



## Testing Guide

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# Carrier Ethernet Certification Blueprint

January 2026

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## 1. Abstract

Mplify is evolving the Carrier Ethernet Certification Program by:

- Rebranding the existing MEF 3.0 CE certifications to Carrier Ethernet for Business
- Introducing the first phase of Carrier Ethernet for AI certifications

The service types eligible for Carrier Ethernet (CE) for Business certification are E-Line, E-LAN, E-Tree, Access E-Line, and Transit E-Line. CE for Business certification testing is based on the requirements specified in MEF 91 'Carrier Ethernet Test Requirements' and MEF 91.0.1 'Amendment to MEF 91: Satellite Performance Tier'. For each service type eligible for CE for Business certification, the test requirement references and a description of the tested attributes, parameters and values are listed in tables 3 through 12 of this document and referred to as the '**Business Profiles**'.

The service types eligible for Carrier Ethernet (CE) for AI certification are E-Line, Access E-Line, and Transit E-Line. CE for AI certification testing is based on the requirements specified in MEF 91 'Carrier Ethernet Test Requirements' and MEF 91.0.1 'Amendment to MEF 91: Satellite Performance Tier'. For each service type eligible for CE for AI certification, the test requirement references and a description of the tested attributes, parameters and values are listed in tables 3 through 8 of this document and referred to as the '**AI Profiles**'.

The purpose of this document is to provide a framework for testing and certification of Carrier Ethernet Services supporting business and AI applications. It is not intended to mandate how Operators, Service Providers or Subscribers map particular applications to specific Performance Tiers and CoS Labels within their networks.

## 2. Scope

The service types that are in scope for CE for Business and CE for AI certifications phase 1 are listed in the following table.

	CE for Business Certification	CE for AI Certification
E-Line	•	•
Access E-Line	•	•
Transit E-Line	•	•
E-LAN	•	
E-Tree	•	

Table 1: Service types in scope for CE for Business and CE for AI certifications phase 1

The combinations of Performance Tiers (PTs) and CoS Labels that are in scope for CE for Business and CE for AI certifications phase 1 are listed in the following table.

	CE for Business Certification	CE for AI Certification
PT0.3 CoS Label H	•	•
PT0.3 CoS Label M	•	
PT0.3 CoS Label L	•	
PT1 CoS Label H	•	
PT1 CoS Label M	•	
PT1 CoS Label L	•	
PT2 CoS Label H	•	
PT2 CoS Label M	•	
PT2 CoS Label L	•	
PT3 CoS Label H	•	
PT3 CoS Label M	•	
PT3 CoS Label L	•	
PT4 CoS Label H	•	
PT4 CoS Label M	•	
PT4 CoS Label L	•	
PT5 CoS Label H	•	
PT5 CoS Label M	•	
PT5 CoS Label L	•	

Note 1: New Performance Tiers and associated CoS Labels and Performance Objectives are currently being defined in MEF 23.3 and may be added to the scope of this document, in the future.

Table 2: Performance Tiers and CoS Labels in scope for CE for Business and CE for AI certifications phase 1

### 3. E-Line Service - Business and AI Profiles

#### 3.1 Service Provider Certification

E-Line	CE for Business Certification	CE for AI Certification
Test Requirements	Business Profile	AI Profile <i>** Orange values are to be agreed within TCC</i>
MEF 91/91.0.1 Index	Functional Testing	Functional Testing
2	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
11, 38, 40, 41	Tested with one <b>point-to-point EVC</b> connecting <b>two UNIs</b>	Tested with one <b>point-to-point EVC</b> connecting <b>two UNIs</b>
7, 48	Tested with UNI and EVC MFS $\geq 1522$ -Byte	Tested with UNI and EVC MFS $\geq 9000$ -Byte
9, 10, 12, 13	Tested with one of [All, List, UT/PT] mappings	Tested with one of [All, List, UT/PT] mappings
6	Tested with <b>Tagged, Untagged and Priority Tagged</b> IEEE 802.3 frames	Tested with <b>Tagged, Untagged and Priority Tagged</b> IEEE 802.3 frames
45	Tested with one of CE-VLAN ID preservation [Enabled, Disabled]	Tested with one of CE-VLAN ID preservation [Enabled, Disabled]
46	Tested with one of CoS ID preservation [Enabled, Disabled]	Tested with one of CoS ID preservation [Enabled, Disabled]
42	Tested with one of Unicast Delivery [Unconditional, Conditional]	Tested with one of Unicast Delivery [Unconditional, Conditional]
43	Tested with one of Multicast Delivery [Unconditional, Conditional, Discard]	Tested with one of Multicast Delivery [Unconditional, Conditional, Discard]
44	Tested with one of Broadcast Delivery [Unconditional, Conditional, Discard]	Tested with one of Broadcast Delivery [Unconditional, Conditional, Discard]
35	Tested with one of Source MAC Address Limit [Enabled, Disabled]	Tested with one of Source MAC Address Limit [Enabled, Disabled]
MEF 91/91.0.1 Index	Class of Service Testing	Class of Service Testing
24, 25, 26, 28, 29, 30	Tested with one of [Single, Multiple] Classes of Service	Tested with one of [Single, Multiple] Classes of Service
24, 25, 26, 28, 29, 30	Tested with one of [EVC EP, PCP, IP/DSCP] Class of Service Identifiers	Tested with one of [EVC EP, PCP, IP/DSCP] Class of Service Identifiers
27, 33, 34	Tested with one of [PCP, DEI, IP/DSCP] Color Identifiers	-
MEF 91/91.0.1 Index	Bandwidth Profile Testing	Bandwidth Profile Testing
14, 15	Tested with <b>one</b> BWP Flow per Envelope & Token Share <b>Disabled</b>	Tested with <b>one</b> BWP Flow per Envelope & Token Share <b>Disabled</b>
33, 34	Tested with one of [Committed only, Committed + Excess] Information Rates and Burst Sizes. <i>(Note 1)</i>	Tested with <b>Committed</b> Information Rates and Burst Sizes
33, 34	If <b>Committed + Excess</b> , tested with $\Sigma$ Committed & Excess Information Rates up to <b>75%</b> of EI Speed	-
33, 34	If <b>Committed only</b> , tested with $\Sigma$ Committed Information Rates up to <b>75%</b> of EI Speed	Tested with $\Sigma$ Committed Information Rates up to <b>95%</b> of EI Speed
33, 34	Tested with one of [Color Blind, Color Aware] mode	Tested with <b>Color Blind</b> mode
33, 34	Tested with one of [CF=0, CF=1]	Tested with <b>CF=0</b>
33, 34, 6	Tested with a range of IEEE 802.3 Ethernet frames up to <b>1500</b> Bytes	Tested with a range of IEEE 802.3 Ethernet frames up to <b>9000</b> Bytes
MEF 91/91.0.1 Index	L2CP Testing	L2CP Testing
21, 22	Tested with one of [CTA, CTB, CTB-2] Address Sets	Tested with one of [CTA, CTB, CTB-2] Address Sets
MEF 91/91.0.1 Index	SOAM Testing	SOAM Testing
37	Tested for transparency with <b>CCM, LBM, LBR, LTM and LTR</b> SOAM PDUs	Tested for transparency with <b>CCM, LBM, LBR, LTM and LTR</b> SOAM PDUs
37	Tested with one of [Enabled, Disabled] Subscriber MEG MIP	Tested with one of [Enabled, Disabled] Subscriber MEG MIP
MEF 91/91.0.1 Index	Performance Testing	Performance Testing
47	Tested with one of [PT0.3, PT1, PT2, PT3, PT4, PT5] Performance Tier	Tested with <b>PT 0.3</b> Performance Tier. <i>(Note 2)</i>
47	Tested with at least one of [High, Medium, Low] CoS Label & Parameter Values	Tested with <b>High</b> CoS Label & Parameter Values. <i>(Note 2)</i>
MEF 91/91.0.1 Index	Efficiency Testing	Efficiency Testing
33, 34, 7	-	<b>Tested with information rate <math>\geq 99\%</math> of EI Speed, without bandwidth profile, using MFS-Byte frames, and FLR performance objective <math>\leq 0.001\%</math></b>
MEF 91/91.0.1 Index	Uptime Testing	Uptime Testing
47	-	<i>(Note 3)</i>
<p>Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.</p> <p>Note 2: New PTs &amp; associated CoS Labels &amp; Parameter Values being defined in MEF 23.3 may be added to the PTs and CoS Label &amp; Parameter Values available for CE for AI certification.</p> <p>Note 3: Availability testing may be added to CE for AI certification testing if the metric gets included part of the new PTs &amp; associated CoS Labels &amp; Parameter Values being defined in MEF 23.3.</p>		

Table 3: E-Line Business and AI Profiles for Service Provider Certification

### 3.2 Technology Provider Certification

E-Line	CE for Business Certification	CE for AI Certification
Test Requirements	Business Profile	AI Profile <b>** Orange values are to be agreed within TCC</b>
MEF 91/91.0.1 Index	Functional Testing	Functional Testing
2	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
11, 38, 40, 41	Tested with one <b>point-to-point EVC</b> connecting <b>two UNIs</b>	Tested with one <b>point-to-point EVC</b> connecting <b>two UNIs</b>
7, 48	Tested with UNI and EVC MFS = 1522-Byte	Tested with UNI and EVC MFS <b>≥ 9000-Byte</b>
9, 10, 12, 13	Tested with <b>All, List and UT/PT</b> mappings	Tested with <b>All, List and UT/PT</b> mappings
6	Tested with <b>Tagged, Untagged and Priority Tagged</b> IEEE 802.3 frames	Tested with <b>Tagged, Untagged and Priority Tagged</b> IEEE 802.3 frames
45	Tested with CE-VLAN ID preservation <b>Enabled and Disabled</b>	Tested with CE-VLAN ID preservation <b>Enabled and Disabled</b>
46	Tested with CoS ID preservation <b>Enabled and Disabled</b>	Tested with CoS ID preservation <b>Enabled and Disabled</b>
42	Tested with Unicast Delivery <b>Unconditional</b>	Tested with Unicast Delivery <b>Unconditional</b>
43	Tested with Multicast Delivery <b>Unconditional, Conditional and Discard</b>	Tested with Multicast Delivery <b>Unconditional, Conditional and Discard</b>
44	Tested with Broadcast Delivery <b>Unconditional, Conditional and Discard</b>	Tested with Broadcast Delivery <b>Unconditional, Conditional and Discard</b>
35	Tested with Source MAC Address Limit <b>Enabled and Disabled</b>	Tested with Source MAC Address Limit <b>Enabled and Disabled</b>
MEF 91/91.0.1 Index	Class of Service Testing	Class of Service Testing
24, 25, 26, 28, 29, 30	Tested with <b>Single and Multiple</b> Classes of Service	Tested with <b>Single and Multiple</b> Classes of Service
24, 25, 26, 28, 29, 30	Tested with <b>EVC EP, PCP and IP/DSCP</b> Class of Service Identifiers	Tested with <b>EVC EP, PCP and IP/DSCP</b> Class of Service Identifiers
27, 33, 34	Tested with <b>PCP, DEI and IP/DSCP</b> Color Identifiers	-
MEF 91/91.0.1 Index	Bandwidth Profile Testing	Bandwidth Profile Testing
14, 15	Tested with <b>one</b> BWP Flow per Envelope & Token Share <b>Disabled</b>	Tested with <b>one</b> BWP Flow per Envelope & Token Share <b>Disabled</b>
33, 34	Tested with <b>Committed only and Committed + Excess</b> Information Rates and Burst Sizes. <i>(Note 1)</i>	Tested with <b>Committed</b> Information Rates and Burst Sizes
33, 34	Tested with $\Sigma$ Committed & Excess Information Rates up to <b>75%</b> of EI Speed	-
33, 34	Tested with $\Sigma$ Committed Information Rates up to <b>75%</b> of EI Speed	Tested with $\Sigma$ Committed Information Rates up to <b>95%</b> of EI Speed
33, 34	Tested with <b>Color Blind</b> and <b>Color Aware</b> modes	Tested with <b>Color Blind</b> mode
33, 34	Tested with <b>CF=0</b> and <b>CF=1</b>	Tested with <b>CF=0</b>
33, 34, 6, 7	Tested with a range of IEEE 802.3 Ethernet frames up to <b>1500</b> Bytes	Tested with a range of IEEE 802.3 Ethernet frames up to <b>9000</b> Bytes
MEF 91/91.0.1 Index	L2CP Testing	L2CP Testing
21, 22	Tested with <b>CTA, CTB and CTB-2</b> Address Sets	Tested with <b>CTA, CTB and CTB-2</b> Address Sets
MEF 91/91.0.1 Index	SOAM Testing	SOAM Testing
37	Tested for transparency with <b>CCM, LBM, LBR, LTM and LTR</b> SOAM PDUs	Tested for transparency with <b>CCM, LBM, LBR, LTM and LTR</b> SOAM PDUs
37	Tested with Subscriber MEG MIP <b>Enabled and Disabled</b>	Tested with Subscriber MEG MIP <b>Enabled and Disabled</b>
MEF 91/91.0.1 Index	Performance Testing	Performance Testing
47	Tested with <b>PT0.3</b> Performance Tier	Tested with <b>PT 0.3</b> Performance Tier. <i>(See note 2)</i>
47	Tested with <b>High, Medium and Low</b> CoS Label & Parameter Values	Tested with <b>High</b> CoS Label & Parameter Values. <i>(See note 2)</i>
MEF 91/91.0.1 Index	Efficiency Testing	Efficiency Testing
33, 34	-	<b>Tested with information rate <math>\geq</math> 99% of EI Speed, without bandwidth profile, using MFS-Byte frames, and FLR performance objective <math>\leq</math> 0.001%</b>
MEF 91/91.0.1 Index	Uptime Testing	Uptime Testing
47	-	<i>(Note 3)</i>

Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.  
Note 2: New PTs & associated CoS Labels & Parameter Values being defined in MEF 23.3 may be added to the PTs and CoS Label & Parameter Values available for CE for AI certification.  
Note 3: Availability testing may be added to CE for AI certification testing if the metric gets included part of the new PTs & associated CoS Labels & Parameter Values being defined in MEF 23.3.

Table 4: E-Line Business and AI Profiles for Technology Provider Certification

## 4. Access E-Line Service - Business and AI Profiles

### 4.1 Service Provider Certification

Access E-Line	CE for Business Certification	CE for AI Certification
Test Requirements	Business Profile	AI Profile <b>** Orange values are to be agreed within TCC</b>
MEF 91/91.0.1 Index	Functional Testing	Functional Testing
146, 173	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
169, 185, 186, 187, 188	Tested with one point-to-point OVC connecting one UNI and one ENNI	Tested with one point-to-point OVC connecting one UNI and one ENNI
152, 183, 189	Tested with UNI MFS $\geq$ 1522-Byte and ENNI and OVC MFS $\geq$ 1526-Byte	Tested with UNI MFS $\geq$ 9000-Byte and ENNI and OVC MFS $\geq$ 9004-Byte
153, 201, 212	Tested with one of [All, List, UT/PT] mappings at UNI and single S-VLAN ID at ENNI	Tested with one of [All, List, UT/PT] mappings at UNI and single S-VLAN ID at ENNI
151, 174	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames
190	Tested with CE-VLAN ID preservation Preserved	Tested with CE-VLAN ID preservation Preserved
191	Tested with CoS ID preservation Enabled	Tested with CoS ID preservation Enabled
196	Tested with Unicast Unconditional Delivery	Tested with Unicast Unconditional Delivery
197	Tested with Multicast Unconditional Delivery	Tested with Multicast Unconditional Delivery
198	Tested with Broadcast Unconditional Delivery	Tested with Broadcast Unconditional Delivery
207, 218	Tested with one of Source MAC Address Limit [Enabled, Disabled]	Tested with one of Source MAC Address Limit [Enabled, Disabled]
MEF 91/91.0.1 Index	Class of Service Testing	Class of Service Testing
202, 213	Tested with one of [Single, Multiple] Classes of Service	Tested with one of [Single, Multiple] Classes of Service
202, 213	Tested with one of [OVC EP, PCP, IP/DSCP] Class of Service Identifiers	Tested with one of [OVC EP, PCP, IP/DSCP] Class of Service Identifiers
204, 215	Tested with one of [PCP, DEI, IP/DSCP] Color Identifiers	-
MEF 91/91.0.1 Index	Bandwidth Profile Testing	Bandwidth Profile Testing
162, 163, 170, 171	Tested with one BWP Flow per Envelope & Token Share Disabled	Tested with one BWP Flow per Envelope & Token Share Disabled
204, 215	Tested with one of [Committed only, Committed + Excess] Information Rates and Burst Sizes. (See note 1)	Tested with Committed Information Rates and Burst Sizes
204, 215	If Committed + Excess, tested with $\Sigma$ Committed & Excess Information Rates up to 75% of EI Speed	-
204, 215	If Committed only, tested with $\Sigma$ Committed information Rates up to 75% of EI Speed	Tested with $\Sigma$ Committed information Rates up to 95% of EI Speed
204, 215	Tested with one of [Color Blind, Color Aware] mode	Tested with Color Blind mode
204, 215	Tested with one of [CF=0, CF=1]	Tested with CF=0
204, 215, 151, 174	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes	Tested with a range of IEEE 802.3 Ethernet frames up to 9000 Bytes
MEF 91/91.0.1 Index	L2CP Testing	L2CP Testing
164, 165, 181, 182	Tested with one of [CTA, CTB, CTB-2] Address Sets	Tested with one of [CTA, CTB, CTB-2] Address Sets
MEF 91/91.0.1 Index	SOAM Testing	SOAM Testing
199	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
199	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level
209, 220	Tested with one of [Enabled, Disabled] Subscriber MEG MIP and SP MEG MIP	Tested with one of [Enabled, Disabled] Subscriber MEG MIP and SP MEG MIP
MEF 91/91.0.1 Index	Performance Testing	Performance Testing
195	Tested with one of [PT0.3, PT1, PT2, PT3, PT4, PT5] Performance Tier	Tested with PT 0.3 Performance Tier. (Note 2)
195	Tested with at least one of [High, Medium, Low] CoS Label & Parameter Values	Tested with High CoS Label & Parameter Values. (Note 2)
MEF 91/91.0.1 Index	Efficiency Testing	Efficiency Testing
204, 215, 152, 183, 189	-	Tested with information rate $\geq$ 99% of EI Speed, without bandwidth profile, using MFS-Byte frames, and FLR performance objective $\leq$ 0.001%
MEF 91/91.0.1 Index	Uptime Testing	Uptime Testing
195	Not tested	(Note 3)
Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification. Note 2: New PTs & associated CoS Labels & Parameter Values being defined in MEF 23.3 may be added to the PTs and CoS Label & Parameter Values available for CE for AI certification. Note 3: Availability testing may be added to CE for AI certification testing if the metric gets included part of the new PTs & associated CoS Labels & Parameter Values being defined in MEF 23.3.		

Table 5: Access E-Line Business and AI Profiles for Service Provider Certification

## 4.2 Technology Provider Certification

Access E-Line	CE for Business Certification	CE for AI Certification
Test Requirements	Business Profile	AI Profile <i>** Orange values are to be agreed within TCC</i>
MEF 91/91.0.1 Index	Functional Testing	Functional Testing
146, 173	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
169, 185, 186, 187, 188	Tested with one point-to-point OVC connecting one UNI and one ENNI	Tested with one point-to-point OVC connecting one UNI and one ENNI
152, 183, 189	Tested with UNI MFS = 1522-Byte and ENNI and OVC MFS = 1526-Byte	Tested with UNI MFS ≥ 9000-Byte and ENNI and OVC MFS ≥ 9004-Byte
153, 201, 212	Tested with All and List mappings at UNI and one S-VLAN ID at ENNI	Tested with All and List mappings at UNI and one S-VLAN ID at ENNI
151, 174	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames
190	Tested with CE-VLAN ID preservation Preserved	Tested with CE-VLAN ID preservation Preserved
191	Tested with CoS ID preservation Enabled	Tested with CoS ID preservation Enabled
196	Tested with Unicast Unconditional Delivery	Tested with Unicast Unconditional Delivery
197	Tested with Multicast Unconditional Delivery	Tested with Multicast Unconditional Delivery
198	Tested with Broadcast Unconditional Delivery	Tested with Broadcast Unconditional Delivery
207, 218	Tested with Source MAC Address Limit Enabled and Disabled	Tested with Source MAC Address Limit Enabled and Disabled
MEF 91/91.0.1 Index	Class of Service Testing	Class of Service Testing
202, 213	Tested with Single and Multiple Classes of Service	Tested with Single and Multiple Classes of Service
202, 213	Tested with OVC EP, PCP and IP/DSCP Class of Service Identifiers	Tested with OVC EP, PCP and IP/DSCP Class of Service Identifiers
204, 215	Tested with PCP, DEI and IP/DSCP Color Identifiers	-
MEF 91/91.0.1 Index	Bandwidth Profile Testing	Bandwidth Profile Testing
162, 163, 170, 171	Tested with one BWP Flow per Envelope & Token Share Disabled	Tested with one BWP Flow per Envelope & Token Share Disabled
204, 215	Tested with Committed only and Committed + Excess Information Rates and Burst Sizes. (See note 1)	Tested with Committed Information Rates and Burst Sizes
204, 215	Tested with Σ Committed & Excess Information Rates up to 75% of EI Speed	-
204, 215	Tested with Σ Committed Information Rates up to 75% of EI Speed	Tested with Σ Committed Information Rates up to 95% of EI Speed
204, 215	Tested with Color Blind and Color Aware modes	Tested with Color Blind mode
204, 215	Tested with CF=0 and CF=1	Tested with CF=0
204, 215, 151, 174	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes	Tested with a range of IEEE 802.3 Ethernet frames up to 9000 Bytes
MEF 91/91.0.1 Index	L2CP Testing	L2CP Testing
164, 165, 181, 182	Tested with CTA, CTB and CTB-2 Address Sets	Tested with CTA, CTB and CTB-2 Address Sets
MEF 91/91.0.1 Index	SOAM Testing	SOAM Testing
199	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
199	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level
209, 220	Tested with Enabled and Disabled Subscriber MEG MIP and SP MEG MIP	Tested with Enabled and Disabled Subscriber MEG MIP and SP MEG MIP
MEF 91/91.0.1 Index	Performance Testing	Performance Testing
195	Tested with PT0.3 Performance Tier	Tested with PT 0.3 Performance Tier. (See note 2)
195	Tested with High, Medium and Low CoS Label & Parameter Values	Tested with High CoS Label & Parameter Values. (See note 2)
MEF 91/91.0.1 Index	Efficiency Testing	Efficiency Testing
204, 215, 152, 183, 189	-	Tested with information rate ≥ 99% of EI Speed, without bandwidth profile, using MFS-Byte frames, and FLR performance objective ≤ 0.001%
MEF 91/91.0.1 Index	Uptime Testing	Uptime Testing
195	-	(Note 3)
<p>Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.</p> <p>Note 2: New PTs &amp; associated CoS Labels &amp; Parameter Values being defined in MEF 23.3 may be added to the PTs and CoS Label &amp; Parameter Values available for CE for AI certification.</p> <p>Note 3: Availability testing may be added to CE for AI certification testing if the metric gets included part of the new PTs &amp; associated CoS Labels &amp; Parameter Values being defined in MEF 23.3.</p>		

Table 6: Access E-Line Business and AI Profiles for Technology Provider Certification

## 5. Transit E-Line Service - Business and AI Profiles

### 5.1 Service Provider Certification

Transit E-Line	CE for Business Certification	CE for AI Certification
Test Requirements	Business Profile	AI Profile <i>** Orange values are to be agreed within TCC</i>
MEF 91/91.0.1 Index	Functional Testing	Functional Testing
228	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
224, 240, 241, 243	Tested with one point-to-point OVC connecting two ENNIs	Tested with one point-to-point OVC connecting two ENNIs
238, 244	Tested with ENNI and OVC MFS $\geq$ 1526-Byte	Tested with ENNI and OVC MFS $\geq$ 9004-Byte
257	Tested with one of [Single, Bundled] S-VLAN ID at each ENNI	Tested with one of [Single, Bundled] S-VLAN ID at each ENNI
229	Tested with Tagged IEEE 802.3 frames	Tested with Tagged IEEE 802.3 frames
245	Tested with CE-VLAN ID preservation Preserved	Tested with CE-VLAN ID preservation Preserved
246	Tested with CoS ID preservation Enabled	Tested with CoS ID preservation Enabled
247	Tested with S-VLAN ID preservation Preserved	Tested with S-VLAN ID preservation Preserved
248	Tested with S-VLAN CoS (PCP) preservation Enabled	Tested with S-VLAN CoS (PCP) preservation Enabled
251	Tested with Unicast Unconditional Delivery	Tested with Unicast Unconditional Delivery
252	Tested with Multicast Unconditional Delivery	Tested with Multicast Unconditional Delivery
253	Tested with Broadcast Unconditional Delivery	Tested with Broadcast Unconditional Delivery
263	Tested with one of Source MAC Address Limit [Enabled, Disabled]	Tested with one of Source MAC Address Limit [Enabled, Disabled]
MEF 91/91.0.1 Index	Class of Service Testing	Class of Service Testing
258	Tested with one of [Single, Multiple] Classes of Service	Tested with one of [Single, Multiple] Classes of Service
258	Tested with PCP Class of Service Identifiers	Tested with PCP Class of Service Identifiers
260	Tested with one of [PCP, DEI] Color Identifiers	-
MEF 91/91.0.1 Index	Bandwidth Profile Testing	Bandwidth Profile Testing
225, 226	Tested with one BWP Flow per Envelope & Token Share Disabled	Tested with one BWP Flow per Envelope & Token Share Disabled
260	Tested with one of [Committed only, Committed + Excess] Information Rates and Burst Sizes. (See note 1)	Tested with Committed Information Rates and Burst Sizes
260	If Committed + Excess, tested with $\Sigma$ Committed & Excess Information Rates up to 75% of EI Speed	-
260	If Committed only, tested with $\Sigma$ Committed Information Rates up to 75% of EI Speed	Tested with $\Sigma$ Committed Information Rates up to 95% of EI Speed
260	Tested with one of [Color Blind, Color Aware] mode	Tested with Color Blind mode
260	Tested with one of [CF=0, CF=1]	Tested with CF=0
260, 229	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes	Tested with a range of IEEE 802.3 Ethernet frames up to 9000 Bytes
MEF 91/91.0.1 Index	L2CP Testing	L2CP Testing
236, 237	Tested with one of [CTB, CTB-2] Address Sets	Tested with one of [CTB, CTB-2] Address Sets
MEF 91/91.0.1 Index	SOAM Testing	SOAM Testing
254	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
254	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level
265	Tested with one of [Enabled, Disabled] SP MEG MIP	Tested with one of [Enabled, Disabled] SP MEG MIP
MEF 91/91.0.1 Index	Performance Testing	Performance Testing
250	Tested with one of [PT0.3, PT1, PT2, PT3, PT4, PT5] Performance Tier. (Note 2)	Tested with PT 0.3 Performance Tier. (Note 2)
250	Tested with at least one of [High, Medium, Low] CoS Label & Parameter values. (Note 2)	Tested with High CoS Label & Parameter values. (Note 2)
MEF 91/91.0.1 Index	Efficiency Testing	Efficiency Testing
260, 238, 244	-	Tested with information rate $\geq$ 99% of EI Speed, without bandwidth profile, using MFS-Byte frames, and FLR performance objective $\leq$ 0.001%
MEF 91/91.0.1 Index	Uptime Testing	Uptime Testing
250	-	(Note 3)

Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.  
Note 2: New PTs & associated CoS Labels & Parameter Values being defined in MEF 23.3 may be added to the PTs and CoS Label & Parameter Values available for CE for AI certification.  
Note 3: Availability testing may be added to CE for AI certification testing if the metric gets included part of the new PTs & associated CoS Labels & Parameter Values being defined in MEF 23.3.

Table 7: Transit E-Line Business and AI Profiles for Service Provider Certification

## 5.2 Technology Provider Certification

Transit E-Line	CE for Business Certification	CE for AI Certification
Test Requirements	Business Profile	AI Profile <i>** Orange values are to be agreed within TCC</i>
MEF 91/91.0.1 Index	Functional Testing	Functional Testing
228	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
224, 240, 241, 243	Tested with one <b>point-to-point OVC</b> connecting <b>two ENNs</b>	Tested with one <b>point-to-point OVC</b> connecting <b>two ENNs</b>
238, 244	Tested with ENNI and OVC MFS = 1526-Byte	Tested with ENNI and OVC MFS $\geq$ 9004-Byte
257	Tested with one <b>S-VLAN ID</b> at each ENNI	Tested with one <b>S-VLAN ID</b> at each ENNI
229	Tested with <b>Tagged</b> IEEE 802.3 frames	Tested with <b>Tagged</b> IEEE 802.3 frames
245	Tested with CE-VLAN ID preservation <b>Preserved</b>	Tested with CE-VLAN ID preservation <b>Preserved</b>
246	Tested with CoS ID preservation <b>Enabled</b>	Tested with CoS ID preservation <b>Enabled</b>
247	Tested with S-VLAN ID preservation <b>Preserved</b>	Tested with S-VLAN ID preservation <b>Preserved</b>
248	Tested with S-VLAN CoS (PCP) preservation <b>Enabled</b>	Tested with S-VLAN CoS (PCP) preservation <b>Enabled</b>
251	Tested with Unicast <b>Unconditional Delivery</b>	Tested with Unicast <b>Unconditional Delivery</b>
252	Tested with Multicast <b>Unconditional Delivery</b>	Tested with Multicast <b>Unconditional Delivery</b>
253	Tested with Broadcast <b>Unconditional Delivery</b>	Tested with Broadcast <b>Unconditional Delivery</b>
263	Tested with Source MAC Address Limit <b>Enabled and Disabled</b>	Tested with Source MAC Address Limit <b>Enabled and Disabled</b>
MEF 91/91.0.1 Index	Class of Service Testing	Class of Service Testing
258	Tested with <b>Single and Multiple</b> Classes of Service	Tested with <b>Single and Multiple</b> Classes of Service
258	Tested with <b>PCP</b> Class of Service Identifiers	Tested with <b>PCP</b> Class of Service Identifiers
260	Tested with <b>PCP and DEI</b> Color Identifiers	-
MEF 91/91.0.1 Index	Bandwidth Profile Testing	Bandwidth Profile Testing
225, 226	Tested with <b>one</b> BWP Flow per Envelope & Token Share <b>Disabled</b>	Tested with <b>one</b> BWP Flow per Envelope & Token Share <b>Disabled</b>
260	Tested with <b>Committed only and Committed + Excess</b> Information Rates and Burst Sizes. <i>(See note 1)</i>	Tested with <b>Committed</b> Information Rates and Burst Sizes
260	Tested with $\Sigma$ Committed & Excess Information Rates up to <b>75%</b> of EI Speed	-
260	Tested with $\Sigma$ Committed Information Rates up to <b>75%</b> of EI Speed	Tested with $\Sigma$ Committed Information Rates up to <b>95%</b> of EI Speed
260	Tested with <b>Color Blind</b> and <b>Color Aware</b> modes	Tested with <b>Color Blind</b> mode
260	Tested with <b>CF=0</b> and <b>CF=1</b>	Tested with <b>CF=0</b>
260, 229	Tested with a range of IEEE 802.3 Ethernet frames up to <b>1500</b> Bytes	Tested with a range of IEEE 802.3 Ethernet frames up to <b>9000</b> Bytes
MEF 91/91.0.1 Index	L2CP Testing	L2CP Testing
236, 237	Tested with <b>CTB and CTB-2</b> Address Sets	Tested with <b>CTB and CTB-2</b> Address Sets
MEF 91/91.0.1 Index	SOAM Testing	SOAM Testing
254	Tested for transparency with <b>CCM, LBM, LBR, LTM and LTR</b> SOAM PDUs	Tested for transparency with <b>CCM, LBM, LBR, LTM and LTR</b> SOAM PDUs
254	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level	Tested with one of [0, 1, 2, 3, 4, 5, 6, 7, None] OVC Available MEG Level
265	Tested with one of [ <b>Enabled, Disabled</b> ] MIP	Tested with one of [ <b>Enabled, Disabled</b> ] MIP
MEF 91/91.0.1 Index	Performance Testing	Performance Testing
250	Tested with <b>PT0.3</b> Performance Tier	Tested with <b>PT 0.3</b> Performance Tier. <i>(See note 2)</i>
250	Tested with <b>High, Medium and Low</b> CoS Label & Parameter Values	Tested with <b>High</b> CoS Label & Parameter Values. <i>(See note 2)</i>
MEF 91/91.0.1 Index	Efficiency Testing	Efficiency Testing
260, 238, 244	-	<b>Tested with information rate <math>\geq</math> 99% of EI Speed, without bandwidth profile, using MFS-Byte frames, and FLR performance objective <math>\leq</math> 0.001%</b>
MEF 91/91.0.1 Index	Uptime Testing	Uptime Testing
250	-	<i>(Note 3)</i>
<p>Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.</p> <p>Note 2: New PTs &amp; associated CoS Labels &amp; Parameter Values being defined in MEF 23.3 may be added to the PTs and CoS Label &amp; Parameter Values available for CE for AI certification.</p> <p>Note 3: Availability testing may be added to CE for AI certification testing if the metric gets included part of the new PTs &amp; associated CoS Labels &amp; Parameter Values being defined in MEF 23.3.</p>		

Table 8: Transit E-Line Business and AI Profiles for Technology Provider Certification

## 6. E-LAN Service - Business Profile

### 6.1 Service Provider Certification

E-LAN	CE for Business Certification
Test Requirements	Business Profile
MEF 91/91.0.1 Index	Functional Testing
50	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
59, 86, 88, 89	Tested with one multipoint-to-multipoint EVC connecting three UNIs
55, 96	Tested with UNI and EVC MFS $\geq$ 1522-Byte
57, 58, 60, 61	Tested with one of [All, List, UT/PT] mappings
54	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames
93	Tested with one of CE-VLAN ID preservation [Enabled, Disabled]
94	Tested with one of CoS ID preservation [Enabled, Disabled]
90	Tested with one of Unicast Delivery [Unconditional, Conditional]
91	Tested with one of Multicast Delivery [Unconditional, Conditional, Discard]
92	Tested with one of Broadcast Delivery [Unconditional, Conditional, Discard]
83	Tested with one of Source MAC Address Limit [Enabled, Disabled]
MEF 91/91.0.1 Index	Class of Service Testing
72, 73, 74, 76, 77, 78	Tested with one of [Single, Multiple] Classes of Service
72, 73, 74, 76, 77, 78	Tested with one of [EVC EP, PCP, IP/DSCP] Class of Service Identifiers
75, 81, 82	Tested with one of [PCP, DEI, IP/DSCP] Color Identifiers
MEF 91/91.0.1 Index	Bandwidth Profile Testing
62, 63	Tested with one BWP Flow per Envelope & Token Share Disabled
81, 82	Tested with one of [Committed only, Committed + Excess] Information Rates and Burst Sizes. (See note 1)
81, 82	If Committed + Excess, tested with $\Sigma$ Committed & Excess Information Rates up to 75% of EI Speed
81, 82	If Committed only, tested with $\Sigma$ Committed Information Rates up to 75% of EI Speed
81, 82	Tested with one of [Color Blind, Color Aware] mode
81, 82	Tested with one of [CF=0, CF=1]
81, 82, 54	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes
MEF 91/91.0.1 Index	L2CP Testing
69, 70	Tested with one of [CTA, CTB, CTB-2] Address Sets
MEF 91/91.0.1 Index	SOAM Testing
85	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
85	Tested with one of [Enabled, Disabled] Subscriber MEG MIP
MEF 91/91.0.1 Index	Performance Testing
95	Tested with one of [PT0.3, PT1, PT2, PT3, PT4, PT5] Performance Tier
95	Tested with at least one of [High, Medium, Low] CoS Label & Parameter values
Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.	

Table 9: E-LAN Business Profile for Service Provider Certification

## 6.2 Technology Provider Certification

E-LAN	CE for Business Certification
Test Requirements	Business Profile
MEF 91/91.0.1 Index	Functional Testing
50	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
59, 86, 88, 89	Tested with one multipoint-to-multipoint EVC connecting three UNIs
55, 96	Tested with UNI and EVC MFS = 1522-Byte
57, 58, 60, 61	Tested with All, List and UT/PT mappings
54	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames
93	Tested with CE-VLAN ID preservation [Enabled and Disabled]
94	Tested with CoS ID preservation [Enabled and Disabled]
90	Tested with Unicast Delivery Unconditional
91	Tested with Multicast Delivery Unconditional, Conditional and Discard
92	Tested with Broadcast Delivery Unconditional, Conditional and Discard
83	Tested with Source MAC Address Limit Enabled and Disabled
MEF 91/91.0.1 Index	Class of Service Testing
72, 73, 74, 76, 77, 78	Tested with Single and Multiple Classes of Service
72, 73, 74, 76, 77, 78	Tested with EVC EP, PCP and IP/DSCP Class of Service Identifiers
75, 81, 82	Tested with PCP, DEI and IP/DSCP Color Identifiers
MEF 91/91.0.1 Index	Bandwidth Profile Testing
62, 63	Tested with one BWP Flow per Envelope & Token Share Disabled
81, 82	Tested with Committed only and Committed + Excess Information Rates and Burst Sizes. (See note 1)
81, 82	Tested with $\Sigma$ Committed & Excess Information Rates up to 75% of EI Speed
81, 82	Tested with $\Sigma$ Committed Information Rates up to 75% of EI Speed
81, 82	Tested with Color Blind and Color Aware modes
81, 82	Tested with CF=0 and CF=1
81, 82, 54	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes
MEF 91/91.0.1 Index	L2CP Testing
69, 70	Tested with CTA, CTB and CTB-2 Address Sets
MEF 91/91.0.1 Index	SOAM Testing
85	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
85	Tested with Subscriber MEG MIP Enabled and Disabled
MEF 91/91.0.1 Index	Performance Testing
95	Tested with PT0.3 Performance Tier
95	Tested with High, Medium and Low CoS Label
Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.	

Table 10: E-LAN Business Profile for Technology Provider Certification

## 7. E-Tree Service - Business Profile

### 7.1 Service Provider Certification

E-Tree	CE for Business Certification
Test Requirements	Business Profile
MEF 91/91.0.1 Index	Functional Testing
98	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
107, 134, 136, 137	Tested with one rooted-multipoint EVC connecting three UNIs (one root and two leaves)
103, 144	Tested with UNI and EVC MFS $\geq$ 1522-Byte
105, 106, 108, 109	Tested with one of [All, List, UT/PT] mappings
102	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames
141	Tested with one of CE-VLAN ID preservation [Enabled, Disabled]
142	Tested with one of CoS ID preservation [Enabled, Disabled]
138	Tested with one of Unicast Delivery [Unconditional, Conditional]
139	Tested with one of Multicast Delivery [Unconditional, Conditional, Discard]
140	Tested with one of Broadcast Delivery [Unconditional, Conditional, Discard]
131	Tested with one of Source MAC Address Limit [Enabled, Disabled]
MEF 91/91.0.1 Index	Class of Service Testing
120, 121, 122, 124, 125, 126	Tested with one of [Single, Multiple] Classes of Service
120, 121, 122, 124, 125, 126	Tested with one of [EVC EP, PCP, IP/DSCP] Class of Service Identifiers
123, 129, 130	Tested with one of [PCP, DEI, IP/DSCP] Color Identifiers
MEF 91/91.0.1 Index	Bandwidth Profile Testing
110, 111	Tested with one BWP Flow per Envelope & Token Share Disabled
129, 130	Tested with one of [Committed only, Committed + Excess] Information Rates and Burst Sizes. (See note 1)
129, 130	If Committed + Excess, tested with $\Sigma$ Committed & Excess Information Rates up to 75% of EI Speed
129, 130	If Committed only, tested with $\Sigma$ Committed Information Rates up to 75% of EI Speed
129, 130	Tested with one of [Color Blind, Color Aware] mode
129, 130	Tested with one of [CF=0, CF=1]
129, 130, 102	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes
MEF 91/91.0.1 Index	L2CP Testing
117, 118	Tested with one of [CTA, CTB, CTB-2] Address Sets
MEF 91/91.0.1 Index	SOAM Testing
133	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
133	Tested with one of [Enabled, Disabled] Subscriber MEG MIP
MEF 91/91.0.1 Index	Performance Testing
143	Tested with one of [PT0.3, PT1, PT2, PT3, PT4, PT5] Performance Tier.
143	Tested with at least one of [High, Medium, Low] CoS Label & Parameter values.
Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.	

Table 11: E-Tree Business Profile for Service Provider Certification

## 7.2 Technology Provider Certification

E-Tree	CE for Business Certification
Test Requirements	Business Profile
MEF 91/91.0.1 Index	Functional Testing
98	Tested with one of [1 Gbps, 10 Gbps, 100 Gbps] Physical Layer
107, 134, 136, 137	Tested with one rooted-multipoint EVC connecting three UNIs (one root and two leaves)
103, 144	Tested with UNI and EVC MFS = 1522-Byte
105, 106, 108, 109	Tested with All, List and UT/PT mappings
102	Tested with Tagged, Untagged and Priority Tagged IEEE 802.3 frames
141	Tested with CE-VLAN ID preservation [Enabled and Disabled]
142	Tested with CoS ID preservation [Enabled and Disabled]
138	Tested with Unicast Delivery Unconditional
139	Tested with Multicast Delivery Unconditional, Conditional and Discard
140	Tested with Broadcast Delivery Unconditional, Conditional and Discard
131	Tested with Source MAC Address Limit Enabled and Disabled
MEF 91/91.0.1 Index	Class of Service Testing
72, 73, 74, 76, 77, 78	Tested with Single and Multiple Classes of Service
72, 73, 74, 76, 77, 78	Tested with EVC EP, PCP and IP/DSCP Class of Service Identifiers
75, 129, 130	Tested with PCP, DEI and IP/DSCP Color Identifiers
MEF 91/91.0.1 Index	Bandwidth Profile Testing
62, 63	Tested with one BWP Flow per Envelope & Token Share Disabled
81, 82	Tested with Committed only and Committed + Excess Information Rates and Burst Sizes. (See note 1)
81, 82	Tested with $\Sigma$ Committed & Excess Information Rates up to 75% of EI Speed
81, 82	Tested with $\Sigma$ Committed Information Rates up to 75% of EI Speed
81, 82	Tested with Color Blind and Color Aware modes
81, 82	Tested with CF=0 and CF=1
81, 82, 54	Tested with a range of IEEE 802.3 Ethernet frames up to 1500 Bytes
MEF 91/91.0.1 Index	L2CP Testing
69, 70	Tested with CTA, CTB and CTB-2 Address Sets
MEF 91/91.0.1 Index	SOAM Testing
85	Tested for transparency with CCM, LBM, LBR, LTM and LTR SOAM PDUs
85	Tested with Subscriber MEG MIP Enabled and Disabled
MEF 91/91.0.1 Index	Performance Testing
95	Tested with PT0.3 Performance Tier
95	Tested with High, Medium and Low CoS Label
Note 1: CBS values are implementation-specific. Values greater than 8 x EVC MFS are used for CE for Business certification.	

Table 12: E-Tree Business Profile for Technology Provider Certification



Testing Guide: Carrier Ethernet Certification Blueprint

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