer. The Buyer uses the Requested Order Completion Date criteria and omits the less than date.</p>		
Buyer Request	WHEN - The Buyer submits a GET Product Order List that includes the Requested Product Completion Date (greater than) and omits the less than date.	MEF 57.2 [3] O52	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response with error indicator from the Seller. The Seller response does not include any additional information.	MEF 57.2 [3] R156, R157	

**Table 328 – [Test Case 303]**

#### 22.4.2 Retrieve Product Order by Product Order Identifier Test Case

The test cases for Retrieve Product Order by Product Order Identifier are detailed below.

[R304]The Buyer and Seller **MUST** complete [Test Case 304] as shown in Table 329.

<b>[Test Case 304] Retrieve Product Order by Product Order Identifier, Matching Product Order Found, Positive Case</b>			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN - the Buyer desires to retrieve the details on a specified Product Order.</p> <p>There is a Product with a matching Product Order Identifier in the Seller's system,</p>		
Buyer Request	WHEN – the Buyer submits a GET retrieveProductOrder that includes the Product Order Identifier.	MEF 57.2 [3] R158	
Seller Response	THEN - the Buyer receives a 200 response from the Seller indicating success. The Seller response includes all details on the Product Order as described in section 21.4 and Tables 44 and 45 in MEF 57.2 [3].	MEF 57.2 [3] R159	

**Table 329 – [Test Case 304]**

[R305]The Buyer and Seller **MUST** complete [Test Case 305] as shown in Table 330.

<b>[Test Case 305] Retrieve Product Order by Product Order Identifier, No Matching Product Order Found, Negative Case</b>			
<b>Entity</b>	<b>TC Step Description</b>	<b>Verified Requirements</b>	<b>Comments</b>
Preconditions	<p>GIVEN - the Buyer desires to retrieve the details on a specified Product Order.</p> <p>There is not a Product Order with a matching Product Order Identifier in the Seller's system,</p>		
Buyer Request	WHEN – the Buyer submits a GET retrieveProductOrder that includes the Product Order Identifier.	MEF 57.2 [3] R158	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by

[Test Case 305] Retrieve Product Order by Product Order Identifier, No Matching Product Order Found, Negative Case			
Entity	TC Step Description	Verified Requirements	Comments
			their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 404 response from the Seller indicating that the Product Order Identifier was not found.	MEF 57.2 [3] R159	

Table 330 – [Test Case 305]

## 23 Product Order Notification MEF 57.2

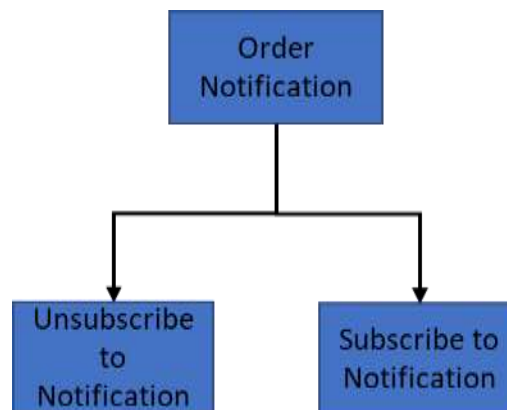
The requirements and test cases for Product Order Notification as specified in MEF 57.2 [5] are defined in this section.

### 23.1 Product Order Notification API Overview MEF 57.2

An overview of the Product Order Notification API as specified in MEF 57.2 [5] is described in this section. There are two APIs used for Product Order Notifications, the Product Order Management API and the Product Order Notification API.

#### 23.1.1 Register for Product Order Notifications

Register for Notifications is contained within the Product Order Management API.



**Figure 51 – Register for Product Order Notification API Overview**

#### 23.1.2 Send Product Order Notification

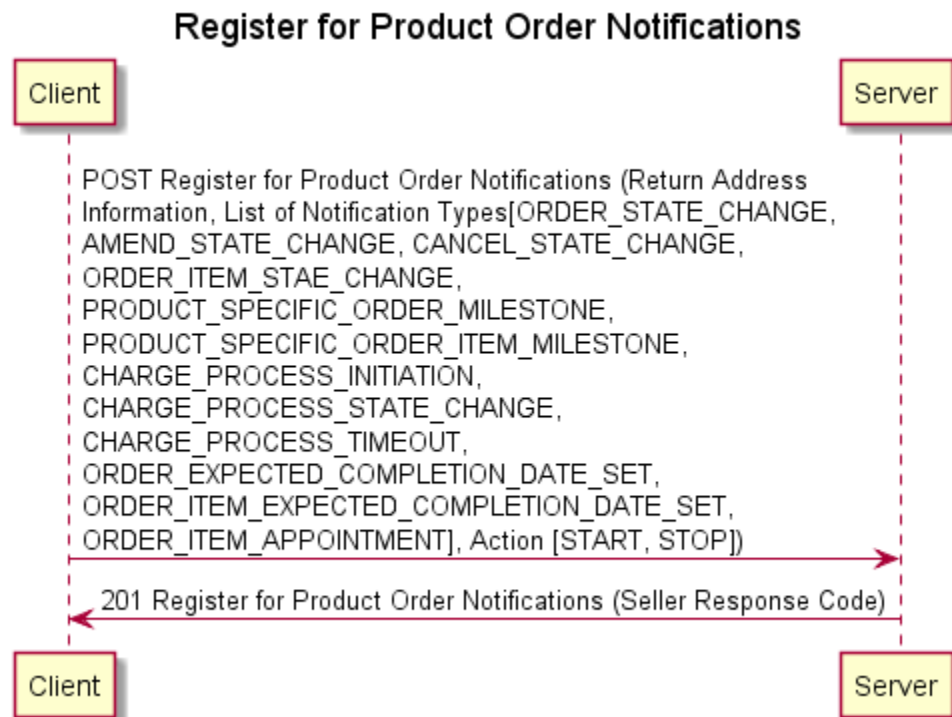
Send Product Order Notification is contained in the Product Order Notification API.



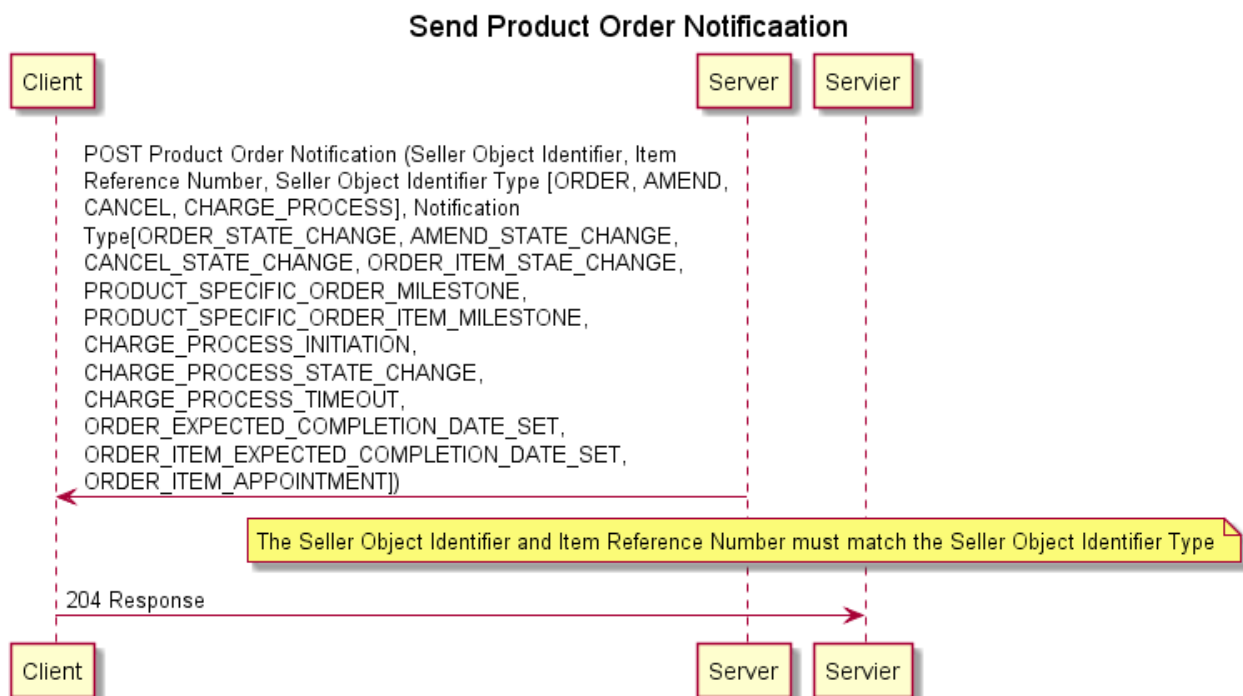
**Figure 52 – Send Product Order Notification API Overview**

## 23.2 Product Order Notification Sequence Diagrams MEF 57.2

The sequence diagrams for register for Product Order Notification and send Product Order Notification as specified in MEF 57.2 [5] are shown in this section.



**Figure 53 – Register for Product Order Notification Sequence Diagram**



**Figure 54 – Seller Send Notification Sequence Diagram**



### 23.3 Product Order Requirements

The requirements from MEF W57.2 that address Register for Product Order Notifications and Product Order Notification are shown in this section.

*Editor Note 14: The requirements in MEF 57.2 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF 57.2 this section will be updated along with tested requirements for each test case in the Product Order sections.*

#### 23.3.1 Register for Product Order Notifications Requirements

The requirements from MEF W57.2 that address Register for Product Order Notifications are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
O58	B	Y	[Test Case 306], [Test Case 307], [Test Case 308], [Test Case 309], [Test Case 310], [Test Case 311], [Test Case 312], [Test Case 313], [Test Case 314], [Test Case 315], [Test Case 316], [Test Case 317], [Test Case 318], [Test Case 319], [Test Case 320], [Test Case 321], [Test Case 322], [Test Case 323], [Test Case 324], [Test Case 325], [Test Case 326], [Test Case 327], [Test Case 328], [Test Case 329], [Test Case 330]	
CR7<O58	B	Y	[Test Case 306], [Test Case 307], [Test Case 308], [Test Case 309], [Test Case 310],	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 311], [Test Case 312], [Test Case 313], [Test Case 314], [Test Case 315], [Test Case 316], [Test Case 317], [Test Case 318], [Test Case 319], [Test Case 320], [Test Case 321], [Test Case 322], [Test Case 323], [Test Case 324], [Test Case 325], [Test Case 326], [Test Case 327], [Test Case 328], [Test Case 329], [Test Case 330]	
CR8<O58	B	Y	[Test Case 306], [Test Case 307], [Test Case 308], [Test Case 309], [Test Case 310], [Test Case 311], [Test Case 312], [Test Case 313], [Test Case 314], [Test Case 315], [Test Case 316], [Test Case 317], [Test Case 318], [Test Case 319], [Test Case 320], [Test Case 321], [Test Case 322], [Test Case 323], [Test Case 324], [Test Case 325], [Test Case 326], [Test Case 327], [Test Case 328], [Test Case 329], [Test Case 330]	

**Table 331 – Register for Product Order Notifications Requirements**
**23.3.2 Send Product Order Notification**

The requirements from MEF W57.2 that address Product Order Notification are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
R189	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335], [Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342], [Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349], [Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356], [Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363], [Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367],	

<b>Requirement</b>	<b>Entity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 368], [Test Case 369]	
R190	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335], [Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342], [Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349], [Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356], [Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363], [Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367], [Test Case 368], [Test Case 369]	
R191	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335],	

Requirement	Entity	Tested	Test Case	Comment
			[Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342], [Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349], [Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356], [Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363], [Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367], [Test Case 368], [Test Case 369]	
R192	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335], [Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342],	

Requirement	Entity	Tested	Test Case	Comment
			[Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349], [Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356], [Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363], [Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367], [Test Case 368], [Test Case 369]	
R193	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335], [Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342], [Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349],	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356], [Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363], [Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367], [Test Case 368], [Test Case 369]	
R194	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335], [Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342], [Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349], [Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356]	

<b>Requirement</b>	<b>Entity</b>	<b>Tested</b>	<b>Test Case</b>	<b>Comment</b>
			[Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363], [Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367], [Test Case 368], [Test Case 369]	
R195	S	Y	[Test Case 331], [Test Case 332], [Test Case 333], [Test Case 334], [Test Case 335], [Test Case 336], [Test Case 337], [Test Case 338], [Test Case 339], [Test Case 340], [Test Case 341], [Test Case 342], [Test Case 343], [Test Case 344], [Test Case 345], [Test Case 346], [Test Case 347], [Test Case 348], [Test Case 349], [Test Case 350], [Test Case 351], [Test Case 352], [Test Case 353], [Test Case 354], [Test Case 355], [Test Case 356], [Test Case 357], [Test Case 358], [Test Case 359], [Test Case 360], [Test Case 361], [Test Case 362], [Test Case 363],	



Requirement	Entity	Tested	Test Case	Comment
			[Test Case 364], [Test Case 365], [Test Case 366], [Test Case 367], [Test Case 368], [Test Case 369]	

**Table 332 – Send Product Order Notification Requirements**

## 23.4 Product Order Notification Test Cases MEF 57.2

The test cases for Product Order Notification as specified in MEF 57.2 [5] are defined in this section.

### 23.4.1 Register for Product Order Notifications Test Case

The test cases for Register for Product Order Notification test cases are shown in this section.

[R306] The Buyer and Seller **MUST** complete [Test Case 306] as shown in Table 333.

[Test Case 306] Register for Product Order Notifications, Notification Type = ORDER_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Product Order State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Product Order Notification Request that contains the Notification Target Information, the Notification Type = ORDER_STATE_CHANGE, and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 333 – [Test Case 306]**

[R307]The Buyer and Seller **MUST** complete [Test Case 307] as shown in Table 334.

[Test Case 307] Register for Product Order Notifications, Notification Type = ORDER_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Product Order State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = ORDER_STATE_CHANGE, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

Table 334 – [Test Case 307]

[R308]The Buyer and Seller **MUST** complete [Test Case 308] as shown in Table 335.

[Test Case 308] Register for Product Order Notifications, Notification Type = AMEND_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Amend State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Product Order Notification Request that contains the Notification Target Information, the Notification Type = AMEND_STATE_CHANGE, and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	

[Test Case 308] Register for Product Order Notifications, Notification Type = AMEND_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 335 – [Test Case 308]**

[R309]The Buyer and Seller **MUST** complete [Test Case 309] as shown in Table 336.

[Test Case 309] Register for Product Order Notifications, Notification Type = AMEND_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Amend State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = AMEND_STATE_CHANGE, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 336 – [Test Case 309]**

[R310]The Buyer and Seller **MUST** complete [Test Case 310] as shown in Table 337.

[Test Case 310] Register for Product Order Notifications, Notification Type = CANCEL_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Cancel State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Product Order Notification Request that contains the Notification Target Information, the Notification Type = CANCEL_STATE_CHANGE, and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 337 – [Test Case 310]**

[R311]The Buyer and Seller **MUST** complete [Test Case 311] as shown in Table 338.

[Test Case 311] Register for Product Order Notifications, Notification Type = CANCEL_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Cancel State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = CANCEL_STATE_CHANGE, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	

[Test Case 311] Register for Product Order Notifications, Notification Type = CANCEL_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 338 – [Test Case 311]**

[R312]The Buyer and Seller **MUST** complete [Test Case 312] as shown in Table 339.

[Test Case 312] Register for Product Order Notifications, Notification Type = ORDER_ITEM_STATE_CHANGE, Request Action = START, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Order Item State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = ORDER_ITEM_STATE_CHANGE, and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 339 – [Test Case 312]**

[R313]The Buyer and Seller **MUST** complete [Test Case 313] as shown in Table 340.



[Test Case 313] Register for Product Order Notifications, Notification Type = ORDER_ITEM_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Order Item State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = ORDER_ITEM_STATE_CHANGE, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

Table 340 – [Test Case 313]

[R314]The Buyer and Seller **MUST** complete [Test Case 314] as shown in Table 341.

[Test Case 314] Register for Product Order Notifications, Notification Type = PRODUCT_SPECIFIC_ORDER_MILESTONE, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Product Specific Order Milestone notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Noti-	MEF 57.2 [3] O58, CR7<O58, CR8<O58	

[Test Case 314] Register for Product Order Notifications, Notification Type = PRODUCT_SPECIFIC_ORDER_MILESTONE, Positive case			
	TC Step Description	Verified Requirements	Comments
	fication Type = PRODUCT_SPECIFIC_ORDER_MILESTONE, and Action = START.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 341 – [Test Case 314]**

[R315]The Buyer and Seller **MUST** complete [Test Case 315] as shown in Table 342.

[Test Case 315] Register for Product Order Notifications, Notification Type = PRODUCT_SPECIFIC_ORDER_MILESTONE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Product Specific Order Milestone notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = PRODUCT_SPECIFIC_ORDER_MILESTONE, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 342 – [Test Case 315]**

[R316]The Buyer and Seller **MUST** complete [Test Case 316] as shown in Table 343.

[Test Case 316] Register for Product Order Notifications, Notification Type = PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Product Specific Order Item Milestone notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

Table 343 – [Test Case 316]

[R317]The Buyer and Seller **MUST** complete [Test Case 317] as shown in Table 344.

[Test Case 317] Register for Product Order Notifications, Notification Type = PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Product Specific Order Item Milestone notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries	MEF 57.2 [3] O58, CR7<O58, CR8<O58	



[Test Case 317] Register for Product Order Notifications, Notification Type = PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	where the first entry has the Notification Target Information, the Notification Type = PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE, and Action = STOP.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 344 – [Test Case 317]**

[R318]The Buyer and Seller **MUST** complete [Test Case 318] as shown in Table 345.

[Test Case 318] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_INITIATION, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Charge Process Initiation notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = CHARGE_PROCESS_INITIATION and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	

[Test Case 318] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_INITIATION, Positive case			
	TC Step Description	Verified Requirements	Comments
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 345 – [Test Case 318]**

[R319]The Buyer and Seller **MUST** complete [Test Case 319] as shown in Table 346.

[Test Case 319] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_INITIATION, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Charge Process Initiation notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = CHARGE_PROCESS_INITIATION, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 346 – [Test Case 319]**

[R320]The Buyer and Seller **MUST** complete [Test Case 320] as shown in Table 347.

[Test Case 320] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_STATE_CHANGE, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Charge Process State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = CHARGE_PROCESS_STATE_CHANGE and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

Table 347 – [Test Case 320]

[R321]The Buyer and Seller **MUST** complete [Test Case 321] as shown in Table 348.

[Test Case 321] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Charge Process State Change notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notifi-	MEF 57.2 [3] O58, CR7<O58, CR8<O58	

[Test Case 321] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_STATE_CHANGE, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	cation Target Information, the Notification Type = CHARGE_PROCESS_STATE_CHANGE, and Action = STOP.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

Table 348 – [Test Case 321]

[R322]The Buyer and Seller **MUST** complete [Test Case 322] as shown in Table 349.

[Test Case 322] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_TIMEOUT, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Charge Process Timeout notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = CHARGE_PROCESS_TIMEOUT and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

Table 349 – [Test Case 322]

[R323]The Buyer and Seller **MUST** complete [Test Case 323] as shown in Table 350.

[Test Case 323] Register for Product Order Notifications, Notification Type = CHARGE_PROCESS_TIMEOUT, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Charge Process Timeout notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = CHARGE_PROCESS_TIMEOUT, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 350 – [Test Case 323]**

[R324]The Buyer and Seller **MUST** complete [Test Case 324] as shown in Table 351.

[Test Case 324] Register for Product Order Notifications, Notification Type = ORDER_EXPECTED_COMPLETION_DATE_SET, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Order Expected Completion Date Set notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notifi-	MEF 57.2 [3] O58, CR7<O58, CR8<O58	

[Test Case 324] Register for Product Order Notifications, Notification Type = ORDER_EXPECTED_COMPLETION_DATE_SET, Positive case			
	TC Step Description	Verified Requirements	Comments
	cation Target Information, the Notification Type = ORDER_EXPECTED_COMPLETION_DATE_SET and Action = START.		
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 351 – [Test Case 324]**

[R325]The Buyer and Seller **MUST** complete [Test Case 325] as shown in Table 352.

[Test Case 325] Register for Product Order Notifications, Notification Type = ORDER_EXPECTED_COMPLETION_DATE_SET, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Order Expected Completion Date Set notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = ORDER_EXPECTED_COMPLETION_DATE_SET, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 352 – [Test Case 325]**

[R326]The Buyer and Seller **MUST** complete [Test Case 326] as shown in Table 353.

[Test Case 326] Register for Product Order Notifications, Notification Type = ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.  The Seller supports Order Item Expected Completion Date Set notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET and Action = START.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 353 – [Test Case 326]**

[R327]The Buyer and Seller **MUST** complete [Test Case 327] as shown in Table 354.

[Test Case 327] Register for Product Order Notifications, Notification Type = ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Notification Target Information.		

[Test Case 327] Register for Product Order Notifications, Notification Type = ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	The Seller supports Order Item Expected Completion Date Set notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Notification Type = ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Response	THEN - the Buyer receives a 201 response from the Seller indicating success.		

**Table 354 – [Test Case 327]**

[R328]The Buyer and Seller **MUST** complete [Test Case 328] as shown in Table 355.

[Test Case 328] Register for Product Order Notifications, Notification Type = ORDER_ITEM_APPOINTMENT, Positive case			
	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded and has identified the Notification Target Information.  The Seller supports Order Item Appointment notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains a list with two entries where the first entry has the Notification Target Information, the Noti-	MEF 57.2 [3] O58, CR7<O58, CR8<O58	



[Test Case 328] Register for Product Order Notifications, Notification Type = ORDER_ITEM_APPOINTMENT, Positive case			
	TC Step Description	Verified Requirements	Comments
	fication Type = OR- DER_ITEM_APPOINTMENT and Action = START.		
Seller Re- sponse	THEN - the Buyer receives a 201 re- sponse from the Seller indicating success.		

**Table 355 – [Test Case 328]**

[R329]The Buyer and Seller **MUST** complete [Test Case 329] as shown in Table 356.

[Test Case 329] Register for Product Order Notifications, Notification Type = ORDER_ITEM_APPOINTMENT, Request Action = STOP, Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Precondi- tions	GIVEN – the Buyer has been on- boarded and has identified the Noti- fication Target Information.  The Seller supports Order Item Ap- pointment notifications.		
Buyer Re- quest	WHEN - the Buyer POSTs a Regis- ter for Quote Notification Request that contains a list with two entries where the first entry has the Notifi- cation Target Information, the Noti- fication Type = OR- DER_ITEM_APPOINTMENT, and Action = STOP.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Seller Re- sponse	THEN - the Buyer receives a 201 re- sponse from the Seller indicating success.		

**Table 356 – [Test Case 329]**

[R330]The Buyer and Seller **MUST** complete [Test Case 330] as shown in Table 357.

[Test Case 330] Register for Product Order Notifications Request Negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded and has identified the Return Address Information.  The Seller supports Product Order notifications.		
Buyer Request	WHEN - the Buyer POSTs a Register for Quote Notification Request that contains the Notification Target Information, the Notification Type = PRODUCT_ORDER_STATE_CHANGE, and no action.	MEF 57.2 [3] O58, CR7<O58, CR8<O58	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - The Buyer receives a 400 response code indicating a bad request.		

**Table 357 – [Test Case 330]**

#### 23.4.2 Send Product Order Notification Test Case

The test case for the Seller generating a Product Order Notification to the Buyer when the Buyer has registered for notifications is defined in this section.

##### 23.4.2.1 Send Product Order Notification Type = ORDER\_STATE\_CHANGE

[R331] The Buyer and Seller **MUST** complete [Test Case 331] as shown in Table 358.

[Test Case 331] Seller Generate ORDER_STATE_CHANGE Notification case, ACKNOWLEDGED to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from ACKNOWLEDGED to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from ACKNOWLEDGED to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 358 – [Test Case 331]**

After completing [Test Case 331], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R332]The Buyer and Seller **MUST** complete [Test Case 332] as shown in Table 359.

[Test Case 332] Seller Generate ORDER_STATE_CHANGE Notification case, ACKNOWLEDGED to REJECTED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from ACKNOWLEDGED to REJECTED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from ACKNOWLEDGED to REJECTED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 359 – [Test Case 332]**

After completing [Test Case 332], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to REJECTED. This is described in [Test Case 304].

[R333]The Buyer and Seller **MUST** complete [Test Case 333] as shown in Table 360.

[Test Case 333] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to ASSESSING_AMEND State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from IN_PROGRESS to ASSESSING_AMEND.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from IN_PROGRESS to ASSESSING_AMEND the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 360 – [Test Case 333]**

After completing [Test Case 333], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to ASSESSING\_AMEND. This is described in [Test Case 304].

[R334]The Buyer and Seller **MUST** complete [Test Case 334] as shown in Table 361.

[Test Case 334] Seller Generate ORDER_STATE_CHANGE Notification case, ASSESSING_AMEND to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from AS-SESSING_AMEND to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from AS-SESSING_AMEND to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 361 – [Test Case 334]**

After completing [Test Case 334], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R335]The Buyer and Seller **MUST** complete [Test Case 335] as shown in Table 362.

[Test Case 335] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to ASSESSING_CANCELLATION State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from IN_PROGRESS to ASSESSING_CANCELLATION.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from IN_PROGRESS to ASSESSING_CANCELLATION the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 362 – [Test Case 335]**

After completing [Test Case 335], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to ASSESSING\_CANCELLATION. This is described in [Test Case 304].

[R336]The Buyer and Seller **MUST** complete [Test Case 336] as shown in Table 363.

[Test Case 336] Seller Generate ORDER_STATE_CHANGE Notification case, ASSESSING_CANCELLATION to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from ASSESSING_CANCELLATION to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from ASSESSING_CANCELLATION to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 363 – [Test Case 336]**

After completing [Test Case 337], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R337]The Buyer and Seller **MUST** complete [Test Case 239] as shown in Table 364.



[Test Case 337] Seller Generate ORDER_STATE_CHANGE Notification case, ASSESSING_CANCELLATION to CANCELLING State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from ASSESSING_CANCELLATION to CANCELLING.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from ASSESSING_CANCELLATION to CANCELLING the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 364 – [Test Case 337]**

After completing [Test Case 337], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to CANCELLING. This is described in [Test Case 304].

[R338]he Buyer and Seller **MUST** complete [Test Case 338] as shown in Table 365.

[Test Case 338] Seller Generate ORDER_STATE_CHANGE Notification case, CANCELLING to CANCELLED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from CANCELLING to CANCELLED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from CANCELLING to CANCELLED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 365 – [Test Case 338]**

After completing [Test Case 338], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to CANCELLED. This is described in [Test Case 304].

[R339]The Buyer and Seller **MUST** complete [Test Case 339] as shown in Table 366.

[Test Case 339] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to ASSESSING_CHARGE State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from IN_PROGRESS to ASSESSING_CHARGE.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from IN_PROGRESS to ASSESSING_CHARGE the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 366 – [Test Case 339]**

After completing [Test Case 339], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to ASSESSING\_CHARGE. This is described in [Test Case 304].

[R340]The Buyer and Seller **MUST** complete [Test Case 340] as shown in Table 367.

[Test Case 340] Seller Generate ORDER_STATE_CHANGE Notification case, ASSESSING_CHARGE to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from AS-SESSING_CHARGE to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from AS-SESSING_CHARGE to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 367 – [Test Case 340]**

After completing [Test Case 340], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].



[R341]The Buyer and Seller **MUST** complete [Test Case 341] as shown in Table 368.

[Test Case 341] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to COMPLETED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from IN_PROGRESS to COMPLETED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from IN_PROGRESS to COMPLETED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 368 – [Test Case 341]**

After completing [Test Case 341], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to COMPLETED. This is described in [Test Case 304].

[R342]The Buyer and Seller **MUST** complete [Test Case 342] as shown in Table 369.

[Test Case 342] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to FAILED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from IN_PROGRESS to FAILED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from IN_PROGRESS to FAILED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 369 – [Test Case 342]**

After completing [Test Case 342], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to FAILED. This is described in [Test Case 304].

[R343]The Buyer and Seller **MUST** complete [Test Case 343] as shown in Table 370.

[Test Case 343] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to PARTIAL State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order changes from IN_PROGRESS to PARTIAL.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order State changes from IN_PROGRESS to PARTIAL the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 370 – [Test Case 343]**

After completing [Test Case 343], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order State has changed appropriately to PARTIAL. This is described in [Test Case 304].

#### 23.4.2.2 Cancel State Change Notification Test Cases

The test cases for Cancel State Change Notifications are defined in this section.

*Editor Note 15: Test cases for Cancel State Change Notifications will be provided in a later release of the document.*

### 23.4.2.3 Product Order Item State Change Notification Test Cases

The test Cases for Product Order Item State Change Notifications are defined in this section.

[R344]The Buyer and Seller **MUST** complete [Test Case 344] as shown in Table 371.

[Test Case 344] Seller Generate ORDER_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for OR-ORDER_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from ACKNOWLEDGED to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from ACKNOWLEDGED to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of OR-ORDER_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 371 – [Test Case 344]**



After completing [Test Case 344], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R345]The Buyer and Seller **MUST** complete [Test Case 345] as shown in Table 372.

[Test Case 345] Seller Generate ORDER_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to REJECTED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for OR- DER_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from ACKNOWLEDGED to REJECTED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from ACKNOWLEDGED to REJECTED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 372 – [Test Case 345]**

After completing [Test Case 345], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to REJECTED. This is described in [Test Case 304].

[R346]The Buyer and Seller **MUST** complete [Test Case 346] as shown in Table 373.

[Test Case 346] Seller Generate ORDER_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to VALIDATED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for OR- DER_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from ACKNOWLEDGED to VALIDATED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from ACKNOWLEDGED to VALIDATED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 373 – [Test Case 346]**

After completing [Test Case 346], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to **VALIDATED**. This is described in [Test Case 304].

[R347]The Buyer and Seller **MUST** complete [Test Case 347] as shown in Table 374.

[Test Case 347] Seller Generate ORDER_ITEM_STATE_CHANGE Notification case, ACKNOWLEDGED to UNASSESSED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for OR- DER_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from ACKNOWLEDGED to UNASSESSED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from ACKNOWLEDGED to UNASSESSED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of OR- DER_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 374 – [Test Case 347]**

After completing [Test Case 347], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to UNASSESSED. This is described in [Test Case 304].

[R348]The Buyer and Seller **MUST** complete [Test Case 348] as shown in Table 375.

[Test Case 348] Seller Generate ORDER_ITEM_STATE_CHANGE Notification case, IN_PROGRESS to ASSESSING_AMEND State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for OR- DER_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to ASSESSING_AMEND.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from IN_PROGRESS to ASSESSING_AMEND the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of OR- DER_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 375 – [Test Case 348]**

After completing [Test Case 348], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to AS-SESSING\_AMEND. This is described in [Test Case 304].

[R349]The Buyer and Seller **MUST** complete [Test Case 349] as shown in Table 376.

[Test Case 349] Seller Generate ORDER_ITEM_STATE_CHANGE Notification case, ASSESSING_AMEND to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for OR-ORDER_ITEM_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from AS-SESSING_AMEND to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from AS-SESSING_AMEND to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of OR-ORDER_ITEM_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 376 – [Test Case 349]**

After completing [Test Case 349], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R350]The Buyer and Seller **MUST** complete [Test Case 350] as shown in Table 377.

[Test Case 350] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to ASSESSING_CANCELLATION State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to ASSESSING_CANCELLATION.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from IN_PROGRESS to ASSESSING_CANCELLATION the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 377 – [Test Case 350]**

After completing [Test Case 350], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to ASSESSING\_CANCELLATION. This is described in [Test Case 304].

[R351]The Buyer and Seller **MUST** complete [Test Case 351] as shown in Table 378.

[Test Case 351] Seller Generate ORDER_STATE_CHANGE Notification case, ASSESSING_CANCELLATION to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from ASSESSING_CANCELLATION to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from ASSESSING_CANCELLATION to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 378 – [Test Case 351]**

After completing [Test Case 351], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R352]The Buyer and Seller **MUST** complete [Test Case 352] as shown in Table 379.

[Test Case 352] Seller Generate ORDER_STATE_CHANGE Notification case, ASSESSING_CANCELLATION to CANCELLING State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from AS-SESSING_CANCELLATION to CANCELLING.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from AS-SESSING_CANCELLATION to CANCELLING the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 379 – [Test Case 352]**



After completing [Test Case 352], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to CANCELLING. This is described in [Test Case 304].

[R353]he Buyer and Seller **MUST** complete [Test Case 353] as shown in Table 380.

[Test Case 353] Seller Generate ORDER_STATE_CHANGE Notification case, CANCELLING to CANCELLED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from CANCELLING to CANCELLED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from CANCELLING to CANCELLED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 380 – [Test Case 353]**

After completing [Test Case 353], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to CANCELLED. This is described in [Test Case 304].

[R354]The Buyer and Seller **MUST** complete [Test Case 354] as shown in Table 381.

[Test Case 354] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to CANCELLING State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to CANCELLING.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from IN_PROGRESS to CANCELLING the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 381 – [Test Case 354]**

After completing [Test Case 354], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to CANCELLING. This is described in [Test Case 304].

[R355]The Buyer and Seller **MUST** complete [Test Case 355] as shown in Table 382.

[Test Case 355] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to COMPLETED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to COMPLETED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from IN_PROGRESS to COMPLETED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 382 – [Test Case 355]**



After completing [Test Case 355], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to COMPLETED. This is described in [Test Case 304].

[R356]The Buyer and Seller **MUST** complete [Test Case 356] as shown in Table 383.

[Test Case 356] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to FAILED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to FAILED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order Item State changes from IN_PROGRESS to FAILED the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 383 – [Test Case 356]**



After completing [Test Case 356], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to FAILED. This is described in [Test Case 304].

[R357]The Buyer and Seller **MUST** complete [Test Case 357] as shown in Table 384.

[Test Case 357] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to HELD State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to HELD.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order Item State changes from IN_PROGRESS to HELD the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 384 – [Test Case 357]**

After completing [Test Case 357], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to HELD. This is described in [Test Case 304].

[R358]The Buyer and Seller **MUST** complete [Test Case 358] as shown in Table 385.

[Test Case 358] Seller Generate ORDER_STATE_CHANGE Notification case, HELD to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from HELD to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order Item State changes from HELD to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 385 – [Test Case 358]**



After completing [Test Case 358], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

[R359]The Buyer and Seller **MUST** complete [Test Case 359] as shown in Table 386.

[Test Case 359] Seller Generate ORDER_STATE_CHANGE Notification case, IN_PROGRESS to PENDING State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from IN_PROGRESS to PENDING.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order Item State changes from IN_PROGRESS to PENDING the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 386 – [Test Case 359]**

After completing [Test Case 359], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to PENDING. This is described in [Test Case 304].

[R360]The Buyer and Seller **MUST** complete [Test Case 360] as shown in Table 387.

[Test Case 360] Seller Generate ORDER_STATE_CHANGE Notification case, PENDING to IN_PROGRESS State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from PENDING to IN_PROGRESS.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Product Order Item State changes from PENDING to IN_PROGRESS the Seller generates a Product Order Notification that includes the Product Order ID and Notification Type of ORDER_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 387 – [Test Case 360]**



After completing [Test Case 360], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item State has changed appropriately to IN\_PROGRESS. This is described in [Test Case 304].

### 23.4.2.4 Product Specific Order Milestone

The test case for Product Specific Order Milestones is defined in this section.

[R361]The Buyer and Seller **MUST** complete [Test Case 361] as shown in Table 388.

[Test Case 361] Seller Generate PRODUCT_SPECIFIC_ORDER_MILESTONE Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for PRODUCT_SPECIFIC_ORDER_MILESTONE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and a Product Order Milestone, as defined in the Product Specification, has been reached.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order reaches a Product Order Milestone the Seller generates a PRODUCT_SPECIFIC_ORDER_MILESTONE notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 388 – [Test Case 361]**

After completing [Test Case 361], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Milestone has been reached. This is described in [Test Case 304].

### 23.4.2.5 Product Specific Order Item Milestone Notification

The test case for Product Specific Order Item Milestone notification is defined in this section.

[R362]The Buyer and Seller **MUST** complete [Test Case 362] as shown in Table 389.

[Test Case 362] Seller Generate PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and a Product Order Item Milestone, as defined in the Product Specification, has been reached.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order reaches a Product Order Milestone the Seller generates a PRODUCT_SPECIFIC_ORDER_ITEM_MILESTONE notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 389 – [Test Case 362]**

After completing [Test Case 331], a Retrieve Product Order by Product Order Identifier is performed to ensure that the Product Order Item Milestone has been reached. This is described in [Test Case 304].

### **23.4.2.6 Charge Process Initiation Notification**

The test case for Charge Process Initiation notification is defined in this section.

[R363]The Buyer and Seller **MUST** complete [Test Case 362] as shown in Table 389.

[Test Case 363] Seller Generate CHARGE_PROCESS_INITIATION Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for CHARGE_PROCESS_INITIATION Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and a Charge Process is initiated.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Product Order reaches a Product Order Milestone the Seller generates a CHARGE_PROCESS_INITIATION notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 390 – [Test Case 362]**

After completing [Test Case 331], a Retrieve Product Order by Product Order Identifier is performed to ensure that a Charge Process has been initiated. This is described in [Test Case 304].

### 23.4.2.7 Charge Process State Change Notification

[R364]The Buyer and Seller **MUST** complete [Test Case 364] as shown in Table 386.

[Test Case 364] Seller Generate CHARGE_PROCESS_STATE_CHANGE Notification case, AWAITING_RESPONSE to COMPLETED State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for CHARGE_PROCESS_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from AWAITING_RESPONSE to COMPLETED.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Charge Process State changes from AWAITING_RESPONSE to COMPLETED the Seller generates a Charge Process State Change Notification that includes the Charge Process ID and Notification Type of CHARGE_PROCESS_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	<p>THEN – the Seller receives a 204 response from the Buyer indicating success.</p>		

**Table 391 – [Test Case 364]**

After completing [Test Case 364], a Retrieve Charge Process by Charge Process Identifier is performed to ensure that the Charge Process State has changed appropriately to COMPLETED. This is described in [Test Case 304].

[R365]The Buyer and Seller **MUST** complete [Test Case 365] as shown in Table 386.

[Test Case 365] Seller Generate CHARGE_PROCESS_STATE_CHANGE Notification case, AWAITING_RESPONSE to WITH-DRAWN_BY_SELLER State			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for CHARGE_PROCESS_STATE_CHANGE Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and the state of the Product Order Item changes from AWAITING_RESPONSE to WITH-DRAWN_BY_SELLER.</p> <p>The Seller supports notifications.</p>		
Seller Generates	<p>WHEN – the Charge Process State changes from AWAITING_RESPONSE to WITH-DRAWN_BY_SELLER the Seller generates a Charge Process State Change Notification that includes the Charge Process ID and Notification Type of CHARGE_PROCESS_STATE_CHANGE to the Address Information as specified when the Buyer registered for notifications.</p>	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	

[Test Case 365] Seller Generate CHARGE_PROCESS_STATE_CHANGE Notification case, AWAITING_RESPONSE to WITH-DRAWN_BY_SELLER State			
Entity	TC Step Description	Verified Requirements	Comments
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 392 – [Test Case 365]**

After completing [Test Case 365], a Retrieve Charge Process by Charge Process Identifier is performed to ensure that the Charge Process State has changed appropriately to WITH-DRAWN\_BY\_SELLER. This is described in [Test Case 304].

#### 23.4.2.8 Charge Process Timeout Notification

The test case for Charge Process Timeout Notification is defined in this section.

[R366]The Buyer and Seller **MUST** complete [Test Case 362] as shown in Table 389.

[Test Case 366] Seller Generate CHARGE_PROCESS_TIMEOUT Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for CHARGE_PROCESS_TIMEOUT Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and a Charge Process has timed out.</p> <p>The Seller supports notifications.</p>		

[Test Case 366] Seller Generate CHARGE_PROCESS_TIMEOUT Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Seller Generates	WHEN – the Charge Process reaches a timeout, the Seller generates a CHARGE_PROCESS_TIMEOUT notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 393 – [Test Case 362]**

After completing [Test Case 331], a Retrieve Product Order by Product Order Identifier is performed to ensure that a Charge Process has timed out. This is described in [Test Case 304].

#### 23.4.2.9 Product Order Expected Completion Date Set

The test case for Product Order Expected Completion Date Set Notification is defined in this section.

[R367]The Buyer and Seller **MUST** complete [Test Case 367] as shown in Table 394.

[Test Case 367] Seller Generate ORDER_EXPECTED_COMPLETION_DATE_SET Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has registered for ORDER_EXPECTED_COMPLETION_DATE_SET Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and has set an Expected</p>		

[Test Case 367] Seller Generate ORDER_EXPECTED_COMPLETION_DATE_SET Notification case			
Entity	TC Step Description	Verified Requirements	Comments
	Completion Date for the Product Order.  The Seller supports notifications.		
Seller Generates	WHEN – the Seller sets an Expected Completion Date for the Product Order, the Seller generates an ORDER_EXPECTED_COMPLETION_DATE_SET notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 394 – [Test Case 367]**

After completing [Test Case 367], a Retrieve Product Order by Product Order Identifier is performed to ensure that an Expected Completion Date has been set for the Order. This is described in [Test Case 304].

#### **23.4.2.10 Product Order Item Expected Completion Date Set**

The test case for Product Order Item Expected Completion Date Set Notification is defined in this section.

[R368]The Buyer and Seller **MUST** complete [Test Case 368] as shown in Table 395.

[Test Case 368] Seller Generate ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET Notification Type. The Buyer has POSTed a Create Product Order request as described in [Test Case 292].		



[Test Case 368] Seller Generate ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET Notification case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and has set an Expected Completion Date for the Product Order Item.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Seller sets an Expected Completion Date for the Product Order Item, the Seller generates an ORDER_ITEM_EXPECTED_COMPLETION_DATE_SET notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 395 – [Test Case 368]**

After completing [Test Case 368], a Retrieve Product Order by Product Order Identifier is performed to ensure that an Expected Completion Date has been set for the Order Item. This is described in [Test Case 304].

#### 23.4.2.11 Order Item Appointment Notification

The test case for Product Order Item Appointment Notification is defined in this section.

[R369]The Buyer and Seller **MUST** complete [Test Case 373] as shown in Table 396.

[Test Case 369] Seller Generate ORDER_ITEM_APPOINTMENT Notification case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has registered for ORDER_ITEM_APPOINTMENT Notification Type. The		

[Test Case 369] Seller Generate ORDER_ITEM_APPOINTMENT Notification case			
Entity	TC Step Description	Verified Requirements	Comments
	<p>Buyer has POSTed a Create Product Order request as described in [Test Case 292].</p> <p>The Buyer has received a 201 response from the Seller for the Create Product Order request.</p> <p>The Seller is processing the Product Order and has scheduled an Appointment for the Product Order Item.</p> <p>The Seller supports notifications.</p>		
Seller Generates	WHEN – the Seller schedules an appointment for the Product Order Item, the Seller generates an ORDER_ITEM_APPOINTMENT notification.	MEF 57.2 [3] R189, R190, R191, R192, R193, R194, R195	
Buyer Response	THEN – the Seller receives a 204 response from the Buyer indicating success.		

**Table 396 – [Test Case 373]**

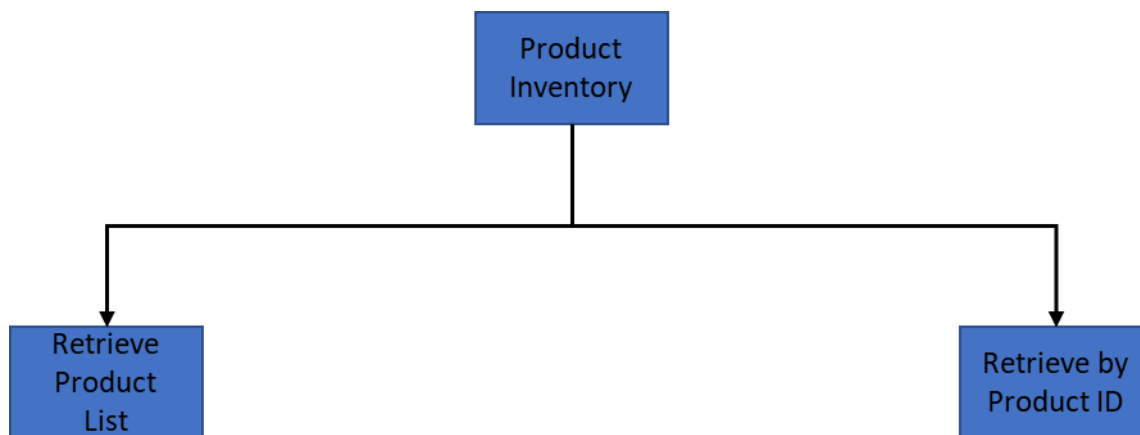
After completing [Test Case 373], a Retrieve Product Order by Product Order Identifier is performed to ensure that an Appointment has been scheduled for the Order Item. This is described in [Test Case 304].

## 24 Product Inventory

The Product Inventory test requirements and test cases are defined in this section.

### 24.1 Product Inventory API Overview

An overview of the Product Inventory API is shown in this section.



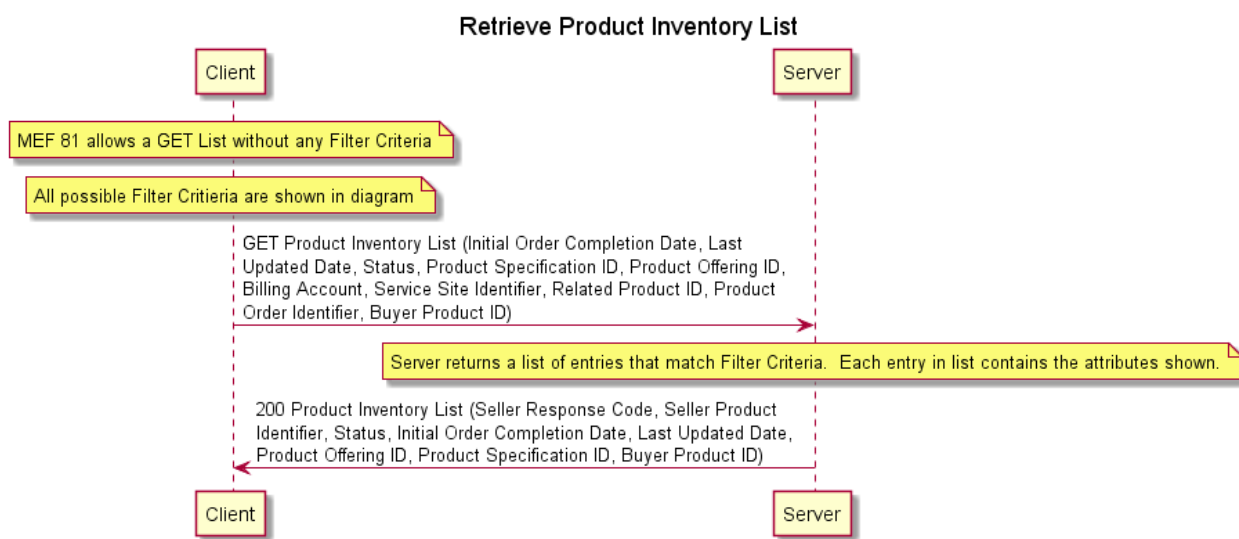
**Figure 55 – Product Inventory API Overview**

### 24.2 Product Inventory Sequence Diagrams

The Product Inventory sequence diagrams are shown in the following sections.

#### 24.2.1 Product Inventory Retrieve Product List Sequence Diagram

The Product Inventory Retrieve Product List sequence diagram is shown in Figure 56.



**Figure 56 – Product Inventory Retrieve Product List Sequence Diagram**

## 24.2.2 Product Inventory Retrieve Product by ID Sequence Diagram

The Product Inventory Retrieve Product by ID sequence diagram is shown in Figure 57.



**Figure 57 – Product Inventory Retrieve Product by ID Sequence Diagram**

## 24.3 MEF 81 and 81.0.1 Requirements

### 24.3.1 Product Inventory Retrieve List Requirements

The requirements from MEF 81 [10] for the Product Inventory Retrieve List use case are shown in Table 397.

Requirement	Entity	Tested	Test Case	Comment
R1	SB	Y		

Requirement	Entity	Tested	Test Case	Comment
R2	S	Y		
R3	B	Y		
R4	S	Y		
R7	B	Y	[Test Case 370] [Test Case 371]	
O1	B	N	[Test Case 370] [Test Case 371]	
R8	S	Y	[Test Case 370] [Test Case 371]	
O2	S	N		
O3	S	N		
R12	B	N		Buyer ID Requirement
R13	B	N		Buyer ID Requirement
R14	S	N		Seller ID Requirement
R15	S	N		Seller ID Requirement
R16	S	Y		
R17	S	Y		

**Table 397 – Product Inventory Retrieve List Requirements**

Note: MEF 81.0.1 [11] does not contain any requirements.

#### 24.3.2 Product Inventory Retrieve Product ID Requirements

The requirements from MEF 81 [10] for the Product Inventory Retrieve by Product ID use case are shown in Table 398.

Requirement	Entity	Tested	Test Case	Comment
R1	SB	Y	[Test Case 372] [Test Case 373]	
R2	S	Y	[Test Case 372] [Test Case 373]	
R5	B	Y	[Test Case 372] [Test Case 373]	
R6	S	Y	[Test Case 372] [Test Case 373]	
R9	B	Y	[Test Case 372] [Test Case 373]	
R10	S	Y	[Test Case 372] [Test Case 373]	
R11	S	Y	[Test Case 372] [Test Case 373]	
R12	B	N		Buyer ID Requirement
R13	B	N		Buyer ID Requirement
R14	S	N		Seller ID Requirement

Requirement	Entity	Tested	Test Case	Comment
R15	S	N		Seller ID Requirement
R16	S	Y		
R17	S	Y		

**Table 398 – Product Inventory Retrieve Product ID Requirements**

Note: MEF 81.0.1 [11] does not contain any requirements.

## 24.4 Product Inventory Test Cases

The test cases for Product Inventory are described below.

### 24.4.1 Product Inventory Retrieve List Test Cases

This section defines the test cases for a Buyer retrieving a list of Products from Product Inventory.

[R370] The Buyer and Seller **MUST** complete [Test Case 370] as shown in Table 399.

[Test Case 370] GET Product List from Product Inventory Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been on-boarded, has identified the desired filter criteria, and has ordered at least one product from the Seller.</p> <p>The Seller Inventory system contains at least one Product associated with the Buyer.</p>		
Buyer Request	<p>WHEN - the Buyer submits GET Product List request that includes none or one or more of the following attributes Buyer, Seller, Initial Order Completion Date, Last Updated Date, Status, Product Specification ID, Product Offering ID, Billing Account, Service Site Identifier, Related Product ID, Product Order Identifier, Buyer Product ID.</p>	MEF 81 [10] R7, O1	
Seller Response	<p>THEN - the Buyer receives a 200 response that includes the following Seller Response Code, list of one or more Seller Product Identifiers that are a match and for each Seller</p>	MEF 81 [10] R8	

[Test Case 370] GET Product List from Product Inventory Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	Product Identifier the Status, Initial Order Completion Date, Last Updated Date, Product Offering ID, Product Specification ID, Buyer Product ID.		

Table 399 – [Test Case 370]

[R371] The Buyer and Seller MUST complete [Test Case 371] as shown in Table 400.

[Test Case 371] GET Product List from Product Inventory Negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been onboarded, and has no Product Orders in the IN_PROGRESS state.  The Seller Inventory system contains at least one Product associated with the Buyer and the Product State of the Product is not IN_PROGRESS.		
Buyer Request	WHEN - the Buyer submits GET Product List request that an invalid Status = IN_PROGRESS.	MEF 81 [10] R7, O1	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per API description
Seller Response	THEN - the Buyer receives a 422 response from the Seller indicating an unexpected attribute was included in the request.	MEF 81 [10] R8	

Table 400 – [Test Case 371]

## 24.4.2 Product Inventory Retrieve Product Identifier Test Cases

This section defines the GET Product Inventory by Product Identifier Test Cases.

[R372]The Buyer and Seller **MUST** complete [Test Case 372] as shown in Table 401

[Test Case 372] GET Product Inventory by Product Identifier Positive case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	<p>GIVEN – the Buyer has been on-boarded, has identified the Product Identifier of a Product installed via a completed Product Order.</p> <p>The Seller Inventory system contains at the Product associated with the Product Identifier provided by the Buyer.</p>		
Buyer Request	WHEN - the Buyer submits GET Product Inventory by Product Identifier request that includes the Product Identifier	MEF 81 [10] R9	
Seller Response	<p>THEN - the Buyer receives a 200 response that includes the following Seller Response Code, Seller Product Identifier, Product, Status, Buyer Product Identifier, Initial Order Completion Date, Last Updated Date, Termination Date, Site [Service Site Identifier, Service Site Reference, Service Site Name], Product Offering Identifier, Product Specification Identifier, Product Relationship [Relationship Nature, Seller Product Identifier], Billing Account Identifier, Related Party [Contact Role, Contact Name, Contact Phone Number, Contact Phone Number Extension, Contact email Address], Product Order [Product Order Identifier, Product Order Item, Product Order Item Identifier, Product Order Item Term, Product</p>	MEF 81 [10] R10, R11	



[Test Case 372] GET Product Inventory by Product Identifier Positive case			
Entity	TC Step Description	Verified Requirements	Comments
	Order Item Term End Date, Agreement, Agreement [Agreement ID, Agreement Name, Agreement Path], Product Price [Price Type, Price Recurring Charge Period, Price, Price Name, Price Description], Price [Pre-Tax Value, Price Tax Rate, Price Tax Included Amount, Price Duty Free Amount, Price Unit]		

**Table 401 – [Test Case 372] GET Product Inventory by Product ID**

[R373]The Buyer and Seller **MUST** complete [Test Case 373] as shown in Table 402.

[Test Case 373]GET Product Inventory by Product Identifier Negative case			
Entity	TC Step Description	Verified Requirements	Comments
Preconditions	GIVEN – the Buyer has been on-boarded, has identified the Product Identifier of a Product that has not been installed via a completed Product Order.  The Seller Inventory system does not contain the Product associated with the Product Identifier provided by the Buyer.		
Buyer Request	WHEN - the Buyer submits GET Product Inventory by Product Identifier request that includes an invalid Product Identifier	MEF 81 [10] R9	
Validating Buyer Implementation	THEN – the Buyer receives no response from the Seller.		The Buyer POST should not be sent by their implementation since it is incorrect per

[Test Case 373]GET Product Inventory by Product Identifier Negative case			
Entity	TC Step Description	Verified Requirements	Comments
			API description
Seller Response	THEN - the Buyer receives a 404 response from the Seller indicating that the Product Identifier was not found.	MEF 81 [10] R10, R11	

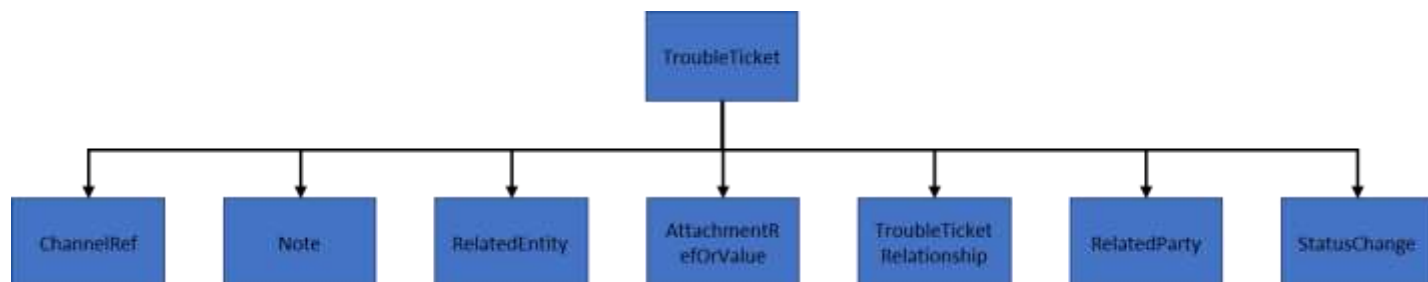
**Table 402 – [Test Case 373] GET Product Inventory by Product Identifier Negative Case**

## 25 Create Trouble Ticket

The Create Trouble Ticket test requirements and test cases are defined in this section.

### 25.1 Create Trouble Ticket API Overview

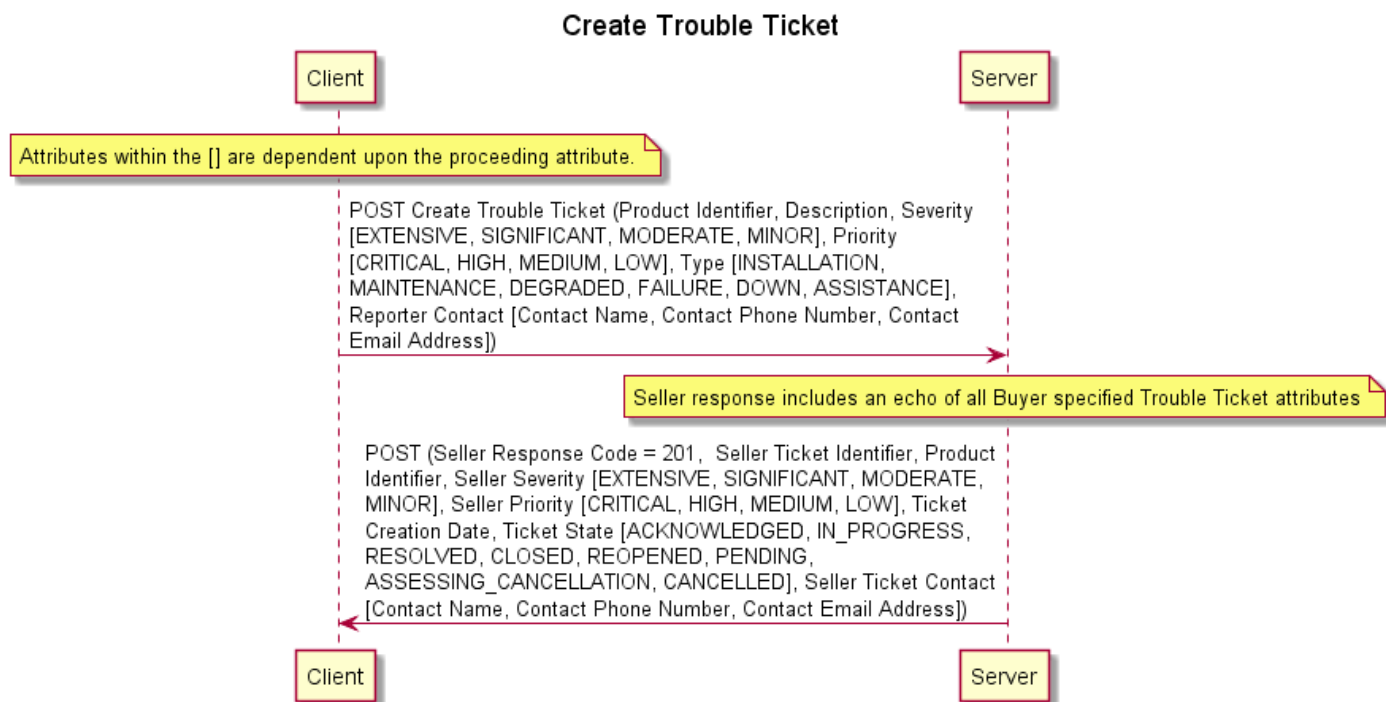
An overview of the Trouble Ticket API is provided in this section.



**Figure 58 – Trouble Ticket API Overview**

### 25.2 Create Trouble Ticket Sequence Diagrams

The Create Trouble Ticket sequence diagrams are shown in the following sections.



**Figure 59 – Create Trouble Ticket Sequence Diagram**

### 25.3 Create Trouble Ticket Requirements

The requirements from MEF W113 that address Create Trouble Ticket are shown in this section.

*Editor Note 16: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R1	B	N		
R2	S	N		
R3	SB	N		
O1	SB	N		
R4	SB	N		
R5	SB	N		
R6	SB	N		
O2	SB	N		
R7	SB	Y		
O3	SB	N		
R8	SB	N		
R9	SB	N		
R10	SB	N		
R11	SB	N		
R12	SB	N		
R13	SB	N		
R14	SB	N		
O4	SB	N		
R16	B	Y		
O5	B	N		
R17	S	Y		
R18	S	Y		
R19	S	Y		
R20	S	Y		
O6	S	N		

**Table 403 – Create Trouble Ticket Requirements**

### 25.4 Create Trouble Ticket Test Cases

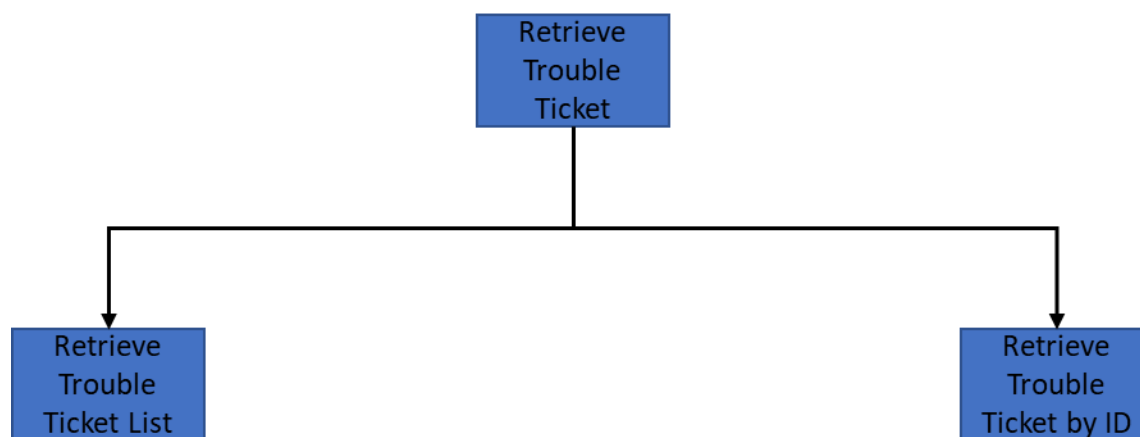
*Editor Note 17: Test cases for Create Trouble Ticket will be provided in a later release of this document.*

## 26 Retrieve Trouble Ticket

The Retrieve Trouble Ticket test requirements and test cases are defined in this section.

### 26.1 Retrieve Trouble Ticket API Overview

An overview of the Retrieve Trouble Ticket portions of the Trouble Ticket API is shown in this section.



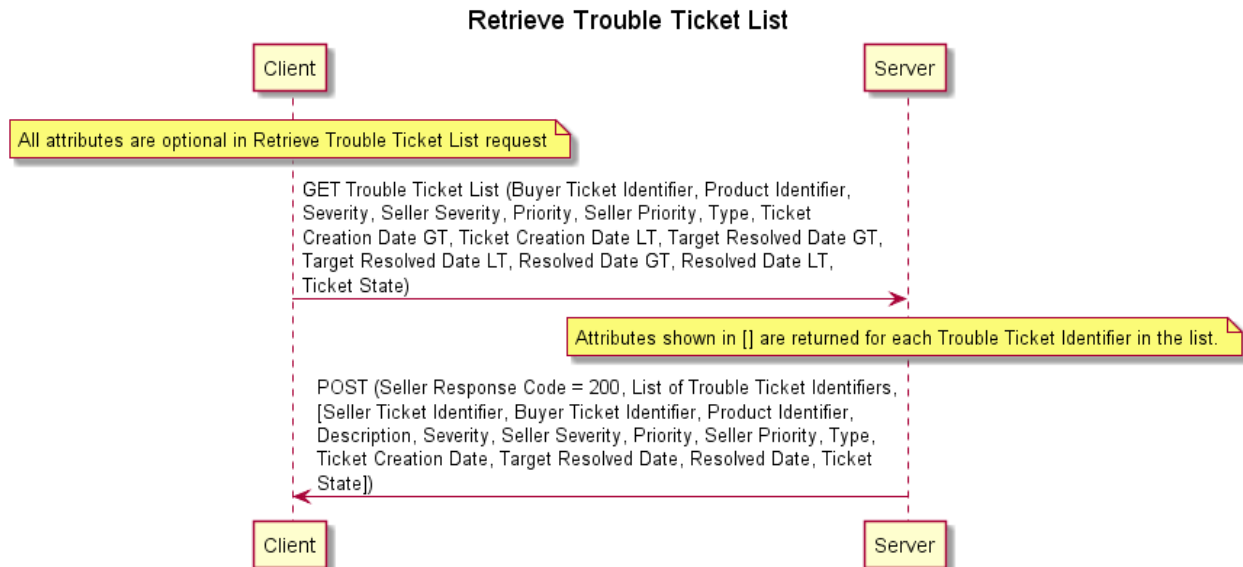
**Figure 60 – Retrieve Trouble Ticket API Overview**

### 26.2 Retrieve Trouble Ticket Sequence Diagrams

The Retrieve Trouble Ticket sequence diagrams are shown in the following sections.

#### 26.2.1 Retrieve Trouble Ticket List Sequence Diagram

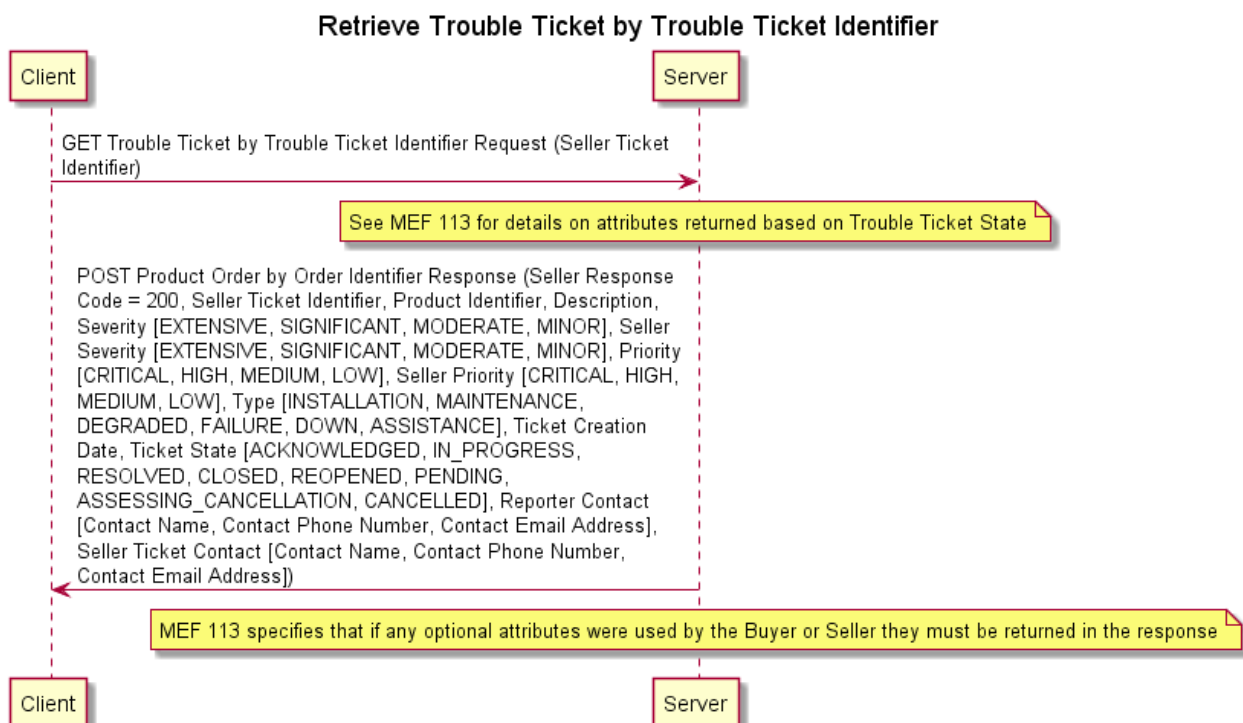
The Retrieve Trouble Ticket List sequence diagram is shown in this section.



**Figure 61 – Retrieve Trouble Ticket List Sequence Diagram**

## 26.2.2 Retrieve Trouble Ticket by Ticket Identifier

The Retrieve Trouble Ticket by Ticket Identifier sequence diagram is shown in this section.



**Figure 62 – Retrieve Trouble Ticket by Trouble Ticket Identifier Sequence Diagram**

## 26.3 Retrieve Trouble Ticket Requirements

The requirements from MEF 113 that address Retrieve Trouble Ticket are shown in this section.

*Editor Note 18: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

### 26.3.1 Retrieve Trouble Ticket List Requirements

The Retrieve Trouble Ticket List requirements are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
O11	B	Y		
O12	B	N		
R24	S	Y		
R25	S	Y		
R26	S	Y		

**Table 404 – Retrieve Trouble Ticket List Requirements**

### 26.3.2 Retrieve Trouble Ticket by Trouble Ticket Identifier Requirements

The Retrieve Trouble Ticket List requirements are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
R27	B	Y		
R28	S	Y		
R29	S	Y		
R30	S	Y		
R31	S	Y		
R32	S	Y		
R33	S	Y		

**Table 405 – Retrieve Trouble Ticket by Trouble Ticket Identifier Requirements**

## 26.4 Retrieve Trouble Ticket Test Cases

The Retrieve Trouble Ticket test cases are defined in this section of the document.

*Editor Note 19: Test cases for Retrieve Trouble Ticket will be provided in a later release of this document.*

### 26.4.1 Retrieve Trouble Ticket List Test Cases

The Retrieve Trouble Ticket List test cases are defined in this section of the document.

### **26.4.2 Retrieve Trouble Ticket by Trouble Ticket Identifier Test Cases**

The Retrieve Trouble Ticket by Trouble Ticket Identifier Test Cases are defined in this section of the document.



## 27 PATCH Trouble Ticket by Ticket Identifier

The Patch Trouble Ticket test requirements and test cases are defined in this section.

### 27.1 PATCH Trouble Ticket API Overview

See section 25.1 for the API overview.

### 27.2 Patch Trouble Ticket by Trouble Ticket Identifier Sequence Diagram

The Patch Trouble Ticket sequence diagram is shown in this section.



**Figure 63 – Patch Trouble Ticket by Ticket Identifier Sequence Diagram**

### 27.3 Patch Trouble Ticket by Ticket Identifier Requirements

The requirements from MEF 113 that address Patch Trouble Ticket by Ticket Identifier are shown in this section.

*Editor Note 20: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R33	B	Y		
R34	B	Y		
R35	B	Y		
O13	B	N		
R36	S	Y		
R37	S	Y		



Requirement	Entity	Tested	Test Case	Comment
R38	S	Y		
R39	S	Y		
R40	S	Y		
R41	S	Y		Tested by performing Retrieve Trouble Ticket by Ticket ID and verifying that value has been added/modified
R42	S	Y		Tested by performing Retrieve Trouble Ticket by Ticket ID and verifying that value has been added/modified
R43	S	Y		Tested by performing Retrieve Trouble Ticket by Ticket ID and verifying that value has been added/modified
R44	S	Y		Tested by performing Retrieve Trouble Ticket by Ticket ID and verifying that value has been added/modified
R45	S	Y		Tested by performing Retrieve Trouble Ticket by Ticket ID and verifying that value has been added/modified

**Table 406 – Patch Trouble Ticket by Ticket Identifier Requirements****27.4 Patch Trouble Ticket by Ticket Identifier Test Cases**

The Patch Trouble Ticket by Ticket Identifier Test Cases are defined in this section.

*Editor Note 21: PATCH Trouble Ticket test cases will be provided in a later revision of this document.*

## 28 Cancel Trouble Ticket by Ticket Identifier

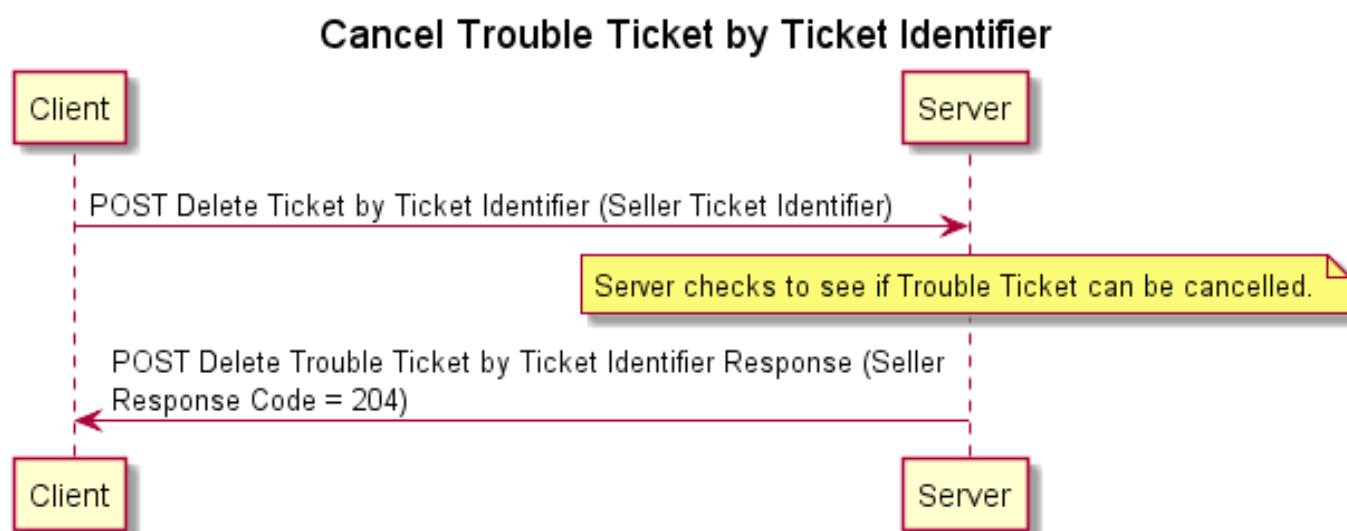
The Cancel Trouble Ticket by Ticket Identifier test requirements and test cases are defined in this section.

### 28.1 Cancel Trouble Ticket API Overview

See section 25.1 for the API overview.

### 28.2 Cancel Trouble Ticket by Trouble Ticket Identifier Sequence Diagram

The Cancel Trouble Ticket by Ticket Identifier sequence diagram is shown in this section.



**Figure 64 – Cancel Trouble Ticket by Ticket Identifier Sequence Diagram**

### 28.3 Cancel Trouble Ticket by Ticket Identifier Requirements

The requirements from MEF 113 that address Cancel Trouble Ticket by Ticket Identifier are shown in this section.

*Editor Note 22: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R46	B	Y		
R47	S	Y		
R48	S	Y		
R49	S	Y		



Requirement	Entity	Tested	Test Case	Comment
R50	S	Y		
R51	S	Y		

**Table 407 – Cancel Trouble Ticket by Ticket Identifier Requirements****28.4 Cancel Trouble Ticket by Ticket Identifier Test Cases**

The Cancel Trouble Ticket by Ticket Identifier Test Cases are defined in this section.

*Editor Note 23: Test cases for Cancel Trouble Ticket will be provided in a later release of this document.*

## 29 Respond to Trouble Ticket Clearance Notification

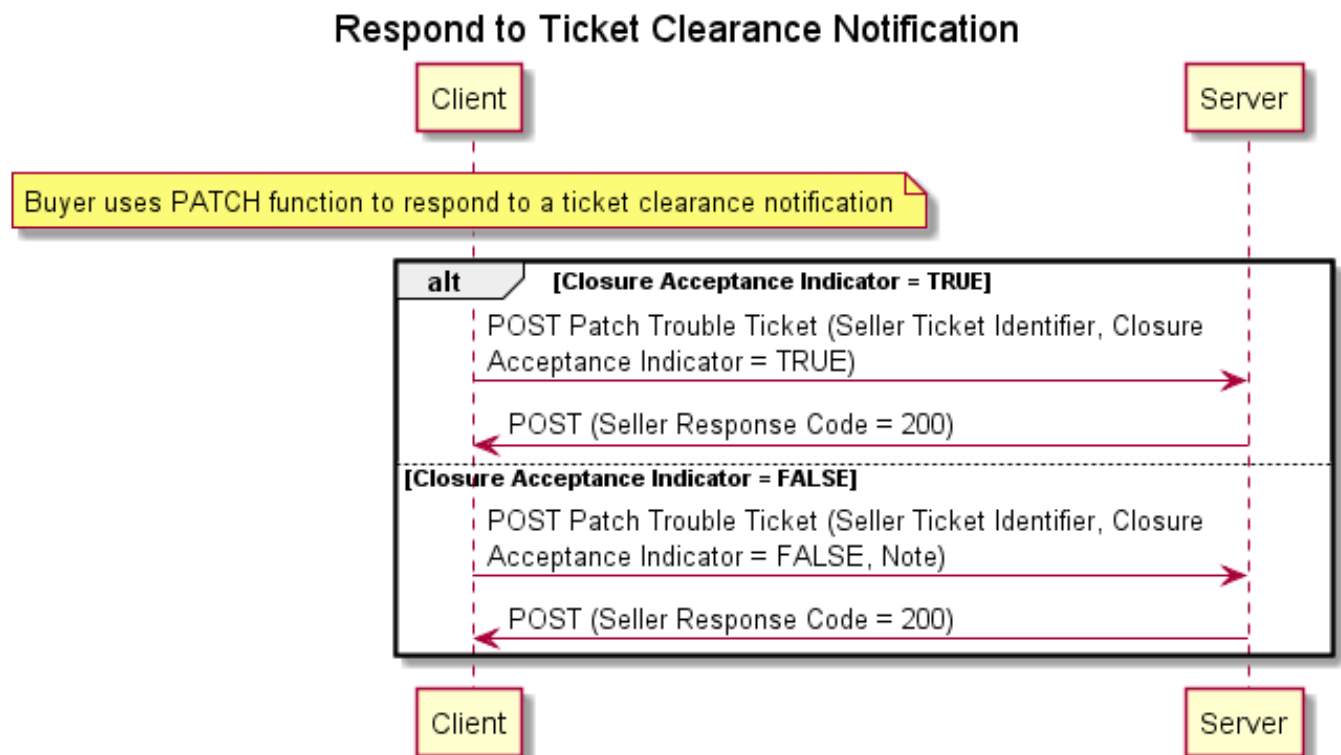
The Respond to Trouble Ticket Clearance Notification test requirements and test cases are defined in this section.

### 29.1 Respond to Trouble Ticket Clearance Notification API Overview

See section 25.1 for the API overview.

### 29.2 Respond to Trouble Ticket Clearance Notification Sequence Diagram

The Respond to Trouble Ticket Clearance Notification sequence diagram is shown in this section.



**Figure 65 – Respond to Trouble Ticket Clearance Notification Sequence Diagram**

### 29.3 Respond to Trouble Ticket Clearance Notification Requirements

The requirements from MEF 113 that address Respond to Trouble Ticket Clearance Notification are shown in this section.

*Editor Note 24: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R52	B	Y		
R53	B	Y		
R54	B	Y		
R55	S	Y		
R56	S	Y		
R57	S	Y		
R58	S	Y		
R59	S	Y		

**Table 408 – Respond to Trouble Ticket Clearance Notification Requirements**

#### **29.4 Respond to Trouble Ticket Clearance Notification Test Cases**

The Respond to Trouble Ticket Clearance Notification Test Cases are defined in this section.

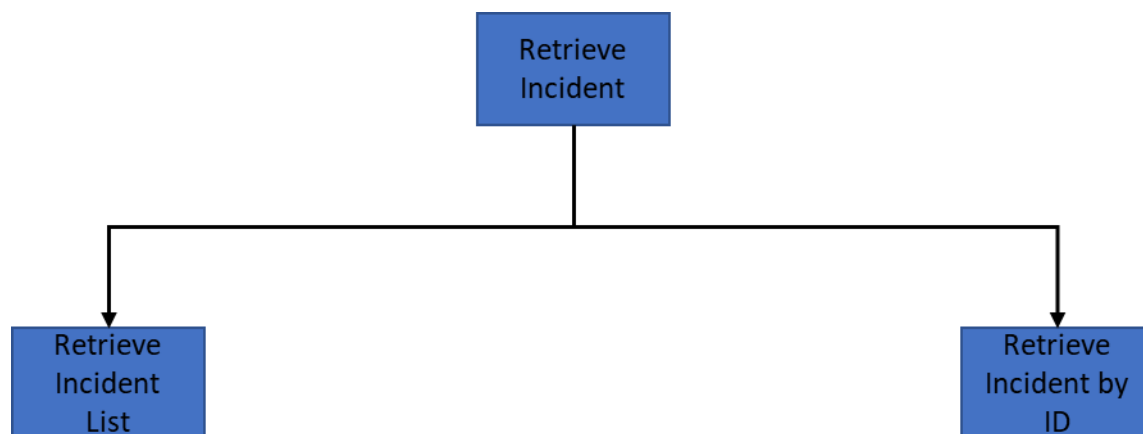
*Editor Note 25: Test cases for Respond to Trouble Ticket Notification will be provided in a later release of this document.*

## 30 Retrieve Incident

The Retrieve Incident List and Retrieve Incident by Incident Identifier test requirements and test cases are defined in this section.

### 30.1 Retrieve Incident API Overview

A Retrieve Incident API overview is provided in this section.



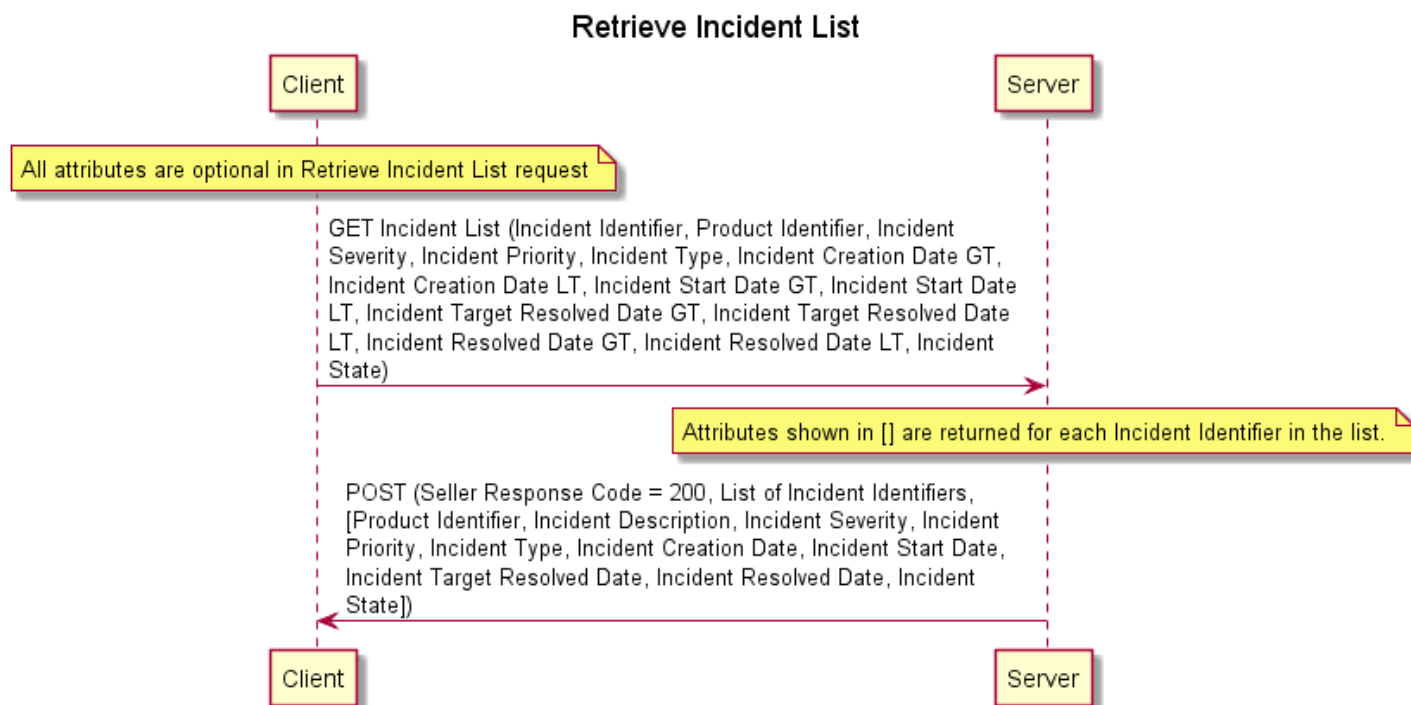
**Figure 66 – Retrieve Incident API Overview**

### 30.2 Retrieve Incident Sequence Diagram

The Retrieve Incident List and Retrieve Incident by Incident Identifier sequence diagram is shown in this section.

#### 30.2.1 Retrieve Incident List Sequence Diagram

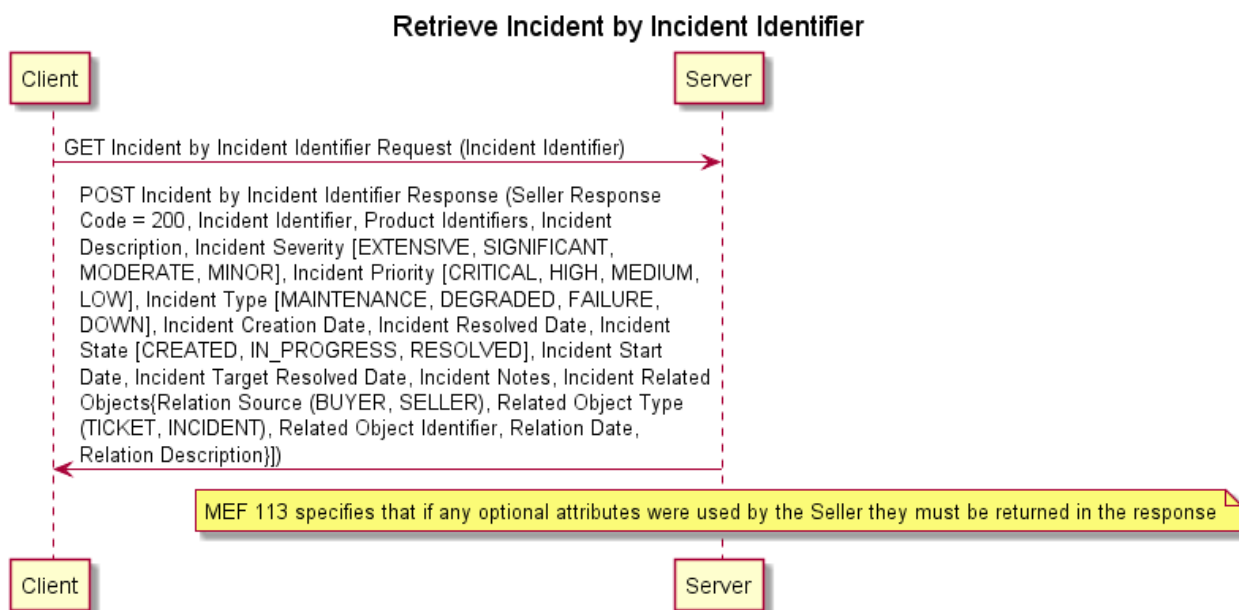
The Retrieve Incident List sequence diagram is shown in this section.



**Figure 67 – Retrieve Incident List Sequence Diagram**

### 30.2.2 Retrieve Incident by Incident Identifier Sequence Diagram

The Retrieve Incident by Incident Identifier sequence diagram is shown in this section.



**Figure 68 – Retrieve Incident by Incident Identifier Sequence Diagram**



### 30.3 Retrieve Incident Requirements

The requirements from MEF 113 that address Retrieve Incident List and Retrieve Incident by Incident Identifier are shown in this section.

*Editor Note 26: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

#### 30.3.1 Retrieve Incident List Requirements

The requirements from MEF 113 that address Retrieve Incident List are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
O14	B	Y		
O15	B	Y		
R91	S	Y		
R92	S	Y		
R93	S	Y		

**Table 409 – Retrieve Incident List Requirements**

#### 30.3.2 Retrieve Incident by Incident Identifier Requirements

The requirements from MEF 113 that address Retrieve Incident by Incident Identifier are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
R94	B	Y		
R95	S	Y		
R96	S	Y		
R97	S	Y		
R98	S	Y		

**Table 410 – Retrieve Incident by Incident Identifier Requirements**

### 30.4 Retrieve Incident Test Cases

The Retrieve Incident Test Cases are defined in this section.

*Editor Note 27: Test cases for Retrieve Incident will be provided in a later release of this document.*

#### 30.4.1 Retrieve Incident List Test Cases

The Retrieve Incident List test cases are shown in this section.

**30.4.2 Retrieve Incident by Incident Identifier Test Cases**

The Retrieve Incident by Incident Identifier test cases are shown in this section.

## 31 Trouble Ticket and Incident Notification

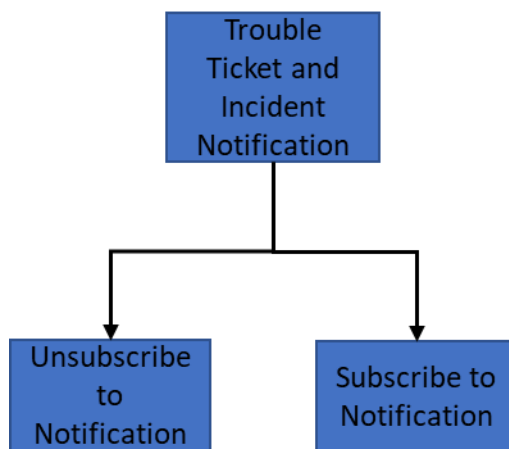
The requirements and test cases for Ticket and Incident Notifications are defined in this section.

### 31.1 Trouble Ticket and Incident Notification API Overview

An overview of the Trouble Ticket and Incident Notification API is described in this section.

#### 31.1.1 Register for Notifications API Overview

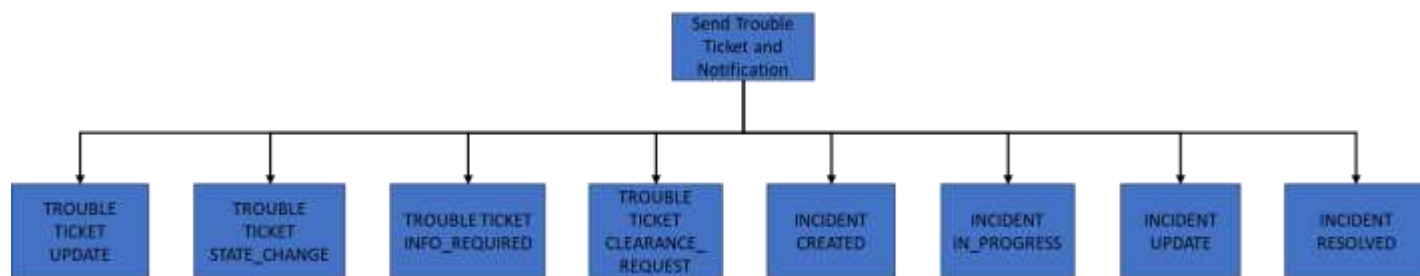
The Register for Notifications function is included in the Trouble Ticket Management API.



**Figure 69 – Register for Trouble Ticket and Incident Notification API Overview**

#### 31.1.2 Send Trouble Ticket and Incident Notification API Overview

An overview of the Trouble Ticket Notification API is shown in this section.

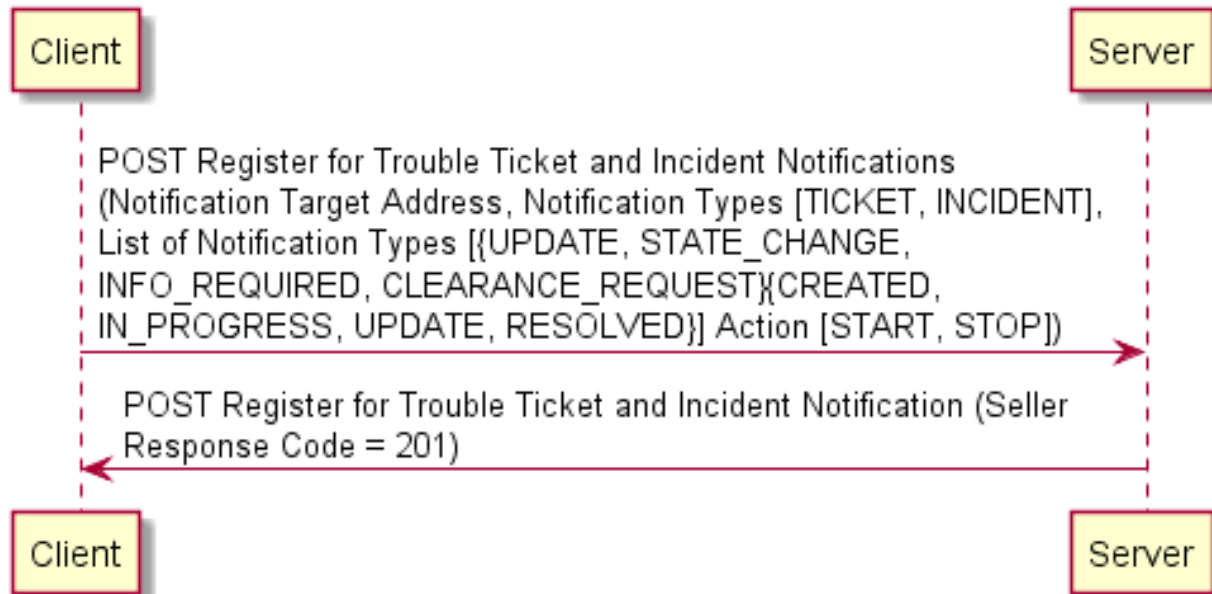


**Figure 70 – Send Trouble Ticket and Incident Notification API Overview**

### 31.2 Trouble Ticket and Incident Notification Sequence Diagrams

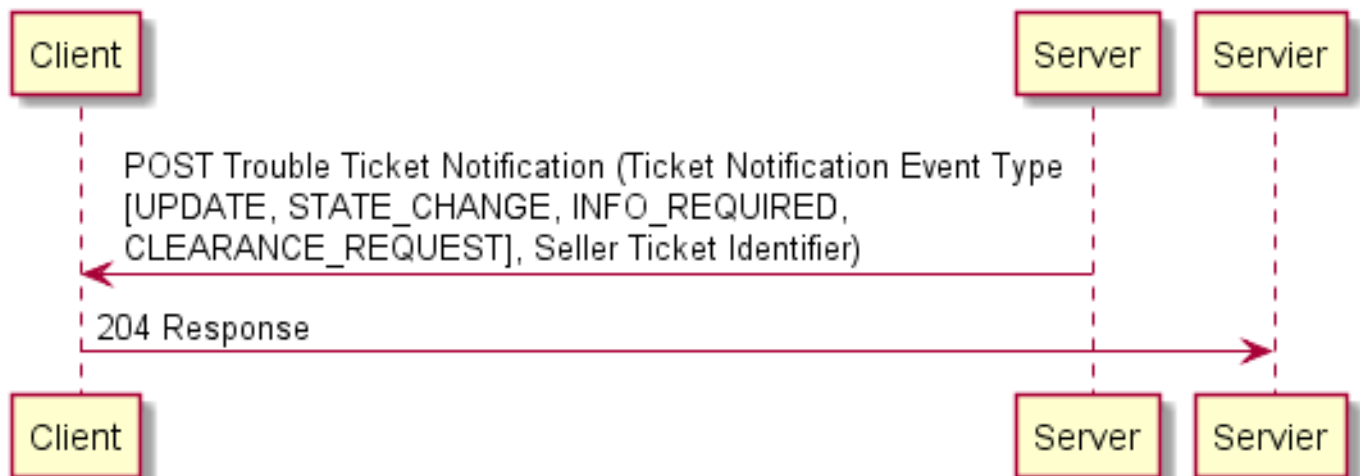
The sequence diagrams for register for Trouble Ticket and Incident Notification and send Trouble Ticket and Incident Notification are shown in this section.

## Register for Trouble Ticket and Incident Notifications

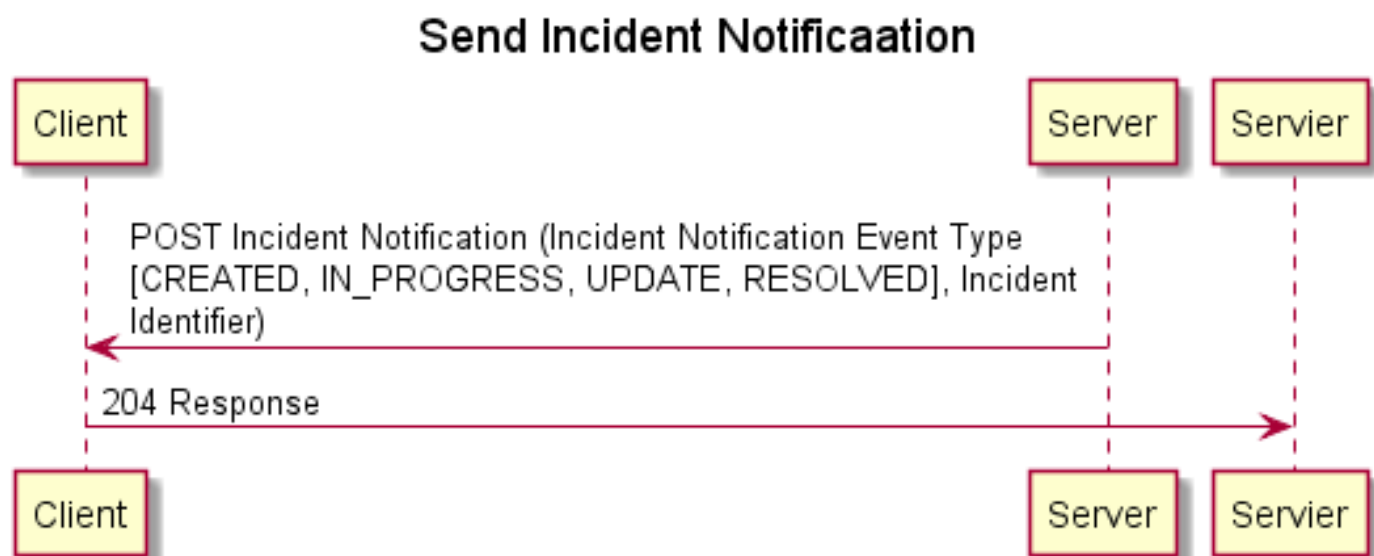


**Figure 71 – Register for Trouble Ticket and Incident Notification Sequence Diagram**

## Send Trouble Ticket Notificaation



**Figure 72 – Seller Send Trouble Ticket Notification Sequence Diagram**



**Figure 73 – Seller Send Incident Notification Sequence Diagram**

### 31.3 Trouble Ticket and Incident Notification Requirements

The requirements from MEF W113 that address Register for Trouble Ticket and Incident Notifications, Trouble Ticket Notification and Incident Notification are shown in this section.

#### 31.3.1 Register for Trouble Ticket and Incident Notifications Requirements

The requirements from MEF W113 that address Register for Trouble Ticket and Incident Notifications are shown in this section.

*Editor Note 28: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R99	B	Y		
R100	B	Y		
R101	B	Y		
R102	S	Y		

**Table 411 – Register for Trouble Ticket and Incident Notifications Requirements**

#### 31.3.2 Send Trouble Ticket Notification

The requirements from MEF W113 that address Trouble Ticket Notification are shown in this section.

Requirement	Entity	Tested	Test Case	Comment
R103	S	Y		
R104	B	Y		
R105	S	Y		
R106	S	Y		
R107	S	Y		
R108	S	Y		
R109	S	Y		
R110	S	N		
R111	B	N		
R112	S	N		

**Table 412 – Send Trouble Ticket Notification Requirements**

#### 31.3.3 Send Incident Notification

The requirements from MEF W113 that address Incident Notification are shown in this section.



Requirement	Entity	Tested	Test Case	Comment
R113	S	Y		
R114	S	Y		
R115	S	Y		
R116	S	Y		
R117	S	Y		
R118	S	Y		
R119	S	Y		

**Table 413 – Send Trouble Ticket Notification Requirements**

### **31.4 Trouble Ticket and Incident Notification Test Cases**

The test cases for Trouble Ticket and Incident Notification are defined in this section.

*Editor Note 29: Test cases for Trouble Ticket and Incident Notification will be provided in a later release of this document.*

#### **31.4.1 Register for Trouble Ticket and Incident Notifications Test Case**

The test cases for Register for Trouble Ticket and Incident Notification test cases are shown in this section.

#### **31.4.2 Send Trouble Ticket Notifications Test Case**

The test cases for Send Trouble Ticket Notification test cases are shown in this section.

#### **31.4.3 Send Incident Notifications Test Case**

The test cases for Send Incident Notification test cases are shown in this section.

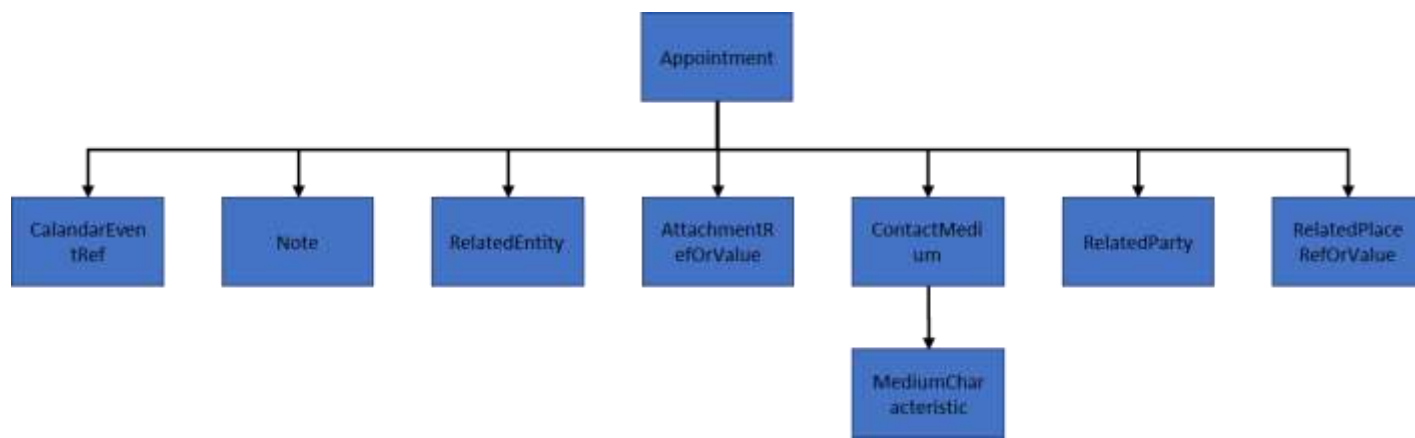
## 32 Negotiate Appointment

The requirements and test cases for Negotiate Appointment are defined in this section.

*Editor Note 30: The method used to identify a timeslot and create an Appointment within MEF W113 is being revised. This section will be updated once those revisions are complete.*

### 32.1 Negotiate Appointment API Overview

An overview of the Negotiate Appointment API is described in this section.

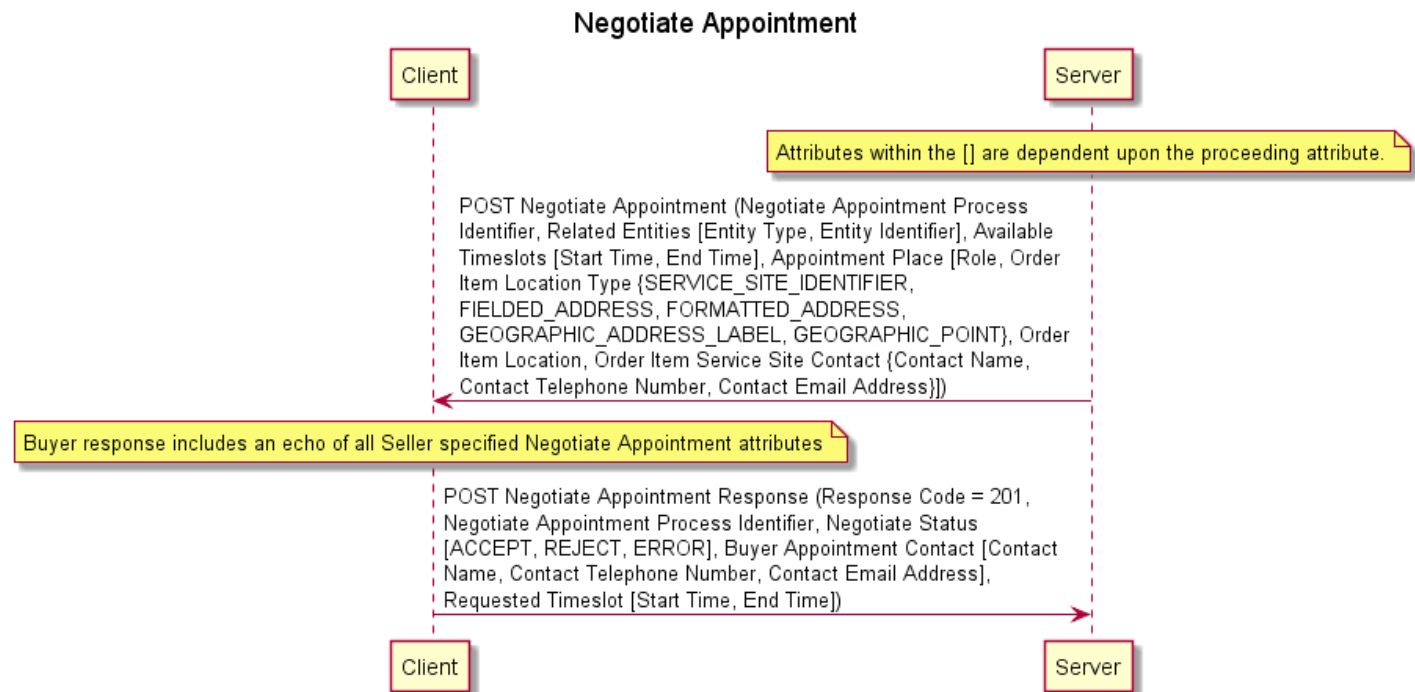


**Figure 74 – Negotiate Appointment API Overview**

### 32.2 Negotiate Appointment Sequence Diagrams

The sequence diagrams for negotiate Appointment are shown in this section.





**Figure 75 – Negotiate Appointment Sequence Diagram**

### 32.3 Negotiate Appointment Requirements

The requirements from MEF W113 that address Negotiate Appointment are shown in this section.

*Editor Note 31: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R60	S	Y		
R61	S	Y		
R62	B	Y		
R63	B	Y		
R64	B	Y		
R65	B	Y		
R66	B	Y		
R67	B	Y		
R68	B	Y		

**Table 414 – Negotiate Appointment Requirements**

## **32.4 Negotiate Appointment Test Cases**

The test cases for Negotiate Appointment are shown in this section.

*Editor Note 32: Test cases for Appointments will be provided in a later release of this document.*

### 33 Create Appointment

The requirements and test cases for Create Appointment are defined in this section.

*Editor Note 33: At this time, there are no requirements or sequence of events to create an Appointment in MEF W113. This section will be updated if this is added or deleted if it is not.*

#### 33.1 Create Appointment API Overview

An overview of the Create Appointment API is described in this section.

**Figure 76 – Create Appointment API Overview**

#### 33.2 Create Appointment Sequence Diagrams

The sequence diagrams for Create Appointment are shown in this section.

**Figure 77 – Create Appointment Sequence Diagram**

#### 33.3 Create Appointment Requirements

The requirements from MEF W113 that address Create Appointment are shown in this section.

Requirement	Entity	Tested	Test Case	Comment

**Table 415 – Create Appointment Requirements**

#### 33.4 Create Appointment Test Cases

The test cases for Create Appointment are shown in this section.

## 34 Update Appointment

The requirements and test cases for Update Appointment are defined in this section.

*Editor Note 34: The Update Appointment Process as described in MEF W113 is being revised at this time. This section will be updated once the revisions are completed.*

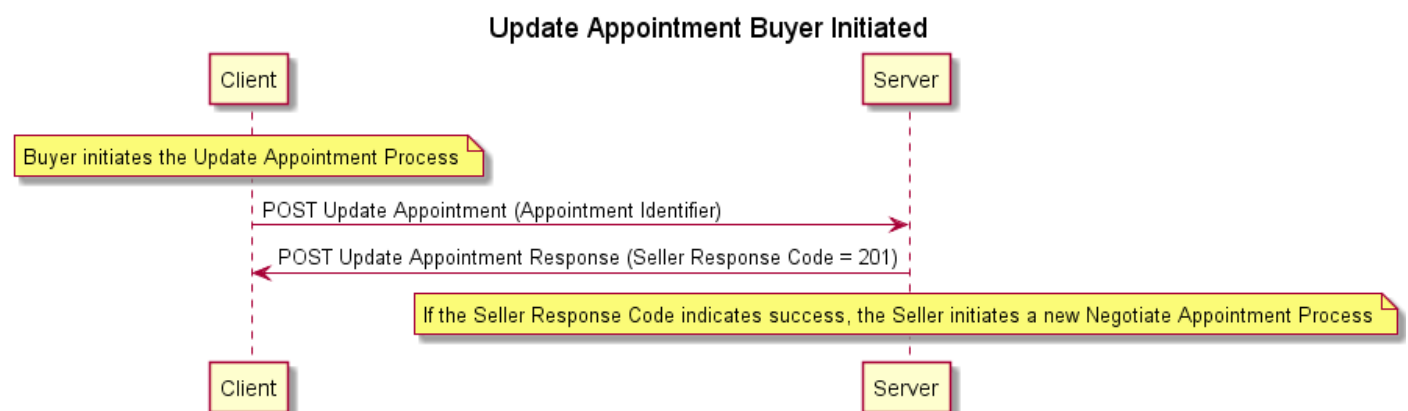
### 34.1 Update Appointment API Overview

An overview of the Update Appointment API is described in this section.

**Figure 78 – Update Appointment API Overview**

### 34.2 Update Appointment Sequence Diagrams

The sequence diagrams for Update Appointment are shown in this section.



**Figure 79 – Update Appointment Sequence Diagram**

### 34.3 Update Appointment Requirements

The requirements from MEF W113 that address Update Appointment are shown in this section.

*Editor Note 35: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*

Requirement	Entity	Tested	Test Case	Comment
R77	B	Y		
R78	S	Y		
R79	S	Y		
R80	S	Y		
R81	S	Y		
R82	S	Y		
R83	S	Y		

**Table 416 – Update Appointment Requirements**

### 34.4 Update Appointment Test Cases

The test cases for Update Appointment are shown in this section.

*Editor Note 36: Test cases for Update Appointment will be included in a later revision of this document.*

## 35 Cancel Appointment

The requirements and test cases for Cancel Appointment are defined in this section.

*Editor Note 37: The Cancel Appointment Process as described in MEF W113 is being updated. This section will be revised once those updates are completed.*

### 35.1 Cancel Appointment API Overview

See section 32.1 for the API overview.

### 35.2 Cancel Appointment Sequence Diagrams

The sequence diagrams for Cancel Appointment are shown in this section.



**Figure 80 – Cancel Appointment Sequence Diagram**

### 35.3 Cancel Appointment Requirements

The requirements from MEF W113 that address Cancel Appointment are shown in this section.

*Editor Note 38: The requirements in MEF W113 are being revised and the requirement numbering is not consistent with this table. As the requirement numbering stabilizes in MEF W113 this section will be updated along with tested requirements for each test case in the Trouble Ticket sections.*



Requirement	Entity	Tested	Test Case	Comment
R84	B	Y		
R85	S	Y		
R86	S	Y		
R87	S	Y		
R88	S	Y		
R89	S	Y		
R90	S	Y		

**Table 417 – Cancel Appointment Requirements**

### 35.4 Cancel Appointment Test Cases

The test cases for Cancel Appointment are shown in this section.

*Editor Note 39: Test cases for Cancel Appointment will be provided in a later release of this document.*

### 36 Test Case to Release Matrix

Table 418 shows which Test Cases are applicable for which MEF release starting with RC4.

Test Case	SDK RC 4	SDK RC 5	Aretha	Billie	Comments
[Test Case 1]	X	X	X	X	
[Test Case 2]	X	X	X	X	
[Test Case 3]	X	X	X	X	
[Test Case 4]	X	X	X	X	
[Test Case 5]	X	X	X	X	
[Test Case 6]	X	X	X	X	
[Test Case 7]	X	X	X	X	
[Test Case 8]	X	X	X	X	
[Test Case 9]	X	X	X	X	
[Test Case 10]	X	X	X	X	
[Test Case 11]	X	X	X	X	
[Test Case 12]	X	X	X	X	
[Test Case 13]			X	X	Term Reference Address still used in RC 4 and RC 5
[Test Case 14]			X	X	
[Test Case 15]			X	X	
[Test Case 16]				X	
[Test Case 17]				X	
[Test Case 18]			X	X	
[Test Case 19]			X	X	
[Test Case 20]				X	
[Test Case 21]				X	
[Test Case 22]			X	X	Single relationship attribute in RC 4 and RC 5
[Test Case 23]			X	X	
[Test Case 24]			X	X	
[Test Case 25]			X	X	
[Test Case 26]			X	X	
[Test Case 27]			X	X	
[Test Case 28]			X	X	
[Test Case 29]			X	X	
[Test Case 30]			X	X	
[Test Case 31]			X	X	
[Test Case 32]			X	X	
[Test Case 33]			X	X	
[Test Case 34]			X	X	
[Test Case 35]			X	X	
[Test Case 36]			X	X	



**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 37]			X	X	
[Test Case 38]			X	X	
[Test Case 39]			X	X	
[Test Case 40]			X	X	
[Test Case 41]			X	X	
[Test Case 42]			X	X	
[Test Case 43]			X	X	
[Test Case 44]			X	X	
[Test Case 45]			X	X	
[Test Case 46]			X	X	
[Test Case 47]			X	X	
[Test Case 48]			X	X	
[Test Case 49]			X	X	
[Test Case 50]			X	X	
[Test Case 51]			X	X	
[Test Case 52]			X	X	
[Test Case 53]			X	X	
[Test Case 54]			X	X	
[Test Case 55]			X	X	
[Test Case 56]			X	X	
[Test Case 57]			X	X	
[Test Case 58]			X	X	
[Test Case 59]			X	X	
[Test Case 60]			X	X	
[Test Case 61]			X	X	
[Test Case 62]			X	X	
[Test Case 63]			X	X	
[Test Case 64]			X	X	
[Test Case 65]			X	X	
[Test Case 66]			X	X	
[Test Case 67]			X	X	
[Test Case 68]			X	X	
[Test Case 69]			X	X	
[Test Case 70]			X	X	
[Test Case 71]			X	X	
[Test Case 72]			X	X	
[Test Case 73]			X	X	
[Test Case 74]			X	X	
[Test Case 75]			X	X	
[Test Case 76]			X	X	
[Test Case 77]	X	X	X	X	
[Test Case 78]	X	X	X	X	
[Test Case 79]	X	X	X	X	
[Test Case 80]	X	X	X	X	

**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 81]	X	X	X	X	
[Test Case 82]	X	X	X	X	
[Test Case 83]	X	X	X	X	
[Test Case 84]	X	X	X	X	
[Test Case 85]		X	X	X	
[Test Case 86]		X	X	X	
[Test Case 87]		X	X	X	
[Test Case 88]		X	X	X	
[Test Case 89]		X	X	X	
[Test Case 90]		X	X	X	
[Test Case 91]		X	X	X	
[Test Case 92]		X	X	X	
[Test Case 93]		X	X	X	
[Test Case 94]		X	X	X	
[Test Case 95]		X	X	X	
[Test Case 96]		X	X	X	
[Test Case 97]		X	X	X	
[Test Case 98]		X	X	X	
[Test Case 99]		X	X	X	
[Test Case 100]		X	X	X	
[Test Case 101]		X	X	X	
[Test Case 102]		X	X	X	
[Test Case 103]		X	X	X	
[Test Case 104]		X	X	X	
[Test Case 105]		X	X	X	
[Test Case 106]		X	X	X	
[Test Case 107]		X	X	X	
[Test Case 108]		X	X	X	
[Test Case 109]		X	X	X	
[Test Case 110]		X	X	X	
[Test Case 111]		X	X	X	
[Test Case 112]		X	X	X	
[Test Case 113]		X	X	X	
[Test Case 114]		X	X	X	
[Test Case 115]		X	X	X	
[Test Case 116]		X	X	X	
[Test Case 117]		X	X	X	
[Test Case 118]		X	X	X	
[Test Case 119]		X	X	X	
[Test Case 120]		X	X	X	
[Test Case 121]		X	X	X	
[Test Case 122]		X	X	X	
[Test Case 123]		X	X	X	
[Test Case 124]		X	X	X	

**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 125]		X	X	X	
[Test Case 126]		X	X	X	
[Test Case 127]		X	X	X	
[Test Case 128]		X	X	X	
[Test Case 129]		X	X	X	
[Test Case 130]		X	X	X	
[Test Case 131]		X	X	X	
[Test Case 132]		X	X	X	
[Test Case 133]		X	X	X	
[Test Case 134]		X	X	X	
[Test Case 135]		X	X	X	
[Test Case 136]		X	X	X	
[Test Case 137]		X	X	X	
[Test Case 138]		X	X	X	
[Test Case 139]		X	X	X	
[Test Case 140]		X	X	X	
[Test Case 141]		X	X	X	
[Test Case 142]		X	X	X	
[Test Case 143]		X	X	X	
[Test Case 144]		X	X	X	
[Test Case 145]		X	X	X	
[Test Case 146]		X	X	X	
[Test Case 147]		X	X	X	
[Test Case 148]		X	X	X	
[Test Case 149]		X	X	X	
[Test Case 150]		X	X	X	
[Test Case 151]		X	X	X	
[Test Case 152]		X	X	X	
[Test Case 153]		X	X	X	
[Test Case 154]		X	X	X	
[Test Case 155]		X	X	X	
[Test Case 156]		X	X	X	
[Test Case 157]		X	X	X	
[Test Case 158]		X	X	X	
[Test Case 159]		X	X	X	
[Test Case 160]		X	X	X	
[Test Case 161]		X	X	X	
[Test Case 162]		X	X	X	
[Test Case 163]		X	X	X	
[Test Case 164]		X	X	X	
[Test Case 165]		X	X	X	
[Test Case 166]		X	X	X	
[Test Case 167]		X	X	X	
[Test Case 168]		X	X	X	

**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 169]		X	X	X	
[Test Case 170]		X	X	X	
[Test Case 171]		X	X	X	
[Test Case 172]		X	X	X	
[Test Case 173]		X	X	X	
[Test Case 174]		X	X	X	
[Test Case 175]		X	X	X	
[Test Case 176]		X	X	X	
[Test Case 177]		X	X	X	
[Test Case 178]		X	X	X	
[Test Case 179]		X	X	X	
[Test Case 180]		X	X	X	
[Test Case 181]		X	X	X	
[Test Case 182]		X	X	X	
[Test Case 183]		X	X	X	
[Test Case 184]		X	X	X	
[Test Case 185]		X	X	X	
[Test Case 186]		X	X	X	
[Test Case 187]		X	X	X	
[Test Case 188]		X	X	X	
[Test Case 189]		X	X	X	
[Test Case 190]		X	X	X	
[Test Case 191]		X	X	X	
[Test Case 192]		X	X	X	
[Test Case 193]		X	X	X	
[Test Case 194]		X	X	X	
[Test Case 195]		X	X	X	
[Test Case 196]		X	X	X	
[Test Case 197]		X	X	X	
[Test Case 198]		X	X	X	
[Test Case 199]		X	X	X	
[Test Case 200]		X	X	X	
[Test Case 201]		X	X	X	
[Test Case 202]		X	X	X	
[Test Case 203]		X	X	X	
[Test Case 204]		X	X	X	
[Test Case 205]		X	X	X	
[Test Case 206]		X	X	X	
[Test Case 207]		X	X	X	
[Test Case 208]		X	X	X	
[Test Case 209]		X	X	X	
[Test Case 210]		X	X	X	
[Test Case 211]		X	X	X	
[Test Case 212]		X	X	X	

**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 213]		X	X	X	
[Test Case 214]		X	X	X	
[Test Case 215]		X	X	X	
[Test Case 216]		X	X	X	
[Test Case 217]		X	X	X	
[Test Case 218]		X	X	X	
[Test Case 219]		X	X	X	
[Test Case 220]		X	X	X	
[Test Case 221]		X	X	X	
[Test Case 222]				X	
[Test Case 223]				X	
[Test Case 224]		X	X	X	
[Test Case 225]		X	X	X	
[Test Case 226]		X	X	X	
[Test Case 227]			X	X	
[Test Case 228]			X	X	
[Test Case 229]		X	X	X	
[Test Case 230]		X	X	X	
[Test Case 231]		X	X	X	
[Test Case 232]		X	X	X	
[Test Case 233]		X	X	X	
[Test Case 234]		X	X	X	
[Test Case 235]		X	X	X	
[Test Case 236]		X	X	X	
[Test Case 237]				X	
[Test Case 238]		X	X	X	
[Test Case 239]		X	X	X	
[Test Case 240]		X	X	X	
[Test Case 241]		X	X	X	
[Test Case 242]		X	X	X	
[Test Case 243]				X	
[Test Case 244]		X	X	X	
[Test Case 245]		X	X	X	
[Test Case 246]				X	
[Test Case 247]		X	X	X	
[Test Case 248]		X	X	X	
[Test Case 249]				X	
[Test Case 250]				X	
[Test Case 251]		X	X	X	
[Test Case 252]		X	X	X	
[Test Case 253]		X	X	X	
[Test Case 254]		X	X	X	
[Test Case 255]		X	X	X	
[Test Case 256]		X	X	X	

**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 257]	X	X			
[Test Case 258]	X	X			
[Test Case 259]	X	X			
[Test Case 260]	X	X			
[Test Case 261]	X	X			
[Test Case 262]	X	X			
[Test Case 263]	X	X			
[Test Case 264]	X	X			
[Test Case 265]	X	X			
[Test Case 266]	X	X			
[Test Case 267]	X	X			
[Test Case 268]	X	X			
[Test Case 269]	X	X			
[Test Case 270]	X	X			
[Test Case 271]	X	X			
[Test Case 272]	X	X			
[Test Case 273]	X	X			
[Test Case 274]	X	X			
[Test Case 275]	X	X			
[Test Case 276]	X	X			
[Test Case 277]	X	X			
[Test Case 278]	X	X			
[Test Case 279]	X	X			
[Test Case 280]	X	X			
[Test Case 281]	X	X			
[Test Case 282]	X	X			
[Test Case 283]	X	X			
[Test Case 284]	X	X			
[Test Case 285]	X	X			
[Test Case 286]	X	X			
[Test Case 287]	X	X			
[Test Case 288]	X	X			
[Test Case 289]	X	X			
[Test Case 290]	X	X			
[Test Case 291]	X	X			
[Test Case 292]			X	X	
[Test Case 293]			X	X	
[Test Case 294]			X	X	
[Test Case 295]			X	X	
[Test Case 296]			X	X	
[Test Case 297]			X	X	
[Test Case 298]			X	X	
[Test Case 299]			X	X	
[Test Case 300]			X	X	

**LSO Cantata/Sonata Test Requirements**

<b>Test Case</b>	<b>SDK RC 4</b>	<b>SDK RC 5</b>	<b>Aretha</b>	<b>Billie</b>	<b>Comments</b>
[Test Case 301]			X	X	
[Test Case 302]			X	X	
[Test Case 303]			X	X	
[Test Case 304]			X	X	
[Test Case 305]			X	X	
[Test Case 306]			X	X	
[Test Case 307]			X	X	
[Test Case 308]			X	X	
[Test Case 309]			X	X	
[Test Case 310]			X	X	
[Test Case 311]			X	X	
[Test Case 312]			X	X	
[Test Case 313]			X	X	
[Test Case 314]			X	X	
[Test Case 315]			X	X	
[Test Case 316]			X	X	
[Test Case 317]			X	X	
[Test Case 318]			X	X	
[Test Case 319]			X	X	
[Test Case 320]			X	X	
[Test Case 321]			X	X	
[Test Case 322]			X	X	
[Test Case 323]			X	X	
[Test Case 324]			X	X	
[Test Case 325]			X	X	
[Test Case 326]			X	X	
[Test Case 327]			X	X	
[Test Case 328]			X	X	
[Test Case 329]			X	X	
[Test Case 330]			X	X	
[Test Case 331]			X	X	
[Test Case 332]			X	X	
[Test Case 333]			X	X	
[Test Case 334]			X	X	
[Test Case 335]			X	X	
[Test Case 336]			X	X	
[Test Case 337]			X	X	
[Test Case 338]			X	X	
[Test Case 339]			X	X	
[Test Case 340]			X	X	
[Test Case 341]			X	X	
[Test Case 342]			X	X	
[Test Case 343]			X	X	
[Test Case 344]			X	X	



Test Case	SDK RC 4	SDK RC 5	Aretha	Billie	Comments
[Test Case 345]			X	X	
[Test Case 346]			X	X	
[Test Case 347]			X	X	
[Test Case 348]			X	X	
[Test Case 349]			X	X	
[Test Case 350]			X	X	
[Test Case 351]			X	X	
[Test Case 352]			X	X	
[Test Case 353]			X	X	
[Test Case 354]			X	X	
[Test Case 355]			X	X	
[Test Case 356]			X	X	
[Test Case 357]			X	X	
[Test Case 358]			X	X	
[Test Case 359]			X	X	
[Test Case 360]			X	X	
[Test Case 361]			X	X	
[Test Case 362]			X	X	
[Test Case 363]			X	X	
[Test Case 364]			X	X	
[Test Case 365]			X	X	
[Test Case 366]			X	X	
[Test Case 367]			X	X	
[Test Case 368]			X	X	
[Test Case 369]			X	X	
[Test Case 370]			X	X	
[Test Case 371]			X	X	
[Test Case 372]			X	X	
[Test Case 373]			X	X	

Table 418 – Test Cases to Release Matrix



## 37 References

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- [5] MEF 57.2 Draft Standard R2, *Product Order Management Requirements and Use Cases*, November 2020
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- [13] MEF 121, *Sonata API Developer Guide – Address*,