



**Mplify Standard**

**Mplify 136.1**

**Allegro, Interlude and Legato Service Function Testing  
Business Requirements & Use Cases**

**February 2026**

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99 **1 List of Contributing Members**

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

- 102
  - Amartus

103 **2 Abstract**

104 This document defines the Business Requirements and Use Cases to support Service Function  
105 Testing (SFT) at the Allegro, Interlude, and Legato Interface Reference Points. The requirements  
106 and use cases contained in this document support Service Function Testing for Service Activation  
107 and testing performed at other times during the lifecycle of the service. Service Activation/Service  
108 Readiness Testing is used prior to the service being handed off to the Customer. Other testing is  
109 performed on active services after they have been handed off to the Customer.

110

111 **3 Terminology and Abbreviations**

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

115 In addition, terms defined in MEF 55.1 [3] are included in this document by reference and are not  
 116 repeated in the table below.

117

Term	Definition	Reference
<b>Bundled</b>	Two or more Test Profiles are related together in a bundle and are given an order in which they are run.	This document
<b>Dependency</b>	The related Test Profile is dependent on the success or failure of another Test Profile. As an example if test 1 passes, then test 2 is performed. If test 1 fails, then test 2 is not performed.	This document
<b>Exclusivity</b>	The related Test Profile requires that it be paired with a second Test Profile.	This document
<b>Migration</b>	The related Test Profile is being migrated to replace the Test Profile.	This document
<b>Service Function Testing</b>	The verification of the operation or definition of the Service Under Test. Includes Service Activation and testing performed on in-service Services for maintenance purposes.	This document
<b>Service Identifier</b>	The unique identifier for a specific Service.	This document
<b>Service Specification</b>	The specification of a set of attributes that define a Service type. These are defined in MEF 100, MEF 101, and MEF 102.	This document
<b>Test Job</b>	A definition of SFT for a specific Service Identifier.	This document
<b>Test Profile</b>	Detailed specification that includes the Test Job attributes and Service Specifications that are specified to be tested by this Test Profile.	This document
<b>Substitution</b>	The related Test Profile is substituted for the Test Profile.	This document

118

**Table 1 – Terminology**

119

Abbreviation	Definition	Reference
<b>IRP</b>	Interface Reference Point	MEF 55.1 [3]
<b>SFT</b>	Service Function Testing	This document

120

**Table 2 – Abbreviations**

## 121 4 Compliance Levels

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

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

131

132 **5 Introduction**

133 This document defines the Business Requirements and Use Cases for Service Function Testing  
134 (SFT). Service Function Testing is defined as testing that is performed either as a part of service  
135 verification, service activation, or service maintenance. The requirements and Use Cases are the  
136 same for the Allegro Interface Reference Point (IRP), the Interlude IRP, and the Legato IRP. There  
137 are no differences identified within this document between them. The requirements and Use Cases  
138 within this document will be used to develop an API specification and Developer's Guide.  
139 Examples of Service Function Tests include continuity tests, bandwidth profile testing, and delay,  
140 variation, and loss testing.

141 The Use Cases that are addressed in this document are:

- 142 • Create, Modify, Delete Test Profile
- 143 • Retrieve Test Profile List
- 144 • Retrieve Test Profile by ID
- 145 • Create, Modify, Delete, Suspend, Resume, Cancel Test Job w/Test Profile
- 146 • Create, Modify, Delete, Suspend, Resume, Cancel Test Job w/o Test Profile
- 147 • Retrieve Test Job List
- 148 • Retrieve Test Job by ID
- 149 • Retrieve Test Result List
- 150 • Retrieve Test Result by Test Job ID
- 151 • Subscribe to Notifications
- 152 • Unsubscribe to Notifications
- 153 • Generate Notifications

154 Within this document the terms Buyer/Client are used to represent the requesting entity. The terms  
155 Seller/Server are used to represent the responding entity.

156 **6 Terminology Cross Reference**

157 This document uses terminology primarily from previous work in MEF. TMF653 [4] uses  
158 different terminology. To aid readers who are familiar with the previous work in either group,  
159 Table 3 provides a cross reference between the MEF and TMF terms for the same thing.

160

<b>TMF Term</b>	<b>MEF Term</b>
Service Test Specification	Test Profile
Service Test	Test Job
Test Measurement	Test Results

161 **Table 3 – Terminology Cross Reference**



162 **7 Use Cases**

163 The Use Cases addressed within this document are shown in Table 4. Each Use Case is further  
164 detailed along with requirements associated with this Use Case.

165

Use Case Number	Use Case Name	Use Case Description	Reference Section
1	Create Test Profile	The Buyer/Client creates a Test Profile that contains details of the measurement(s) to be performed.	Section 7.1.1
2	Modify Test Profile	The Buyer/Client modifies a Test Profile that contains details of the measurement(s) to be performed.	Section 7.1.2
3	Delete Test Profile	The Buyer/Client deletes a Test Profile that contains details of the measurement(s) to be performed.	Section 7.1.3
4	Retrieve Test Profile List	The Buyer/Client retrieves a list of Test Profiles that meet specified filter criteria.	Section 7.1.5
5	Retrieve Test Profile by Identifier	The Buyer/Client retrieves a specific Test Profile using the Test Profile Identifier.	Section 7.1.6
6	Create Test Job w/Test Profile	The Buyer/Client creates a Test Job that specifies the service to be tested and references a Test Profile.	Section 7.2.1



Use Case Number	Use Case Name	Use Case Description	Reference Section
7	Create Test Job w/o Test Profile	The Buyer/Client creates a Test Job that specifies the service to be tested and does not reference a Test Profile. Instead, attributes contained in the Test Profile are included in the Test Job.	Section 7.2.2
8	Retrieve Test Result List	The Buyer/Client retrieve a list of Test Results that meet a specified filter.	
9	Retrieve Test Result by Test Result ID	The Buyer/Client retrieves the Test Results for a specific Test Result ID.	
10	Suspend Test Job	The Buyer/Client suspends an In-Progress Test Job with or without a Test Profile.	Section 7.2.3
11	Resume Test Job	The Buyer/Client resumes a Suspended Test Job with or without a Test Profile.	Section 7.2.6
12	Cancel Test Job	The Buyer/Client cancels a Suspended, In-Progress, or Scheduled Test Job with or without a Test Profile.	Section 7.2.7
13	Modify Test Job w/Test Profile	The Buyer/Client modifies a Test Job that specifies the service to be tested and references a Test Profile.	Section 7.2.8
14	Modify Test Job w/o Test Profile	The Buyer/Client modifies a Test Job that specifies the service to be tested and does not reference a Test Profile. Instead, the attributes contained in the Test Profile are contained in the Test Job.	Section 7.2.9
15	Retrieve Test Job List	The Buyer/Client retrieves a list of Test Job that meet specified filter criteria.	Section 7.2.10
16	Retrieve Test Job by Identifier	The Buyer/Client retrieves a specific Test Job using the Test Job Identifier.	Section 7.2.11
17	Subscribe to Notifications	The Buyer/Client subscribes to SFT notifications.	Section 7.3.1

Use Case Number	Use Case Name	Use Case Description	Reference Section
18	Unsubscribe to Notifications	The Buyer/Client unsubscribes to SFT notifications.	Section 7.3.2
19	Send Notification	The Seller/Server generates SFT Notifications.	Section 7.3.3
20	Retrieve Suspend Test Job List	Retrieves a list of Suspend Test Job requests by filter criteria	7.2.12
21	Retrieve Suspend Test Job by Identifier	Retrieves all details of a specified Suspend Test Job request	7.2.13
22	Retrieve Resume Test Job List	Retrieves a list of Resume Test Job requests by filter criteria	7.2.14
23	Retrieve Resume Test Job by Identifier	Retrieves all details of a specified Resume Test Job request	7.2.15
24	Retrieve Cancel Test Job List	Retrieves a list of Cancel Test Job requests by filter criteria	7.2.16
25	Retrieve Cancel Test Job by Identifier	Retrieves all details of a specified Cancel Test Job request	7.2.17
26	Retrieve Modify Test Job List	Retrieves a list of Modify Test Job requests by filter criteria	7.2.18
27	Retrieve Modify Test Job by Identifier	Retrieves all details of a specified Modify Test Job request	7.2.19

166

**Table 4 – Use Case Overview**

167 Note: there may be roles that exist to limit what processes a user can create, modify, cancel, and  
 168 delete. As an example, there might be a role that allows the creation of Test Profiles and a role  
 169 that cannot create Test Profiles but can retrieve them. The assignment of these roles is outside the  
 170 scope of this document.

171 **7.1 Test Profile**

172 The Use Cases and associated requirements related to the Test Profile are defined in this section.

173 **7.1.1 Create Test Profile (Use Case 1)**

- 174 1. The Buyer/Client can request that the Seller/Server create a Test Profile.

175



Attribute Name	Description	Value	Comments
Test Profile Identifier	A unique, within the Seller/Server, identifier for the Test Profile.	String	Set by Seller
Description	Text description of the Test Profile.	String	Set by Buyer
Creation Date	Date the Test Profile is created.	Date/Time	Set by Seller
Is Bundled	Determines whether specification represents a single Test Profile (false), or a bundle of Test Profiles (true).	Boolean	Set by Buyer Always set to FALSE for atomic Test Profiles
Lifecycle Status	Used to indicate the current Lifecycle Status of this Test Profile.	One of: Experimental Pending Approved Deprecated	Set by Buyer
Test Profile Lifecycle State		ASSIGNED AVAILABLE	
Test Profile Assigned	Indicates if the Test Profile is assigned to a Test Job	Boolean	Set by Seller
Test Profile Name	The name of the Test Profile.	String	Set by Buyer
Valid For	The last date that the Test Profile is valid	Date/Time	Set by Buyer
Last Update	Last time the Test Profile was modified by the Buyer.	Date/Time	Set by Seller
Test Profile Relationship	A list of Related Test Profiles.	See Table 6	Set by Buyer
Service Specific Test Profile Configuration	Service specific attributes that define how a test is performed for a given Test Specification.	Under Study	Set by Buyer



Related Service Offering	Relationship Service Offering Identifier.	String	Set by Buyer
Related Contact Information	Parties who manage or have an interest in this Test Profile.	See Table 7	Set by Buyer

176

**Table 5 – Test Profile Attributes**

177 Note: Lifecycle Status is used by the Buyer/Client to define who can access the Test Profile. As  
 178 an example, a Test Profile with a Lifecycle Status of Experimental may only be able to be specified  
 179 in a Test Job by a specific set of Users. This could be limited by the role that the User is assigned.  
 180 All users who can create a Test Job may be able to assign Test Profiles with a Lifecycle Status of  
 181 Approved. A Test Profile with a Lifecycle Status of Pending may be limited to some subset of all  
 182 users.

183

Attribute Name	Description	Value	Comments
Related Service Specification Identifier	The Identifier of the related Service Specification that this Test Profile can be used to test.	String	Set by Buyer
Test Profile Relationship Identifier	The unique identifier for a related Test Profile.	String	Set by Buyer
Test Profile Relationship Name	The unique name for a related Test Profile.	String	Set by Buyer
Related Test Profile Role	The role for this relationship.	One of: Primary Secondary	Set by Buyer
Test Profile Relationship Order	The order which the related Test Jobs are run during a Test Job.	Numeric	Set by Buyer
Test Profile Relationship Valid For	The last date that the Test Profile is valid	Date/Time	Set by Buyer

184

**Table 6 – Test Profile Relationship Attributes**

185 Note: the Related Test Profile Role determines the specified Test Profile is the first in the order  
 186 of sequence or secondary in the order of sequence. The Test Profile Relationship Order specifies  
 187 the order in which different Test Profiles are used to perform Test Jobs.

188

Attribute	Description	Type
Contact Name	The person or organization to be contacted.	String
Contact Phone Number	The telephone number for this contact.	String
Contact Phone Number Extension	The telephone number extension for this contact.	String
Contact Email Address	The email address for this contact.	String
Contact Postal Address	The postal address of the contact.	Installation Place Fielded Address Representation
Contact Organization	The organization of the contact	String

189

Table 7 – Contact Attributes

190

## Create Test Profile



191

192

Figure 1 – High Level Create Test Profile Sequence Diagram

193

**[R1]** The Buyer/Client Create Test Profile request **MUST** include the following attributes and any test specific attributes:

194

195

- Test Profile Name

- 196                   • Valid For
- 197                   • Lifecycle Status
- 198           **[O1]**   The Buyer/Client’s Create Test Profile request **MAY** include any other  
199                   attributes shown as Set by Buyer/Client in Table 5.
- 200           2. The Seller/Server responds to the Buyer/Client’s request.
- 201           **[R2]**   If the request is successful, the Seller’s response to a Create Test Profile request  
202                   **MUST** echo back all Buyer/Client provided attributes.
- 203           **[R3]**   If the request is successful, the Seller’s response to a Create Test Profile request  
204                   **MUST** include the following attributes:
- 205                   • Test Profile Identifier
- 206                   • Creation Date
- 207                   • Last Modify Date
- 208                   • Test Profile State
- 209                   • Test Profile Assigned
- 210           **[R4]**   The Last Modify Date **MUST** be the same as the Creation Date.
- 211           **[R5]**   If the request is not successful, the Seller/Server **MUST NOT** echo back all  
212                   Buyer/Client provided attributes.
- 213           **[R6]**   If the request is not successful, the Seller/Server **MUST NOT** return a Test  
214                   Profile Identifier, Creation Date, Profile State, Test Profile Assigned, or Last  
215                   Modify Date.
- 216           **[R7]**   If the Seller/Server encounters errors, they **MUST** return an error with  
217                   explanation to the Buyer/Client.

218   **7.1.2 Modify Test Profile (Use Case 2)**

- 219           1. The Buyer/Client can request modifications to an existing Test Profile.
- 220           **[R8]**   The Buyer’s Modify Test Profile request **MUST** include the following  
221                   attributes:
- 222                   • Test Profile Identifier
- 223                   • At least one other attribute from shown as Set by Buyer/Client in Table 5.



224 [O2] The Buyer's Modify Test Profile request **MAY** include any other attributes  
225 shown as Set by Buyer/Client in Table 5.

226 2. The Seller/Server responds to the Buyer's request in a synchronous manner.

227 [R9] The Seller's response to a Modify Test Profile request **MUST** return all Test  
228 Profile attributes.

229 [R10] The Last Modify Date **MUST** be set to the current date and time by the Seller.

230 [R11] If the Seller/Server encounters errors, they **MUST** return an error with  
231 explanation to the Buyer/Client.

232 Note: A Test Profile where Test Profile Assigned = TRUE cannot be modified. A Test Profile  
233 that is dependent on another Test Profile cannot be modified.

### 234 7.1.3 Delete Test Profile (Use Case 3)

235 1. The Buyer/Client can delete a Test Profile.

236 [R12] The Buyer's Delete Test Profile request **MUST** contain the Test Profile  
237 Identifier.

238 [R13] The Buyer's Delete Test Profile request **MUST NOT** contain any other  
239 attributes.

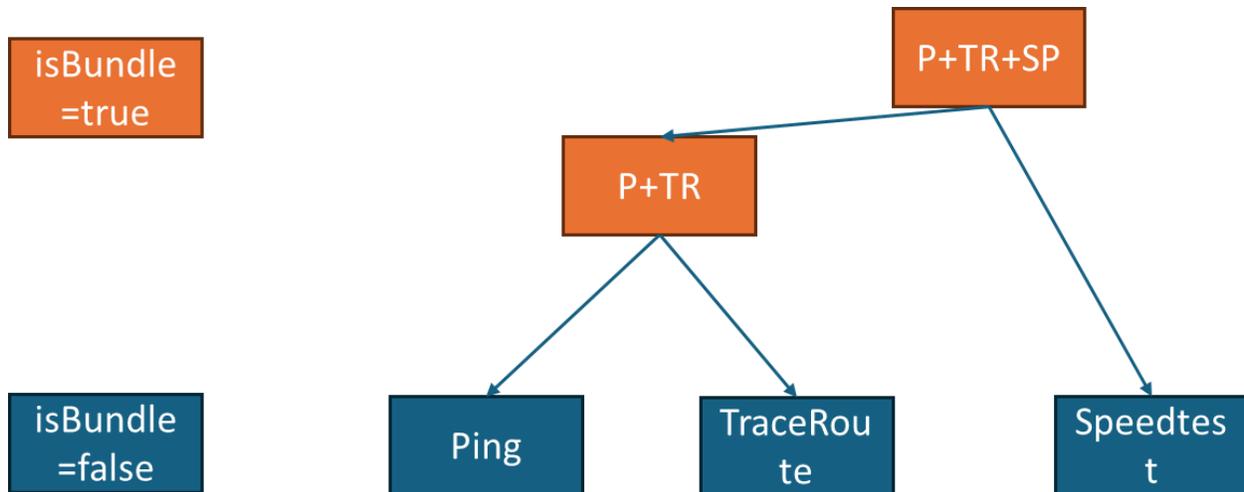
240 Note: A Test Profile where Test Profile Assigned = TRUE cannot be deleted. A Test Profile that  
241 is dependent on another Test Profile cannot be deleted.

242 2. The Seller/Server responds to the Buyer's request.

243 [R14] If the Seller/Server encounters errors, they **MUST** return an error with  
244 explanation to the Buyer/Client.

### 245 7.1.4 Test Profile Dependency

246 Making a Test Profile dependent on another Test Profile or Bundled Test Profile allows the  
247 Buyer/Client to configure one Test Profile to need to complete successfully before another Test  
248 Profile or Bundled Test Profile is started. If the previous Test Profile does not complete  
249 successfully, the next Test Profile is not started. If Bundled Test Profiles are used, a Bundled Test  
250 Profile can be configured to need to complete successfully before another Bundled Test Profile or  
251 Test Profile can be started.



252

253

**Figure 2 – Test Profile Dependency**

254 Figure 2 shows the atomic Test Profiles in blue. Each of these is created as a separate Test Profile.  
 255 Bundles, shown in orange, are created. The first bundles the Ping and Traceroute Test Profiles.  
 256 The second bundle adds the Speedtest to that bundle to create a new bundle.

257 1. The Buyer/Client can create a dependency between two or more Test Profiles/Bundled  
 258 Test Profiles.

259 **[R15]** The Buyer’s Modify Test Profile/Bundled Test Profile **MUST** include the  
 260 following:

- 261 • Test Profile Relationship Identifier or Bundled Test Profile Relationship  
 262 Identifier

263 **[O3]** If the Test Profile Relationship is changing, the Buyer’s Modify Test  
 264 Profile/Bundled Test Profile **MAY** include at least one of the following as  
 265 applicable to the changes:

- 266 • Test Profile Relationship with the following settings
  - 267 • Related Service Specification Identifier
  - 268 • Test Profile Relationship Identifier
  - 269 • Test Profile Relationship Name
  - 270 • Test Profile Relationship Type
  - 271 • Test Profile Relationship Role
  - 272 • Test Profile Relationship Order
  - 273 • Test Profile Relationship Valid For

274 **7.1.5 Retrieve Test Profile List (Use Case 4)**

275 1. The Buyer/Client can retrieve a list of Test Profiles.

276 **[O4]** The Buyer's Retrieve Test Profile List request **MAY** contain none or more of  
277 the following attributes:

- 278 • Creation Date (<, >)
- 279 • Last Update (<, >)
- 280 • Related Service Specification Identifier

281 2. The Seller/Server responds to the Buyer's request.

282 **[R16]** If the request is successful, the Seller/Server **MUST** reply with all attributes in  
283 Table 5 to the Buyer/Client.

284 **[R17]** If the request is successful but the Seller/Server finds no entries that match the  
285 filter criteria, they **MUST** return an empty list.

286 **[R18]** If the request is unsuccessful, the Seller/Server **MUST NOT** echo back the  
287 criteria provided by the Buyer/Client.

288 **[R19]** If the request is unsuccessful, the Seller/Server **MUST** return an error with  
289 explanation to the Buyer/Client.

290 **7.1.6 Retrieve Test Profile by Identifier (Use Case 5)**

291 1. The Buyer/Client can retrieve a Test Profile by Test Profile Identifier.

292 **[R20]** The Buyer's Retrieve Test Profile by Test Profile Identifier **MUST** include the  
293 Test Profile Identifier.

294 **[R21]** The Buyer's Retrieve Test Profile by Test Profile identifier request **MUST**  
295 **NOT** include other attributes.

296 2. The Seller/Server responds to the Buyer's request.

297 **[R22]** If the request is successful, the Seller's response to a Retrieve Test Profile by  
298 Test Profile Identifier request **MUST** include all attributes as defined in Table  
299 5.

300 **[R23]** If the request is unsuccessful, the Seller/Server **MUST** return an error with  
301 explanation to the Buyer/Client.



302 **7.2 Test Job**

303 The Use Cases and associated requirements related to the Test Job are defined in this section.

304 **7.2.1 Create Test Job w/Test Profile (Use Case 6)**

305 1. The Buyer/Client is able to request that the Seller/Server create a Test Job.

306 **[R24]** The Buyer’s Create Test Job request **MUST** provide the following attributes:

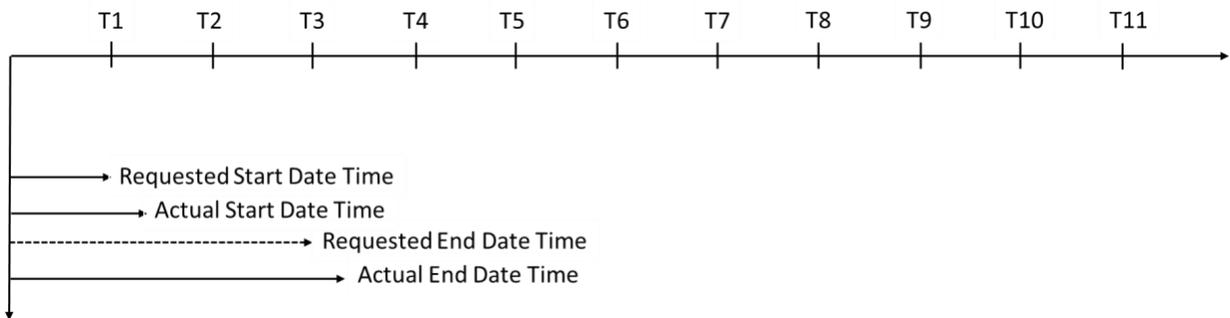
- 307 • Test Job Name
- 308 • Requested Start Date Time
- 309 • Test Profile Identifier
- 310 • Service ID From
- 311 • Service ID To
- 312 • Service Specific Test Job Configuration

Attribute Name	Description	Value	Comments
Test Job Identifier	The identifier of the Test Job.	String	Set by Seller
Test Job Name	The name of the Test Job.	String	Set by Buyer
Test Job Description	A description of the Test Job.	String	Set by Buyer
Requested Start Date Time	The start date and time of the Test Job.	Date/Time	Set by Buyer  If the Buyer desires to schedule a test, this is a future date/time.
Actual Start Date Time	The actual time that a Test Job started.	Date/Time	Set by Seller/Server
Requested End Date Time	The end date and time of the Test Job.	Date/Time	Set by Buyer
Actual End Date Time	The Actual end date and time of the Test Job.	Date/Time	Set by Seller/Server

Attribute Name	Description	Value	Comments
Test Profile Identifier	The identifier of the Test Profile.	String	Set by Buyer
Service ID From	The attributes for a related service From side	See Table 9	
Service ID To	The attributes for a related service To side	See Table 9	
Service Specific Test Job Configuration	The schema to be used that defines the specific Test Measure attributes.	String	Set by Buyer

313

**Table 8 – Test Job Attributes**



314

315

**Figure 3 – SFT Times**

316

Attribute Name	Description	Value	Comments
Related Service Identifier	The Service Identifier for the service to be tested.	String	Set by Buyer
Related Service Name	The name of the service to be tested.	String	Set by Buyer

317

**Table 9 – Related Service Test Job Attributes**

- 318        2. The Seller responds to the Buyer’s request.
- 319            **[R25]**    If the request is successful, the Seller’s response to a Create Test Job request
- 320                    **MUST** echo back all Buyer/Client provided attributes.
- 321            **[R26]**    If the request is successful, the Seller **MUST** return the following attributes:
- 322                    • Test Job Identifier
- 323                    • Test Job State
- 324            **[R27]**    If the request is not successful, the Seller/Server **MUST NOT** echo back all
- 325                    Buyer/Client provided attributes.
- 326            **[R28]**    If the request is not successful, the Seller/Server **MUST NOT** return a Test Job
- 327                    Identifier or Test Job State.
- 328            **[R29]**    If the Seller/Server encounters errors, they **MUST** return an error with
- 329                    explanation to the Buyer/Client

330    **7.2.2 Create Test Job w/o Test Profile (Use Case 7)**

- 331        1. The Buyer/Client is able to request that the Seller/Server create a Test Job without
- 332                    referencing a Test Profile.
- 333            **[R30]**    The Buyer’s Create Test Job request **MUST** contain the following attributes:
- 334                    • Test Job Name
- 335                    • Requested Start Date Time
- 336                    • Service ID From
- 337                    • Service ID To
- 338                    • Test Specific Attributes
- 339                    • Service Specific Test Profile Attributes (Test Profile related) see Table 5
- 340                    • Related Service Specification (Test Profile related) see Table 6
- 341                    • Related Contact Information (Test Profile related) see Table 7

342

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Job Identifier	The identifier of the Test Job.	String	Set by Seller



Attribute Name	Description	Value	Comments
Test Job Name	The name of the Test Job.	String	Set by Buyer
Test Job Description	A description of the Test Job.	String	Set by Buyer
Requested Start Date Time	The start date and time of the Test Job.	Date/Time	Set by Buyer  If the Buyer desires to schedule a test, this is a future date/time. If the Buyer desires an immediate test, this is empty.
Actual Start Date Time	The actual time that a Test Job started.	Date/Time	Set by Seller/Server
Requested End Date Time	The end date and time of the Test Job.	Date/Time	Set by Buyer
Actual End Date Time	The Actual end date and time of the Test Job.	Date/Time	Set by Seller/Server
Service ID From	The attributes for a related service From side	See Table 11	
Service ID To	The attributes for a related service To side	See Table 11	
Test Job State	The state of the Test Job	One of: ACKNOWLEDGED ASSESSING_MODIFICATION CANCELLED COMPLETED IN_PROGRESS REJECTED SCHEDULED SUSPEND	Set by Seller
Service Specific Test Job Configuration	The schema to be used that defines the	String	Set by Buyer

Attribute Name	Description	Value	Comments
	Test Measure attributes.		

343 **Table 10 – Seller Test Job Attributes**

344

Attribute Name	Description	Value	Comments
Related Service Identifier	The Service Identifier for the service to be tested.	String	Set by Buyer
Related Service Name	The name of the service to be tested.	String	Set by Buyer

345 **Table 11 – Seller Related Service Test Job Attributes**

346 2. The Seller responds to the Buyer’s request.

347 **[R31]** If the request is successful, the Seller’s response to a Create Test Job request  
 348 **MUST** echo back all Buyer/Client provided attributes.

349 **[R32]** If the request is successful, the Seller **MUST** return the following attributes:

- 350 • Test Job Identifier
- 351 • Test Job State

352 **[R33]** If the request is not successful, the Seller/Server **MUST NOT** echo back all  
 353 Buyer/Client provided attributes.

354 **[R34]** If the request is not successful, the Seller/Server **MUST NOT** return a Test Job  
 355 Identifier or Test Job State.

356 **[R35]** If the Seller/Server encounters errors, they **MUST** return an error with  
 357 explanation to the Buyer/Client

358 **7.2.3 Retrieve Test Result List (Use Case 8)**

359 The Buyer/Client retrieve a list of Test Results that meet a specified filter.

360 1. The Buyer submits a Retrieve Test Result List request.

361 **[O5]** The Buyer’s Retrieve Test Result List request **MAY** contain none or more of  
 362 the following attributes:

- 363 • Test Job Identifier

- 364                   • Requested Start Date Time
- 365                   • Requested End Date Time
- 366                   • Service ID From
- 367                   • Service ID To
- 368                   • Related Service Specification Identifier (Test Profile related) see Table 6
- 369                   • Related Contact Information Name (Test Profile related) see Table 7

370

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Job Identifier	The identifier of the Test Job.	String	Set by Buyer
Requested Start Date Time	The start date and time of the Test Result for a given Test Job.	Date/Time	Set by Buyer
Requested End Date Time	The end date and time of the Test Result for a given Test Job.	Date/Time	Set by Buyer
Service ID From	The From identifier for a related service	See Table 11	
Service ID To	The To identifier for a related service	See Table 11	
Related Service Specification Identifier	The identifier of the related service specification	String	Set by Buyer
Related Contact Information Name	The contact for a Test Job	String	Set by Buyer

371                   **Table 12 – Retrieve Test Result List Attributes**

372    If the test only has a single end point, the Service ID From is used to reflect the end point.

- 373                   2. The Seller/Server responds to the Buyer/Client’s request with a success message
- 374                   and a list of Test Result Identifiers for Test Jobs that match the filter criteria.

375

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Result Identifier	The identifier of the Test Results.	String	Set by Buyer

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Job Identifier	The identifier of the Test Job	String	Set by Buyer
Actual Start Date Time	The actual start date and time of the Test Result for a given Test Job.	Date/Time	Set by Buyer
Actual End Date Time	The actual end date and time of the Test Result for a given Test Job.	Date/Time	Set by Buyer
Related Service	The attributes for a related service	See Table 11	

376 **Table 13 – Retrieve Test Result List Response Attributes**

377 **[R36]** If the request is successful, the Seller/Server **MUST** provide a list of Test  
378 Results that match the filter criteria as shown in Table 13.

379 **[R37]** If the request is not successful, the Seller/Server **MUST NOT** provide a list of  
380 Test Results.

381 **7.2.4 Retrieve Test Result by Test Result Identifier (Use Case 9)**

382 The Buyer/Client retrieves the Test Results for a specific Test Result for a given Test Job.

- 383 1. The Buyer/Client initiates a Retrieve Test Results by Test Result Identifier request.

384

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Result Identifier	The identifier of the Test Result.	String	Set by Buyer

385 **Table 14 – Retrieve Test Result by Test Result Identifier Request Attributes**

386 **[R38]** The Buyer/Client Retrieve Test Results by Test Result Identifier request  
387 **MUST** contain the attributes shown in Table 14.

- 388 2. The Seller/Server responds to the Buyer/Client’s request with a success message/code and  
389 returns the Test Results for a given Test Job.

390

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Result Identifier	The identifier of the Test Result	String	Set by Seller



Attribute Name	Description	Value	Comments
Test Job Identifier	The identifier of the Test Job.	String	Set by Buyer
Actual Start Date Time	The actual time that a Test Job started.	Date/Time	Set by Seller/Server
Actual End Date Time	The Actual end date and time of the Test Job.	Date/Time	Set by Seller/Server
Service ID From	The attributes for a related service From side	See Table 11	
Service ID To	The attributes for a related service To side	See Table 11	
Service Specific Test Job Report	The schema to be used that defines the Test Result attributes.	String	Set by Seller

391 **Table 15 – Retrieve Test Result by Test Result Identifier Response Attributes**

392 [R39] If the response is successful, the Seller/Server response **MUST** include all the  
 393 attributes shown in Table 15.

394 [R40] If the response is not successful, the Seller/Server **MUST NOT** include any of  
 395 the attributes shown in Table 15 in their response.

396 **7.2.5 Suspend Test Job (Use Case 10)**

397 1. The Buyer/Client submits a Suspend Test Job request to suspend an existing Test  
 398 Job.

399 [R41] The Buyer/Client’s Suspend Test Job request **MUST** include the Test Job  
 400 Identifier.

401 [R42] The Test Job **MUST** be in the IN\_PROGRESS state.

402 Note: Test Jobs in the SCHEDULED state cannot be suspended.

403 2. The Seller/Server responds to the Buyer/Client’s request with a success message/code  
 404 and changes the state of the Test Job to SUSPENDED.

405

Attribute Name	Description	Value	Comments
Suspend Test Job Identifier	The identifier of the Suspend Test Job	String	Set by Seller

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Test Job Identifier	The identifier of the Test Job.	String	Set by Seller
Suspend Test Job State	The state of the Test Job	One of: ACCEPTED ACKNOWLEDGED DECLINED REJECTED	

**Table 16 – Seller Suspend Test Job Attributes**

- 406
- 407       **[R43]**    If the request is successful, the Seller/Server **MUST** return a response that  
408                    includes the attributes shown in Table 16.
- 409       **[R44]**    If the request is successful, the Seller/Server **MUST** suspend all testing and  
410                    measurements being performed on the Test Job and place the Test Job in the  
411                    SUSPENDED state when they receive a Suspend Test Job request from the  
412                    Buyer/Client.
- 413       **[R45]**    While in the SUSPENDED state, the Test Job **MUST NOT** perform any testing  
414                    or measurements.
- 415       **[R46]**    If the request is not successful, the Seller/Server **MUST NOT** suspend the Test  
416                    Job.
- 417       **[R47]**    If the Seller/Server encounters errors, they **MUST** return an error with  
418                    explanation to the Buyer/Client

419        3. The Test Job tests and measurements are suspended.

420        **7.2.6 Resume Test Job (Use Case 11)**

- 421        1. The Buyer/Client submits a Resume Test Job request to resume an existing Test Job.
- 422                    **[R48]**    The Buyer/Client’s Resume Test Job request **MUST** include the Test Job  
423                    Identifier.
- 424                    **[R49]**    The Test Job **MUST** be in the SUSPENDED state.
- 425        2. The Seller/Server responds to the Buyer/Client’s request with a success message/code  
426                    and changes the state of the Test Job to IN\_PROGRESS.

427

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Resume Test Job Identifier	The identifier of the Resume Test Job	String	Set by Seller



Attribute Name	Description	Value	Comments
Test Job Identifier	The identifier of the Test Job.	String	Set by Seller
Resume Test Job State	The state of the Test Job	One of: ACCEPTED ACKNOWLEDGED DECLINED REJECTED	

428 **Table 17 – Seller Resume Test Job Attributes**

429 Note: If the Valid Until Date/Time has expired while the Test Job is in the SUSPENDED state,  
430 the Test Job should be allowed to resume. It can then be cancelled by the Buyer/Client if desired.

431 **[R50]** If the request is successful, the Seller/Server **MUST** return a response that  
432 includes the attributes shown in Table 17.

433 **[R51]** If the request is successful, the Seller/Server **MUST** resume all testing and  
434 measurements being performed on the Test Job and place the Test Job in the  
435 IN\_PROGRESS state when they receive a Resume Test Job request from the  
436 Buyer/Client.

437 **[R52]** If the request is not successful, the Seller/Server **MUST NOT** resume the Test  
438 Job, and the Test Job remains in the SUSPENDED state.

439 **[R53]** If the Seller/Server encounters errors, they **MUST** return an error with  
440 explanation to the Buyer/Client

441 3. The Test Job tests and measurements are resumed.

442 **7.2.7 Cancel Test Job (Use Case 12)**

443 1. The Buyer/Client is able to request cancellation of an existing Test Job.

444 **[R54]** The Buyer’s/Client’s Cancel Test Job request **MUST** include the Test Job  
445 Identifier.

446 **[R55]** The Test Job **MUST** be in the SUSPENDED, IN\_PROGRESS, or  
447 SCHEDULED state for a Buyer/Client to cancel it.

448 2. The Seller/Server responds to the Buyer’s request.

449

Attribute Name	Description	Value	Comments
Cancel Test Job Identifier	The identifier of the Resume Test Job	String	Set by Seller



Attribute Name	Description	Value	Comments
Test Job Identifier	The identifier of the Test Job.	String	Set by Seller
Cancel Test Job State	The state of the Cancel Test Job	One of: ACCEPTED ACKNOWLEDGED DECLINED REJECTED	

**Table 18 – Seller Cancel Test Job Attributes**

- 450
- 451           **[R56]**    If the request is successful, the Seller/Server **MUST** return a response that  
452 includes the attributes shown in Table 18.
- 453           **[R57]**    The Seller’s response to a Cancel Test Job request **MUST** echo back  
454 Buyer/Client provided attributes.
- 455           **[R58]**    The Seller’s response to a Cancel Test Job request **MUST** include the attributes  
456 in Table 8.
- 457           **[R59]**    If the request is successful, the Seller/Server **MUST** cancel all testing and  
458 measurement being performed on the Test Job and place the Test Job in the  
459 CANCELLED state.
- 460           **[R60]**    If the request is not successful, the Seller/Server **MUST NOT** cancel the Test  
461 Job, and the Test Job remains in its previous state (SUSPENDED,  
462 IN\_PROGRESS, or SCHEDULED).
- 463           **[R61]**    If the Seller/Server encounters errors, they **MUST** return an error with  
464 explanation to the Buyer/Client

465           3. The Seller/Server modifies the Test Job as requested.

466   **7.2.8 Modify Test Job (Use Case 13)**

467           1. The Buyer/Client is able to request modifications to an existing Test Job.

468           **[R62]**    The Buyer’s Modify Test Job request **MUST** include the Test Job Identifier.

469           **[R63]**    The Buyer’s Modify Test Job request **MUST** contain at least one of the  
470 following attributes:

- 471           • Test Job Description
- 472           • Requested End Date/Time
- 473           • Test Job Name



- 474 • Requested Start Date/Time
- 475 • Service ID From
- 476 • Service ID To
- 477 • Test Profile Identifier
- 478 • Test Attribute Schema

479 **[R64]** The Test Job **MUST** be in the SUSPENDED or SCHEDULED state for a  
 480 Buyer/Client to modify it.

481 The Modify Test Job can be used to change the Test Profile Identifier in the event that a Test Job  
 482 needs to perform an additional test. The Modify Test Job process cannot be used to change a Test  
 483 Job created without a Test Profile to a Test Job with a Test Profile.

484 2. The Seller/Server responds to the Buyer’s request.

485

Attribute Name	Description	Value	Comments
Modify Test Job Identifier	The identifier of the Modify Test Job.	String	Set by Seller
Test Job Identifier	The identifier of the Test Job.	String	Set by Buyer
Test Job Name	The name of the Test Job.	String	Set by Buyer
Test Job Description	A description of the Test Job.	String	Set by Buyer
Requested Start Date Time	The start date and time of the Test Job.	Date/Time	Set by Buyer  If the Buyer desires to schedule a test, this is a future date/time. If the Buyer desires an immediate test, this is empty.
Actual Start Date Time	The actual time that a Test Job started.	Date/Time	Set by Seller/Server

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Requested End Date Time	The end date and time of the Test Job.	Date/Time	Set by Buyer
Actual End Date Time	The Actual end date and time of the Test Job.	Date/Time	Set by Seller/Server
Test Profile Identifier	The identifier of the Test Profile.	String	Set by Buyer
Service ID From	The attributes for a related service From side	See Table 9	
Service ID To	The attributes for a related service To side	See Table 9	
Test Specific Configuration	The schema to be used that defines the specific Test Measure attributes.	String	Set by Buyer
Modify Test Job State	The state of the Modify Test Job	One of: ACCEPTED ACKNOWLEDGED DECLINED REJECTED	

486

**Table 19 – Modify Test Job Attributes**

487  
488

**[R65]** If the request is successful, the Seller/Server **MUST** return a response that includes the attributes shown in Table 19.

489  
490

**[R66]** If the request is not successful, the Seller/Server **MUST NOT** echo back all Buyer/Client provided attributes.

491  
492

**[R67]** If the Seller/Server encounters errors, they **MUST** return an error with explanation to the Buyer/Client.

493

3. The Seller/Server modifies the Test Job as requested.



494 7.2.9 Modify Test Job w/o Test Specification (Use Case 14)

495 1. The Buyer/Client is able to request modifications to an existing Test Job.

496 [R68] The Buyer’s Modify Test Job request **MUST** include the Test Job Identifier.

497 [R69] The Buyer’s Modify Test Job request **MUST** contain at least one of the  
498 following attributes:

- 499 • Test Job Name
- 500 • Requested Start Date Time
- 501 • Requested End Date Time
- 502 • Service ID From
- 503 • Service ID To
- 504 • Test Attribute Schema
- 505 • Service Specific Test Profile Attributes (Test Profile related) see Table 5
- 506 • Related Service Specification (Test Profile related) see Table 6
- 507 • Related Contact Information (Test Profile related) see Table 7

508 [R70] The Test Job **MUST** be in the SUSPENDED or SCHEDULED state for a  
509 Buyer/Client to modify it.

510 2. The Seller/Server responds to the Buyer’s request.

511

Attribute Name	Description	Value	Comments
Modify Test Job Identifier	The identifier of the Test Job.	String	Set by Seller
Test Job Identifier	The identifier of the Test Job.	String	Set by Buyer
Test Job Name	The name of the Test Job.	String	Set by Buyer

<b>Attribute Name</b>	<b>Description</b>	<b>Value</b>	<b>Comments</b>
Requested Start Date Time	The start date and time of the Test Job.	Date/Time	Set by Buyer  If the Buyer desires to schedule a test, this is a future date/time. If the Buyer desires an immediate test, this is empty.
Actual Start Date Time	The actual time that a Test Job started.	Date/Time	Set by Seller/Server
Requested End Date Time	The end date and time of the Test Job.	Date/Time	Set by Buyer
Actual End Date Time	The Actual end date and time of the Test Job.	Date/Time	Set by Seller/Server
Service ID From	The attributes for a related service From side	See Table 11	
Service ID To	The attributes for a related service To side	See Table 11	
Modify Test Job State	The state of the Modify Test Job	One of: ACCEPTED ACKNOWLEDGED DECLINED REJECTED	
Test Specific Configuration	The schema to be used that defines the Test Measure attributes.	String	Set by Buyer

**Table 20 – Modify Test Job W/O Test Profile Attributes**

- 512
- 513           **[R71]**   The Seller’s response to a Modify Test Job request **MUST** echo back  
514           Buyer/Client provided attributes.
- 515           **[R72]**   The Seller’s response to a Modify Test Job request **MUST** include the  
516           attributes in Table 20.
- 517           **[R73]**   If the request is not successful, the Seller/Server **MUST NOT** echo back all  
518           Buyer/Client provided attributes.

519 [R74] If the request is not successful, the Seller/Server **MUST NOT** return a Test Job  
520 Identifier or Test Job State.

521 [R75] If the Seller/Server encounters errors, they **MUST** return an error with  
522 explanation to the Buyer/Client.

523 3. The Seller/Server modifies the Test Job as requested.

524 Note: A Modify Test Job request cannot be used to modify the Test Profile of a test that is  
525 SUSPENDED or SCHEDULED. To accomplish this, the Test Job must be deleted, and a new  
526 Test Job created.

#### 527 7.2.10 Retrieve Test Job List (Use Case 15)

528 1. The Buyer/Client submits a Retrieve Test Job List request using none or more of  
529 the filter criteria.

530 [R76] The Buyer/Client's Retrieve Test Job List request **MUST** contain none or more  
531 of the following filter criteria:

- 532 • Service ID From
- 533 • Service ID To
- 534 • Requested Start Date Time (<, >)
- 535 • Requested End Date Time (<, >)
- 536 • Test Profile Identifier
- 537 • Test Job Name

538 2. The Seller/Server returns a response to the Buyer.

539 [R77] If successful, the Seller/Server **MUST** return a list of Test Job Identifiers that  
540 match the selected filter criteria along with all filter criteria attributes.

541 [R78] If successful but no matches to the filter criteria are found, the Seller/Server  
542 **MUST** return an empty list.

543 [R79] If unsuccessful, the Seller/Server **MUST NOT** return a list of Test Job  
544 Identifiers or an empty list.

545 [R80] If unsuccessful, the Seller/Server **MUST** return an indication of the errors.

546 3. The Buyer has a list of the Test Job Identifiers that match the filter criteria.



547 **7.2.11 Retrieve Test Job by Identifier (Use Case 16)**

548 1. The Buyer/Client submits a Retrieve Test Job by Identifier request that includes the  
549 Test Job Identifier.

550 **[R81]** The Buyer/Client's Retrieve Test Job by Identifier request **MUST** include the  
551 Test Job Identifier and only the Test Job Identifier.

552 2. The Seller/Server responds to the Retrieve Test Job by Identifier request.

553 **[R82]** If successful, the Seller/Server **MUST** include all attributes shown in Table 8  
554 in their response.

555 **[R83]** If unsuccessful, the Seller/Server **MUST NOT** return any attributes in their  
556 response.

557 **[R84]** If unsuccessful, the Seller/Server **MUST** return an indication of the errors  
558 encountered.

559 3. The Buyer/Client has all details of a Test Job.

560 **7.2.12 Retrieve Suspend Test Job List (Use Case 20)**

561 1. The Buyer/Client submits a Retrieve Suspend Test Job List request using none or  
562 more of the filter criteria.

563 **[R85]** The Buyer/Client's Retrieve Suspend Test Job List request **MUST** contain  
564 none or more of the following filter criteria:

- 565 • Requested Start Date Time (<, >)
- 566 • Requested End Date Time (<, >)
- 567 • Test Job Identifier

568 2. The Seller/Server returns a response to the Buyer.

569 **[R86]** If successful, the Seller/Server **MUST** return a list of Suspend Test Job  
570 Identifiers that match the selected filter criteria along with all filter criteria  
571 attributes..

572 **[R87]** If successful but no matches to the filter criteria are found, the Seller/Server  
573 **MUST** return an empty list.

574 **[R88]** If unsuccessful, the Seller/Server **MUST NOT** return a list of Suspend Test Job  
575 Identifiers or an empty list.

576 **[R89]** If unsuccessful, the Seller/Server **MUST** return an indication of the errors.



577 3. The Buyer has a list of the Suspend Test Job Identifiers that match the filter  
578 criteria.

579 **7.2.13 Retrieve Suspend Test Job by Identifier (Use Case 21)**

580 1. The Buyer/Client submits a Retrieve Suspend Test Job by Identifier request that  
581 includes the Suspend Test Job Identifier.

582 **[R90]** The Buyer/Client's Retrieve Suspend Test Job by Identifier request **MUST**  
583 include the Suspend Test Job Identifier and only the Suspend Test Job  
584 Identifier.

585 2. The Seller/Server responds to the Retrieve Suspend Test Job by Identifier request.

586 **[R91]** If successful, the Seller/Server **MUST** include all attributes shown in Table 16  
587 in their response.

588 **[R92]** If unsuccessful, the Seller/Server **MUST NOT** return any attributes in their  
589 response.

590 **[R93]** If unsuccessful, the Seller/Server **MUST** return an indication of the errors  
591 encountered.

592 3. The Buyer/Client has all details of a Suspend Test Job.

593 **7.2.14 Retrieve Resume Test Job List (Use Case 22)**

594 1. The Buyer/Client submits a Retrieve Suspend Test Job List request using none or  
595 more of the filter criteria.

596 **[R94]** The Buyer/Client's Retrieve Resume Test Job List request **MUST** contain none  
597 or more of the following filter criteria:

598 • Requested Start Date Time (<, >)

599 • Requested End Date Time (<, >)

600 • Test Job Identifier

601 2. The Seller/Server returns a response to the Buyer.

602 **[R95]** If successful, the Seller/Server **MUST** return a list of Resume Test Job  
603 Identifiers that match the selected filter criteria along with all filter criteria  
604 attributes.

605 **[R96]** If successful but no matches to the filter criteria are found, the Seller/Server  
606 **MUST** return an empty list.

607 [R97] If unsuccessful, the Seller/Server **MUST NOT** return a list of Resume Test Job  
608 Identifiers or an empty list.

609 [R98] If unsuccessful, the Seller/Server **MUST** return an indication of the errors.

610 3. The Buyer has a list of the Resume Test Job Identifiers that match the filter criteria.

### 611 7.2.15 Retrieve Resume Test Job by Identifier (Use Case 23)

612 1. The Buyer/Client submits a Retrieve Resume Test Job by Identifier request that  
613 includes the Resume Test Job Identifier.

614 [R99] The Buyer/Client's Retrieve Resume Test Job by Identifier request **MUST**  
615 include the Resume Test Job Identifier and only the Resume Test Job Identifier.

616 2. The Seller/Server responds to the Retrieve Resume Test Job by Identifier request.

617 [R100] If successful, the Seller/Server **MUST** include all attributes shown in Table 17  
618 in their response.

619 [R101] If unsuccessful, the Seller/Server **MUST NOT** return any attributes in their  
620 response.

621 [R102] If unsuccessful, the Seller/Server **MUST** return an indication of the errors  
622 encountered.

623 3. The Buyer/Client has all details of a Resume Test Job.

### 624 7.2.16 Retrieve Cancel Test Job List (Use Case 24)

625 1. The Buyer/Client submits a Retrieve Cancel Test Job List request using none or  
626 more of the filter criteria.

627 [R103] The Buyer/Client's Retrieve Cancel Test Job List request **MUST** contain none  
628 or more of the following filter criteria:

629 • Requested Start Date Time (<, >)

630 • Requested End Date Time (<, >)

631 • Test Job Identifier

632 2. The Seller/Server returns a response to the Buyer.

633 [R104] If successful, the Seller/Server **MUST** return a list of Cancel Test Job  
634 Identifiers that match the selected filter criteria along with all filter criteria  
635 attributes.

636 [R105] If successful but no matches to the filter criteria are found, the Seller/Server  
637 **MUST** return an empty list.

638 [R106] If unsuccessful, the Seller/Server **MUST NOT** return a list of Cancel Test Job  
639 Identifiers or an empty list.

640 [R107] If unsuccessful, the Seller/Server **MUST** return an indication of the errors.

641 3. The Buyer has a list of the Cancel Test Job Identifiers that match the filter criteria.

#### 642 **7.2.17 Retrieve Cancel Test Job by Identifier (Use Case 25)**

643 1. The Buyer/Client submits a Retrieve Cancel Test Job by Identifier request that  
644 includes the Cancel Test Job Identifier.

645 [R108] The Buyer/Client's Retrieve Cancel Test Job by Identifier request **MUST**  
646 include the Cancel Test Job Identifier and only the Cancel Test Job Identifier.

647 2. The Seller/Server responds to the Retrieve Cancel Test Job by Identifier request.

648 [R109] If successful, the Seller/Server **MUST** include all attributes shown in Table 18  
649 in their response.

650 [R110] If unsuccessful, the Seller/Server **MUST NOT** return any attributes in their  
651 response.

652 [R111] If unsuccessful, the Seller/Server **MUST** return an indication of the errors  
653 encountered.

654 3. The Buyer/Client has all details of a Cancel Test Job.

#### 655 **7.2.18 Retrieve Modify Test Job List (Use Case 26)**

656 1. The Buyer/Client submits a Retrieve Modify Test Job List request using none or  
657 more of the filter criteria.

658 [R112] The Buyer/Client's Retrieve Modify Test Job List request **MUST** contain none  
659 or more of the following filter criteria:

- 660 • Requested Start Date Time (<, >)
- 661 • Requested End Date Time (<, >)
- 662 • Test Job Identifier

663 2. The Seller/Server returns a response to the Buyer.



664 [R113] If successful, the Seller/Server **MUST** return a list of Modify Test Job  
665 Identifiers that match the selected filter criteria along with all filter criteria  
666 attributes.

667 [R114] If successful but no matches to the filter criteria are found, the Seller/Server  
668 **MUST** return an empty list.

669 [R115] If unsuccessful, the Seller/Server **MUST NOT** return a list of Modify Test Job  
670 Identifiers or an empty list.

671 [R116] If unsuccessful, the Seller/Server **MUST** return an indication of the errors.

672 3. The Buyer has a list of the Test Job Identifiers that match the filter criteria.

673 **7.2.19 Retrieve Modify Test Job by Identifier (Use Case 27)**

674 1. The Buyer/Client submits a Retrieve Modify Test Job by Identifier request that  
675 includes the Modify Test Job Identifier.

676 [R117] The Buyer/Client’s Retrieve Modify Test Job by Identifier request **MUST**  
677 include the Modify Test Job Identifier and only the Modify Test Job Identifier.

678 2. The Seller/Server responds to the Modify Suspend Test Job by Identifier request.

679 [R118] If successful, the Seller/Server **MUST** include all attributes shown in Table 19  
680 or Table 20 in their response.

681 [R119] If unsuccessful, the Seller/Server **MUST NOT** return any attributes in their  
682 response.

683 [R120] If unsuccessful, the Seller/Server **MUST** return an indication of the errors  
684 encountered.

685 3. The Buyer/Client has all details of a Modify Test Job.

686 **7.3 Notifications**

687 Notifications may be supported by the Seller/Server. If the Seller/Server supports notifications,  
688 the Buyer/Client may subscribe to them.

689 **7.3.1 Register for Notifications (Use Case 17)**

690 1. The Buyer/Client registers for Notifications.

691

Attribute Name	Description	Value	Comments
Register Notification Identifier	The Identifier of the register for	String	Set by Seller/Server



Attribute Name	Description	Value	Comments
	notification request (Hub ID)		
Callback Address	The Callback Address being registered	String	Set by Buyer/Client
Notification Type	The type of notifications being registered for.	one or more of: <ul style="list-style-type: none"> <li>• Test Job Create</li> <li>• Test Job Attribute Value Change</li> <li>• Test Job State Change</li> <li>• Test Job Delete</li> <li>• Test Profile Create</li> <li>• Test Profile Attribute Value Change</li> <li>• Test Profile State Change</li> <li>• Test Profile Delete</li> <li>• Test Job Results Available</li> </ul>	Set by the Buyer/Client
Action	Specification to Start Notifications or Stop Notifications.	One of: <ul style="list-style-type: none"> <li>• START</li> <li>• STOP</li> </ul>	Set by the Buyer/Client

**Table 21 – Register for Notification Attributes**

692

**[R121]** The Buyer/Client Register for Notifications request **MUST** include the following:

693  
694

- Callback Address
- Zero or more Notification Types
- Action = START

695  
696  
697

2. The Seller/Server responds with an indication of success and includes the Register Notification Identifier.

698  
699

**[R122]** If successful, the Seller/Server response **MUST** indicate success and include the Register Notification Identifier and echo back all Buyer/Client provided attributes.

700  
701  
702



703 [R123] If successful, the Seller/Server **MUST** begin sending the appropriate  
704 notifications to the Buyer/Client.

705 [R124] The Seller/Server **MUST NOT** send notifications if the Buyer/Client has not  
706 registered for them.

707 [R125] If unsuccessful, the Seller/Server **MUST NOT** return a Register Notification  
708 Identifier.

709 [R126] If the Seller/Server experiences any errors, they **MUST** return an error  
710 indication to the Buyer/Client.

711 **7.3.2 Unregister for Notifications (Use Case 18)**

712 1. The Buyer/Client unregisters for Notifications.

713 [R127] The Buyer/Client Register for Notifications request **MUST** include the  
714 following:

- 715 • Callback Address
- 716 • Zero or more Notification Types
- 717 • Action = STOP

718 2. The Seller/Server responds with an indication of success.

719 [R128] If successful, the Seller/Server response **MUST** indicate success.

720 [R129] If successful, the Seller/Server **MUST** stop sending the appropriate  
721 notifications to the Buyer/Client.

722 [R130] If unsuccessful, the Seller/Server **MUST NOT** stop sending the appropriate  
723 notifications to the Buyer/Client.

724 [R131] If the Seller/Server experiences any errors, they **MUST** return an error  
725 indication to the Buyer/Client.

726 **7.3.3 Send Notification (Use Case 19)**

727 1. The Seller/Server sends a Notification to a Buyer/Client who has registered for  
728 Notifications when a Notification Event occurs.

729

Attribute Name	Description	Value	Comments
Event Notification Identifier	The Identifier of the notification	String	Set by Seller/Server
Test Profile Identifier	The Identifier of the Test Profile	String	Set by Seller/Server



Attribute Name	Description	Value	Comments
Test Job Identifier	The Identifier of the Test Job	String	Set by Seller/Server
Notification Type	The type of notification being generated.	One or more of: <ul style="list-style-type: none"> <li>• Test Job Create</li> <li>• Test Job Attribute Value Change</li> <li>• Test Job Test Results Ready</li> <li>• Test Profile Create</li> <li>• Test Profile Attribute Value Change</li> <li>• Test Profile Delete</li> <li>• Test Job Results Available</li> </ul>	Set by the Seller/Server
Event Time	The time that the event in the notification occurred.	Date/time	Set by Seller

**Table 22 – Notification Attributes**

730

**[R132]** The Seller/Server’s Notification **MUST** include the following attributes:

731

732

- Event Identifier

733

- Notification Type

734

- Event Time

Note: If the Notification Type is for a Test Profile, the Test Profile Identifier can be sent. If the Notification Type is for a Test Job, the Test Job Identifier can be sent.

736

2. The Buyer/Client acknowledges receipt of the notification.

737

**[O6]** If the Seller/Server does not receive a response from the Buyer/Client to the notification, they **MAY** cease sending notifications to the Callback Address.

738

739

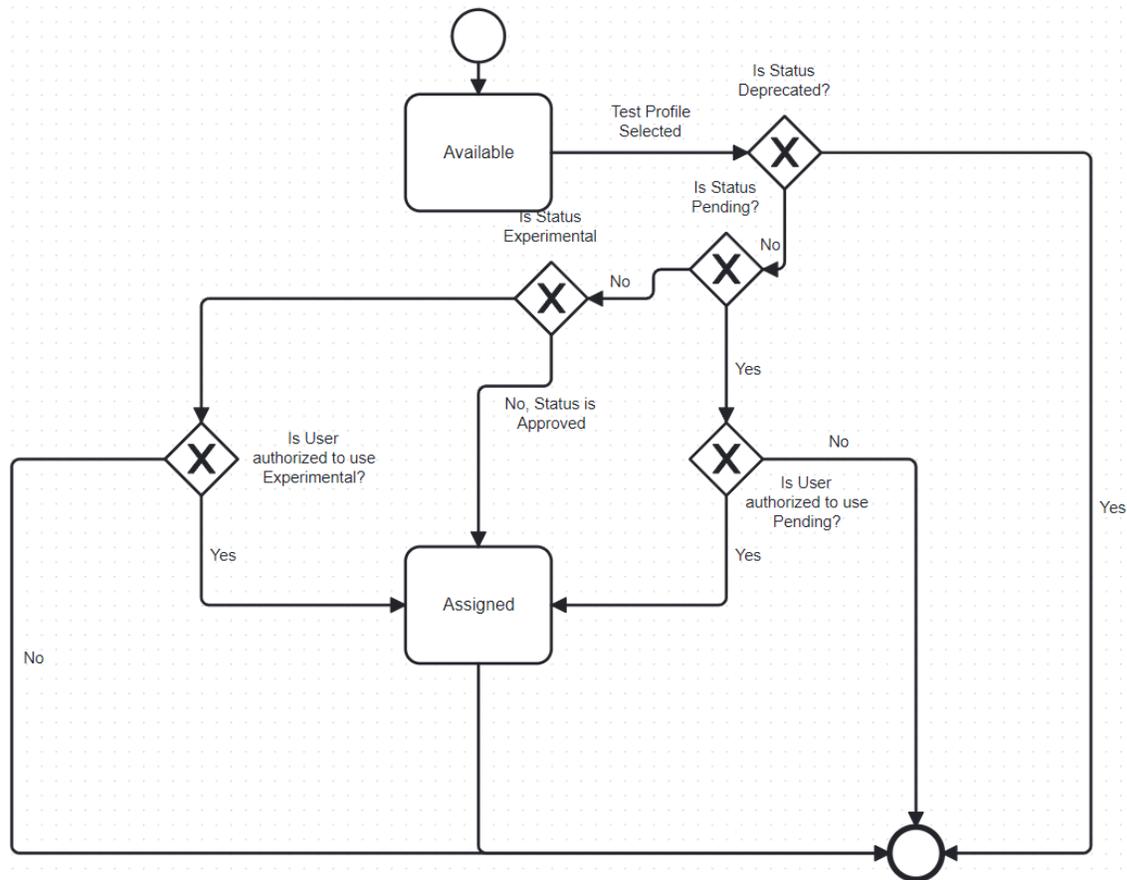
740

741 **8 Process Flows**

742 The Process Flows for Test Profile and Test Job are defined in the following sections.

743 **8.1 Test Profile Lifecycle Flow**

744 The lifecycle flow for a Test Profile is reflected in this section.



745 **Figure 4 – Test Profile Lifecycle Flow**

746

747

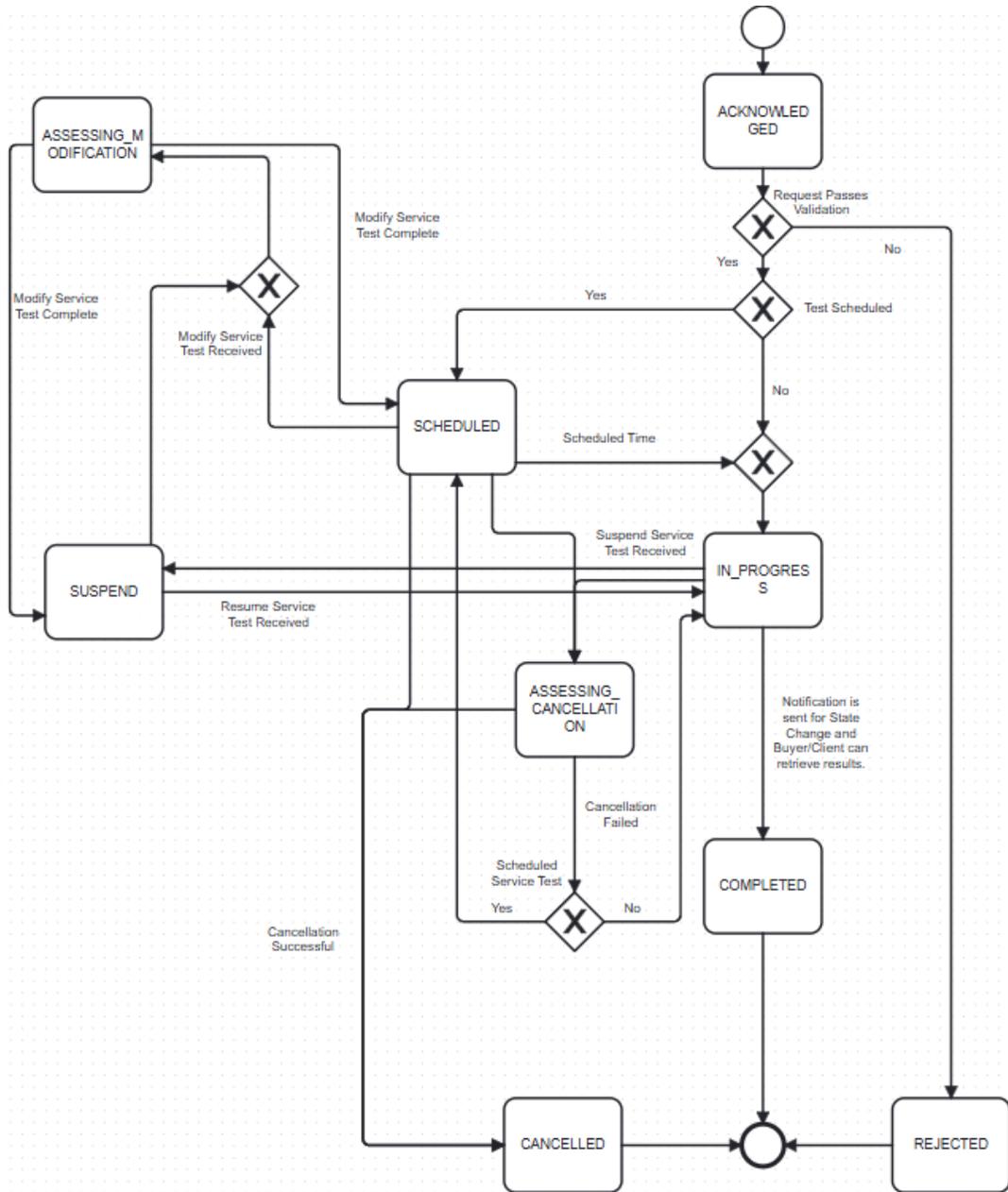
State Name	Description	Comments
ASSIGNED	The Test Profile has been assigned to a Test Job.	
AVAILABLE	The Test Profile has been created or modified and is ready for users to specify in a Test Job.	

748 **Table 23 – Test Profile Lifecycle States**

749 When the Test Profile State is COMPLETED, the Test Profile Assigned becomes FALSE.

750 **8.2 Test Job Process Flow**

751 The process Flow for Create Test Job is shown in Figure 5.



752

753

**Figure 5 – Test Job Lifecycle**

754 The Create Test Job State are detailed in Table 24.

755

State Name	Description	Comments
ACKNOWLEDGED	The Create Test Job request has been received from the	



State Name	Description	Comments
	<p>Buyer/Client, and the Seller/Server has assigned a Test Job Identifier to it. If the request attributes fail validation, the Create Test Job moves to the REJECTED state. If the attributes pass validation, it is then determined if the Create Test Job Requested Start Date Time is immediate or if the Create Test Job Requested Start Date Time indicates that the Test Job is to be scheduled for a later date time. If the Test Job is to be scheduled the Test Job moves to the SCHEDULED state and awaits the scheduled date and time. If the Test Job is to be performed immediately, the Test Job moves to the IN_PROGRESS state and Test Results begin.</p>	
ASSESSING_CANCELLATION	<p>A Cancel Test Job request is received while the Test Job is in the IN_PROGRESS or SCHEDULED state. If the Cancel Test Job request is approved, the Test Job moves to the CANCELLED state. If not, the Test Job returns to the IN_PROGRESS or SCHEDULED state.</p>	
ASSESSING_MODIFICATION	<p>A Modify Test Job request while the Test Job is in the SUSPEND or SCHEDULED state. If the Modify Test Job is accepted, the Test Job is updated. If the Modify Test Job is declined, the Test Job is not updated and returns to</p>	



State Name	Description	Comments
	the SUSPEND or SCHEDULED state..	
CANCELLED	A Cancel Test Job request is received from the Buyer/Client. If the request is accepted, the Test Job moves to the CANCELLED state. The Test Job must be in the IN_PROGRESS, SCHEDULED, or SUSPEND, state.	
COMPLETED	The Test Job has reached the End Date Time or has completed all Test Measurements and provided Test Results.	
IN_PROGRESS	Whether an immediate request or a scheduled request, the Test Job moves to the IN_PROGRESS state when it begins performing Test Results. If a Cancel Test Job request is received and accepted, the Test Job moves to the CANCELLED state. If the Cancel Test Job request is declined, the Test Job returns to the IN_PROGRESS state and continues Test Results until they are completed. If a Suspend Test Job request is received, the Test Job moves to the SUSPEND state.	
REJECTED	The Create Test Job request fails validation and is rejected.	
SCHEDULED	The Test Job is scheduled to start at a later time. The Test Job stays in the SCHEDULED state until the Requested Start Date and Time is reached. The Test Job moves to IN_PROGRESS when the	



State Name	Description	Comments
	Requested Start Date and Time is reached. A Test Job with the state SCHEDULED can be moved to the SUSPEND or CANCELLED state.	
SUSPEND	A Test Job in the IN_PROGRESS or SCHEDULED state receives a Suspend Test Job request. The Test Job moves to the SUSPEND state.	A Test Job cannot be modified unless it is in the SUSPEND state.

756

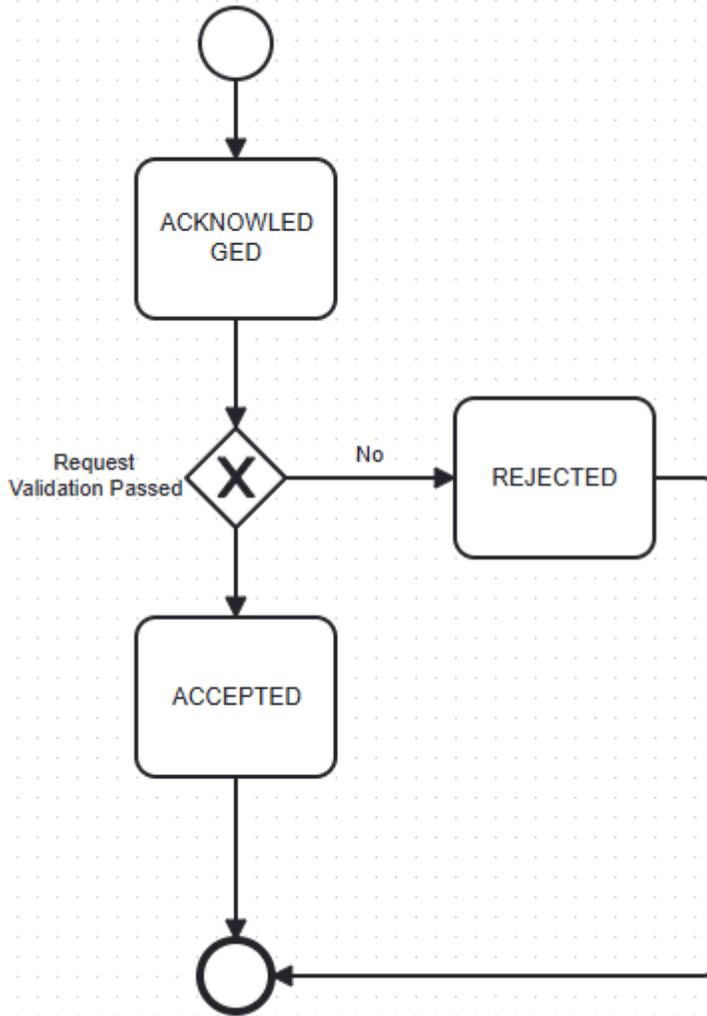
**Table 24 – Create Test Job State**

757

**8.3 Modify Test Job Process Flow**

758

The Modify Test Job process flow is shown in Figure 6.



759

760

**Figure 6 – Modify Test Job Process Flow**

761 The Modify Test Job State are defined in Table 25.

762

State Name	Description	Comments
ACKNOWLEDGED	The Modify Test Job request has been received from the Buyer/Client, and the Seller/Server has assigned a Modify Test Job Identifier to it. If the request attributes fail validation, the Modify Test Job moves to the REJECTED state. If the attributes pass validation, it is determined if the Modify Test Job is accepted or declined. If accepted, it moves to the ACCEPTED state. If declined, it moves to the DECLINED state.	
ACCEPTED	The Modify Test Job is accepted, and the Test Job is modified.	
REJECTED	The Modify Test Job does not pass attribute validation, and the Modify Test Job is rejected.	

763

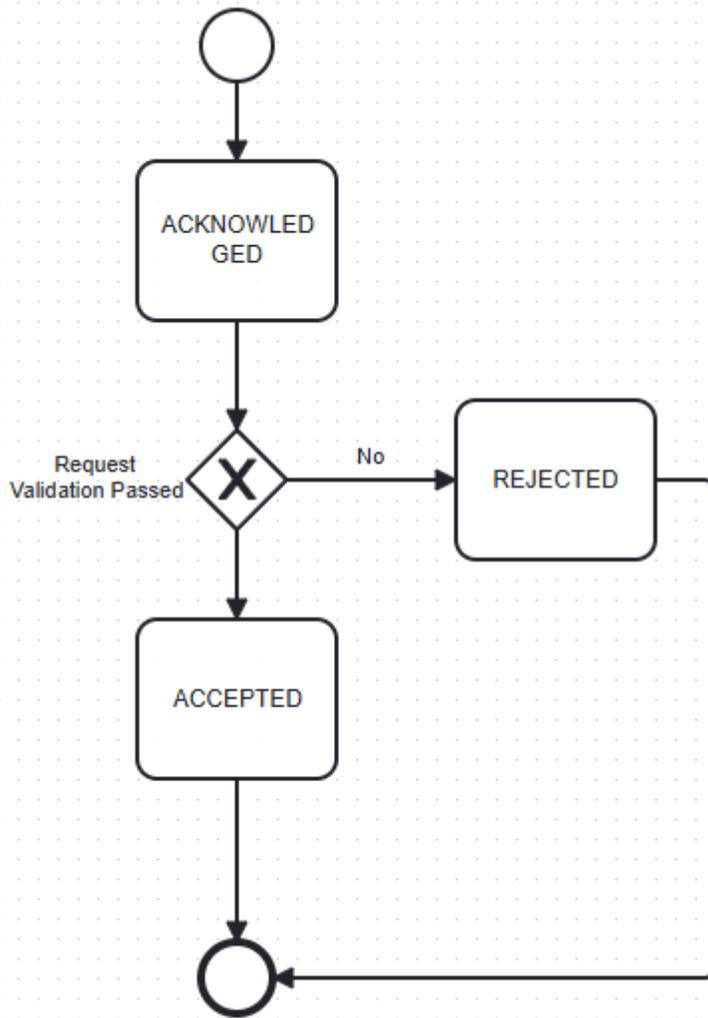
**Table 25 – Modify Test Job State**

764

**8.4 Suspend Test Job Process Flow**

765

The Suspend Test Job process flow is shown in Figure 7.



766

767

**Figure 7 – Suspend Test Job Process Flow**

768 The Suspend Test Job State are defined in Table 26.

769



State Name	Description	Comments
ACKNOWLEDGED	The Suspend Test Job request has been received from the Buyer/Client, and the Seller/Server has assigned a Suspend Test Job Identifier to it. If the request attributes fail validation, the Suspend Test Job request moves to the REJECTED state. If the attributes pass validation, it is determined if the Suspend Test Job request is accepted or declined. If accepted, it moves to the ACCEPTED state.	Suspend Test Job Identifier is assigned for the Suspend Test Job request and is different than the Create Test Job request.
ACCEPTED	The Suspend Test Job is accepted, and the Test Job is suspended.	
REJECTED	The Suspend Test Job does not pass attribute validation, and the Suspend Test Job is rejected.	

770

**Table 26 – Suspend Test Job State**

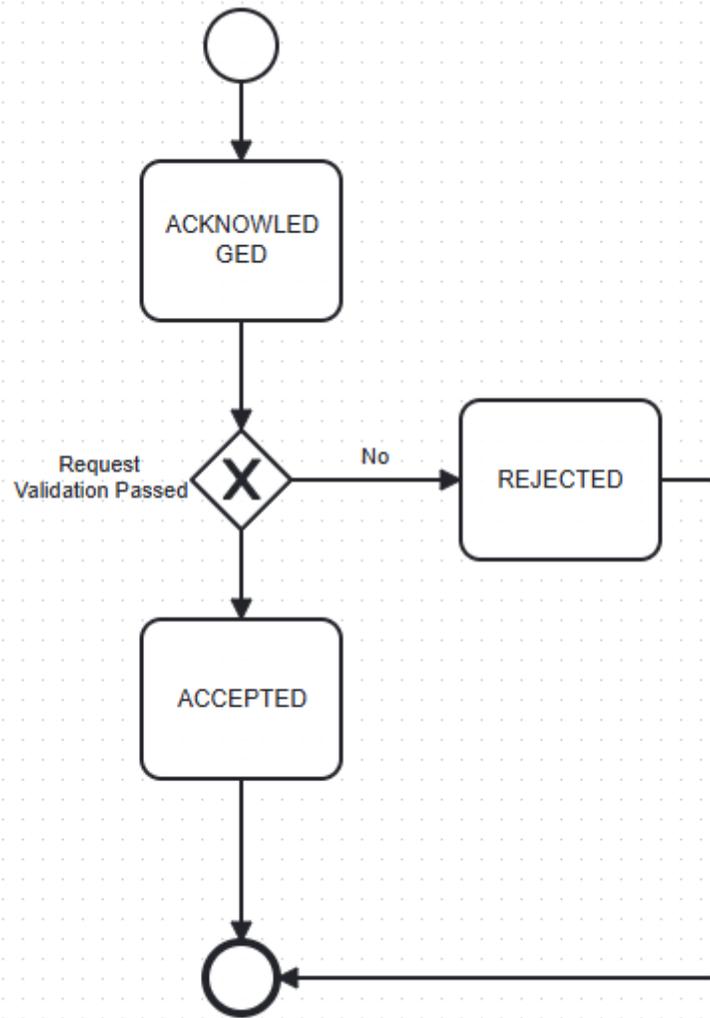
771 **8.5 Resume Test Job Process Flow**

772 The Resume Test Job process flow is shown in Figure 8.

773

774

775



776

777

**Figure 8 – Resume Test Job Process Flow**

778 The Resume Test Job State are defined in Table 27.

779

State Name	Description	Comments
ACKNOWLEDGED	The Resume Test Job request has been received from the Buyer/Client, and the Seller/Server has assigned a Resume Test Job Identifier to it. If the request attributes fail validation, the Resume Test Job request moves to the REJECTED state. If the attributes pass validation, it is determined if the Resume Test Job request is accepted or declined. If accepted, it moves to the ACCEPTED state.	
ACCEPTED	The Resume Test Job is accepted, and the Test Job is resumed.	
REJECTED	The Resume Test Job does not pass attribute validation, and the Resume Test Job is rejected.	

780

**Table 27 – Resume Test Job State**

781

**8.6 Cancel Test Job Process Flow**

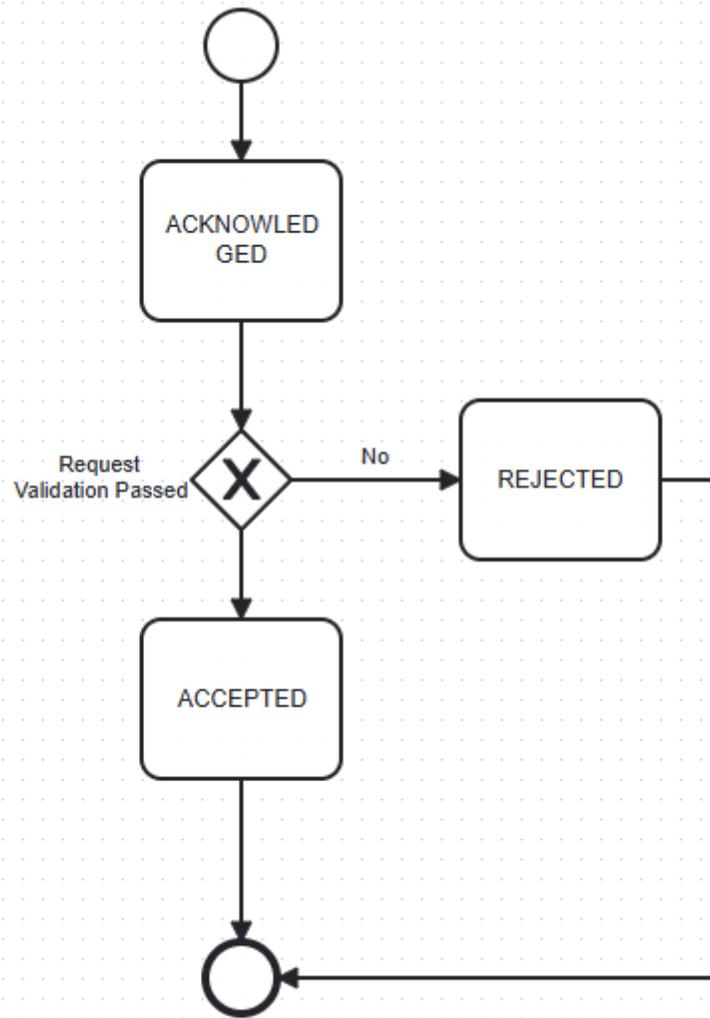
782

The Cancel Test Job process flow is shown in Figure 8.

783

784

785



786

787

**Figure 9 – Cancel Test Job Process Flow**

788 The Cancel Test Job State are defined in Table 27.

789



State Name	Description	Comments
ACKNOWLEDGED	The Cancel Test Job request has been received from the Buyer/Client, and the Seller/Server has assigned a Cancel Test Job Identifier to it. If the request attributes fail validation, the Cancel Test Job request moves to the REJECTED state. If the attributes pass validation, it is determined if the Cancel Test Job request is accepted or declined. If accepted, it moves to the ACCEPTED state.	
ACCEPTED	The Cancel Test Job is accepted, and the Test Job is cancelled.	
REJECTED	The Cancel Test Job does not pass attribute validation, and the Cancel Test Job is rejected.	

790

**Table 28 – Resume Test Job State**

791

792 **9 References**

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- 798 [3] MEF 55.1, *Lifecycle Service Orchestration (LSO): Reference Architecture and*  
799 *Framework*, January 2021
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801

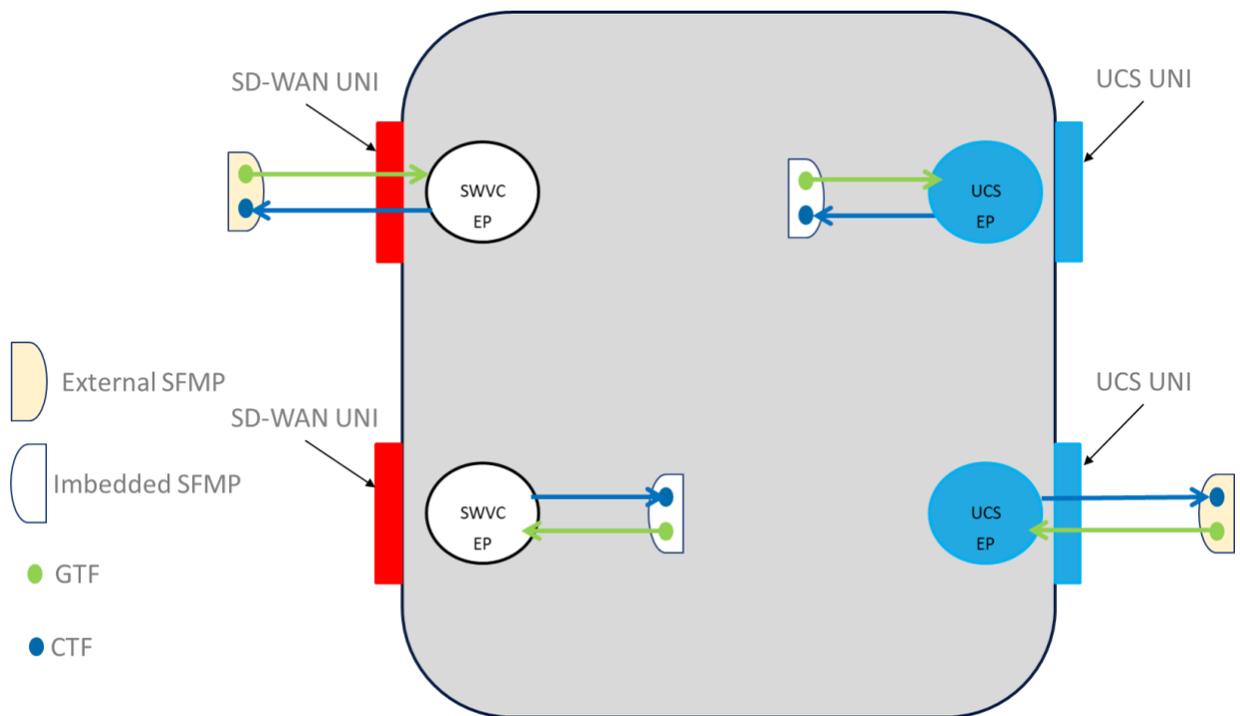
802 **Appendix A Test Access Provisioning**

803 Test Access connects the Test Resources to the Service Under Test (SUT). Test Access is  
 804 provisioned by the Service Provisioning system before a Test Job can be run. This appendix  
 805 explains the types of Test Resources and how the Service Provisioning system configures the Test  
 806 Access before a Test Job is performed.

807 **A.1 Test Resources**

808 The term Test Resource is used to describe the function or device that performs the Test Results  
 809 as instructed by the Test Job and Test Profile. There are two general types of Test Resources,  
 810 Imbedded and External. An Imbedded Test Resource is included within a device or application  
 811 that is within the path of a service. Examples of Imbedded Test Resources are applications that  
 812 reside within a device and can be inserted into the path of a service within the device. External  
 813 Test Resources are probes or other types of Test Resource that are externally connected to the  
 814 device on which the SUT is provisioned.

815 Test Resources, as described in this document, are made up of three components, the Service  
 816 Function Measurement Point (SFMP), the Generator Test Function (GTF), and the Collector Test  
 817 Function (CTF). These are shown in both Imbedded and External uses in Figure 10.



818

819

**Figure 10 – Imbedded and External SFMP, GTF, and CTF**

820 The SFMP, whether Imbedded or External, always contains one GTF and one CTF. In some cases,  
 821 the GTF or CTF may be inactive. At least one of them is always active. As their names imply,  
 822 the GTF generates test frames or packets that are formatted to be passed on the SUT. The CTF  
 823 collects and counts, collects and processes, or collects and performs measurements on frames or  
 824 packets that have been received from a GTF. Once the CTF has counted, processed, or performed

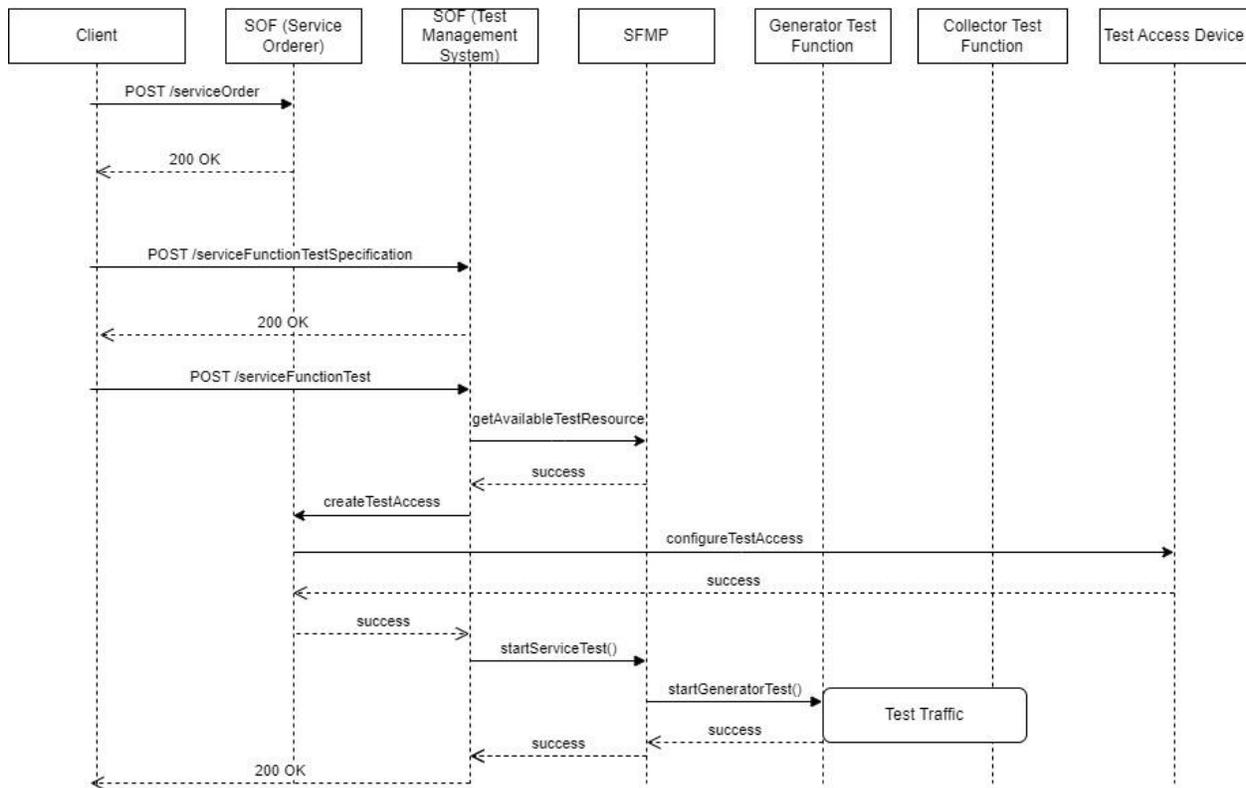
825 measurements, they discard the frames or packets. Testing is performed using a pair of GTF/CTFs.  
826 These may be co-located as when testing to a loopback or may be at either end of a service when  
827 testing between an ordered pair of points within the service.

828 The Test Resources that are shown in Figure 10 are controlled via the Test Management System  
829 which provisions, configures, and retrieves test results from the Test Resources. The Test  
830 Management System is assumed to be a part of the Service Orchestration Function (SOF). The  
831 Test Profiles are configured in the Test Management System. Test Jobs requests are sent to the  
832 Test Management System. The Test Management System then configures the SFMP to perform  
833 the test defined in the Test Profile and Test Job.

## 834 **A.2 Test Access Configuration**

835 The SFMP is connected to the SUT, either as an Imbedded or an External Test Resource. The  
836 physical or logical connection between the SUT and the SFMP is made using the Service  
837 Provisioning System. The SUT is identified in the Test Job as the *Related Service Identifier*. The  
838 Test Management System uses the *Related Service Identifier* to identify the SUT to the Service  
839 Provisioning System and requests that the SUT either be connected to an Imbedded or External  
840 SFMP including what the GTF and CTF are connected to.

841 Once the Service Provisioning Service has connected the SUT to the SFMP, the Test Management  
842 System then configures the SFMP, and Test Results are performed as specified in the Test Job.  
843 This process is shown in the sequence diagrams shown in Figure 11.



844

845

**Figure 11 – Test Access Sequence Diagram**

846 As seen in Figure 11, the request from the Test Management System verifies that an appropriate  
 847 SFMP is available at the specified test point. If there is an SFMP available, the Test Management  
 848 System sends a request to the Service Provisioning System to connect the SFMP to the SUT with  
 849 the GTF and CTF connected appropriately to perform the Test Job.

850 Once the Service Provisioning System has completed the appropriate connections, it responds with  
 851 a completion notice to the Test Management System. The Test Management System performs the  
 852 Test Job and upon completing the Test Job, requests that the Service Provisioning System restore  
 853 the SUT to its original configuration, which restores the service to its normal path.

854 The Test Management System then collects all measurements, performs any required calculations,  
 855 and reports the results of the Test Job to the requestor.

856

## 857 **Appendix B Test Profile and Test Job Overview**

858 There are two parts, Test Profile and Test Job, to SFT that are described within this document.  
859 This appendix describes how those two parts interact with each other.

### 860 **B.1 Test Profile**

861 The Test Profile is used to define what measurements are performed for a given service type. Test  
862 Profiles are specific to a specific service type and can be referenced by many different Test Jobs  
863 simultaneously. Test Profiles provide a repeatable set of instructions for a Test Job to perform  
864 ensuring that different instances of the same Service Offering are performed the same way.

865 Test Profiles contain the Lifecycle Status attribute that specifies where in the development process  
866 the Test Profile is located. This can range from Experimental whose use may be limited to a small  
867 number of users, to Deprecated where the Test Profile has been replaced by another Test Profile  
868 and is not intended for use. Lifecycle Status also includes Pending where the Test Profile is waiting  
869 to be approved and Approved, where the Test Profile has been approved for general use. The  
870 Lifecycle Status is often used to indicate what type of user can use the Test Profile.

871 Test Profiles also include the step by step test process in the Service Specific Test Profile  
872 Attributes. As an example, the steps for generating ICMP pings, measuring the response, and  
873 calculating the results are contained in these attributes.

874 *Editor Note 1: After clarification of the Test Profile Relationship Type is received, the use of*  
875 *these relationship types will be added to this appendix.*

### 876 **B.2 Test Job**

877 The Test Job is a Service specific entity that defines the service to be tested, the Test Profile to be  
878 used, and the Service specific Test attributes. Test Jobs perform the actual Test Measurements  
879 and makes the Test Results available. As a Test Job runs, it uses the instructions in the Test Profile  
880 to perform the specified Test Measurements. Once the Test Job has completed the Test  
881 Measurements, it makes a report of the Test Results available.

882 Test Jobs can also be created without referencing a Test Profile, known as Test Job w/o Test  
883 Profile. Test Jobs w/o Test Profiles are often used for one off testing rather than repeatable  
884 standard tests. In that case, the Test Job defines the attributes that would be defined in the Test  
885 Profile including the steps to perform the Test Measurements. The Test Job performs the actual  
886 Test Measurements and makes a report of the Test Results available.

887 As an example, a Test Job is created to perform Test Measurements on an IP Service. The Test  
888 Profile that defines how to perform an ICMP ping test is referenced in the Test Job. When the  
889 Test Job runs, it performs the steps defined in the Test Profile on the Service under test. Once  
890 complete, results of the test are available, and can be retrieved by the user or can be automatically  
891 reported by the test system.

892



893 **Appendix C Acknowledgements**

894 The following individuals are recognized as individual contributors to this document.

- 895 • Mike **BENCHECK**
- 896 • Michał **ŁĄCZYŃSKI**
- 897 • Bartosz **MICHALIK**
- 898 • Boris **TRINAJSTIC**

899