



MEF 80.0.1 Draft (R1)

Amendment to MEF 80: Quote Management Requirements and Use Cases

January 2025

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1 List of Contributing Members

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

2 Abstract

This amendment to MEF 80 [4] updates changes to how a Place is reflected from MEF W150 [6] and the variables for the Duration attribute from MEF 110 [5].

3 Release Notes

This document is in its final release and is subject to technical changes until that review is completed.

4 Terminology and Abbreviations

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

Term	Definition	Reference

Table 1 – Terminology

Abbreviation	Definition	Reference

Table 2 – Abbreviations

5 Compliance Levels

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

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

Editor Note 1: The following paragraph will be deleted if no conditional requirements are used in the document.

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

6 Introduction

This amendment updates MEF 80 [4] with changes to Place and Duration that have been made in MEF 150 [6] and MEF W110 [5]. The definition of Place has been replaced by Installation Place as defined in MEF 150 [6]. Installation Place has a mandatory Identifier and with representations that provide values in the event that the Buyer does not have the Installation Place Identifier.

In addition, the variables for the Duration attribute have been streamlined, reducing duplication between Business and Calendar where possible. These updated variables are shown within this amendment.

In this amendment, changes are shown as follows:

- Instructions for how to apply the amendment are shown in *blue italics*
- In content modified by the amendment, text to be removed is shown with ~~red strikethrough~~
- In content modified by the amendment, text to be added is shown in **red**

7 Changes to Place in Table 24 of MEF 80

The changes to MEF 80 [4] Table 24 and how it aligns with MEF 150 [6] are shown within this section.

Replace Table 24 with Table A1-1 and text as shown.

~~Table 24 shows Place Relationship Attributes.~~

Table A1-1 shows the Place Relationship Attributes.

Attribute	Description	Type	Comments
Role	The role of the place as specified in the Product Specification	String	Set by the Buyer as defined by the Seller in the Product Specification
Quote Item Location Type	The method used to describe the location at which this Quote Item is installed or is to be installed if needed per the Product Specification.	List that is one of: <ul style="list-style-type: none"> • Service Site Identifier • Installation Place Identifier • Installation Place Representation 	The Buyer is encouraged to use the Seller’s Service Site Identifier if one exists. If one does not exist, then the Buyer may use any other Quote Item Location Types.
Quote Item Location	The detailed location at which this Quote Item is installed or is to be installed if this Quote Item is to be installed at a particular location.	One of: <ul style="list-style-type: none"> • Service Site Identifier (see MEF 150 [6] sec 7.4) • Installation Place Identifier (see MEF 150 [6] sec 7.1.2) Or one or more of: <ul style="list-style-type: none"> • Installation Place Fielded Address 	

Attribute	Description	Type	Comments
		Representation (see MEF 150 [6] sec 7.1.1.1.1) • Installation Place Formatted Address Representation (see MEF 150 [6] sec 7.1.1.1.2) • Installation Place Label Representation (see MEF 150 [6] sec 7.1.1.1.3) • Installation Place Geographic Point Representation (see MEF 150 [6] sec 7.1.1.1.4)	
Quote Item Place Sub Units	A list of zero or more sub units included within the boundary of the Installation Place for this Quote Item.	See MEF 150 Table 4 for details	
Quote Item Place Contact	The contact information for a specific contact role.	See Table 21 for details.	

Table A1-1 – Place Relationship Attributes

Replace R23 with the requirements as shown below.

[A1-R1] For each Product Order Item that refers to a Product Offering for which a location is required by the Product Specification, the Buyer Create Product Order request **MUST** include all the following attributes for each specified location:

- Role
- Quote Item Location Type
- Quote Item Location

[A1-O1] If a Quote Item refers to a Product Offering for which a location is required by the Product Specification, the Buyer Create Quote request **MAY** include the following attribute:

- Quote Item Place Contact (Deferred Response only)

[A1-R2] If a Quote Item refers to a Product Offering for which a location is required by the Product Specification, the Buyer Create Quote request **MUST NOT** include the following attributes if the Installation Place Type is Service Site Identifier:

- Quote Item Place Sub Unit List

Replace Table 15 in MEF 80 [4] with Table A1-2.

~~Table 15 shows Quote Item attributes.~~

Table A1-2 shows Quote Item attributes.

Attribute	Description	Type	Comments
Quote Item Reference Number	A Buyer provided identifier to identify Quote Items and to be able to relate them to one another.	String	This is set by the Buyer and is unique per Quote request. Examples of Quote Item Reference Number could be 1, 2, 3 or A, B, C. The Quote Item Reference Number can be reused in multiple Quote requests to identify a Quote Item within that Quote request.
Quote Item Product Action	Product action to be applied to this Quote Item.	String that is one of <ul style="list-style-type: none"> • INSTALL • CHANGE • DISCONNECT 	Set by the Buyer
Requested Quote Item Term	The terms of the Quote Item	Reference to a Quote Item Term	Set by the Buyer. Used to describe a term (also known as commitment) as requested by the Buyer

Attribute	Description	Type	Comments
			for a Quote Item. Each Quote Item in a Quote request could have a different Requested Quote Item Term. The Buyer specifies the longest term that they would accept. The Buyer may be willing to accept a shorter term. If the Seller responds with a term longer than the Buyer's request, it is treated as an alternate response.
Requested Quote Item Installation Interval	The Installation Interval requested by the Buyer.	Reference to Duration	Set by the Buyer. This matches the Installation Interval Unit and Value returned by the Seller in the POQ and is defined in MEF 79.1
Product Identifier	The Buyer's existing Product for which the Quote is being requested.	String	Set by the Buyer if the Quote Item Product Action is CHANGE or DISCONNECT.
Product Offering Identifier	The identifier of the Product Offering the buyer wants to have a Quote on from the Seller for ordering a new product.	String	Set by the Buyer if the Quote Item Product Action is INSTALL.
Product Specific Attributes	The technical attributes for the Product that would be delivered to fulfill this Quote Item. This essentially specifies the values for attributes defined in the Product Specification. The detail of the Product Specification is for further study.		For further study.

Attribute	Description	Type	Comments
Subject to Feasibility Check	For a Firm Quote Level indicates if the pricing requires a Feasibility Check.	Boolean	The Seller indicates if the Quote Item requires a Feasibility Check. This is not used for a Budgetary Quote Level.
Place Relationship	The relationship between this Quote Item and Place	List of Reference to Place Relationship	Set by the Buyer. A list of Places. If the Product Specification does not include a Place, this is unused.
Quote Item Technical Contact	The person to contact when additional technical information is needed in order to be able to provide a correct Quote for the Quote Item.	List of Reference to Contact Information	Set by Buyer
Quote Item Relationship	The relationship between Quote Items within the same Quote. Shown as a list.	List of Reference to Quote Item Relationship	Set by Buyer
Product Relationship	The relationship between a Quote Item and an existing Product is shown as a list.	List of Reference to Product Relationship	Set by Buyer
Quote Item Note	A set of unstructured comments or information associated to the Quote Item. This can be empty.	List of Reference to a Quote Item Note	The notes may be defined by the Buyer or Seller
Agreement	Name of the agreement. The name is unique between the Buyer and Seller.	String	Set by the Buyer. Agreement is a unique method of identifying a contract, service description, or other identifier.
POQ	The Product Offering Qualification and Product Offering Qualification Item associated to this Quote Item.	Reference to a POQ	Set by the Buyer. The POQ Item may be required by the Seller. In that case, this is a mandatory field. If the Seller does not require the POQ, then this is an optional attribute.
Quote Item State	The state of the Quote Item	One of <ul style="list-style-type: none"> • ABANDONE D 	Set by the Seller.

Attribute	Description	Type	Comments
		<ul style="list-style-type: none"> • ANSWERED • IN_PROGRESS • IN_PROGRESS_DRAFT • ORDERABLE • ORDERABLE_ALTERNATE • REJECTED • UNABLE_TO_PROVIDE 	
Quote Item Price	Price associated to the Quote Item.	List of Quote Item Prices	Set by Seller
Quote Item Term	Quote Item Term as defined by the Seller and part of the Quote for the Quote Item.	Reference to Quote Item Term	Set by Seller
Quote Item Deal Reference	A pre-agreed pricing modifier reference that the Seller is offering to the Buyer which will impact the price	String	Set by Buyer
Quote Item Installation Interval	Quote Item Installation Interval as proposed by the Seller for the Quote.	Reference to Duration	Set by Seller. To move the Quote request to the ORDERABLE state, the installation interval must be \leq the Requested Quote Item Installation Interval set by the Buyer. If the Seller returns a value $>$ the Requested Quote Item Installation Interval, the Quote moves to the ORDERABLE_ALTERNATE state.
Quote Item Termination Error	When the Seller cannot process the Quote Item Request, the Seller returns a text-based list of reasons here.	List of String	Set by the Seller. Reasons are for further study.

Table A1-2 Quote Item Attributes

8 Changes to Duration Attribute Variables in Table 26 of MEF 80

The changes to the Duration attribute variables in MEF 80 [4] Table 26 are shown in this section.

Replace Table 26 in MEF 80 [4] with Table and replace text with introductory text shown below.

~~Table 28 shows the attributes for Duration.~~

Table A1-2 shows the attributes for Duration.

Attribute	Description	Type	Comments
Duration Unit	The unit of the duration.	String one of the following: <ul style="list-style-type: none"> • SECONDS • MINUTES • CALENDAR_HOURS • BUSINESS_HOURS • CALENDAR_DAYS • BUSINESS_DAYS • MONTHS • YEARS 	
Duration Value	The value of the duration.	Number	

Table A1-3 – Duration Attributes

9 References

- [1] IETF RFC 2119, *Key words for use in RFCs to Indicate Requirement Levels*, by Scott Bradner, March 1997
- [2] IETF RFC 8174, *Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words*, by B Leiba, May 2017, Copyright © 2017 IETF Trust and the persons identified as the document authors. All rights reserved.
- [3] MEF W79.1, *Product Offering Qualification Business Requirements and Use Cases*, October 2023
- [4] MEF 80, *Quote Management Requirements and Use Cases*, July 2021
- [5] MEF W110, *Product Offering Availability and Pricing Discovery - Business Requirements and Use Cases*, May 2024
- [6] MEF W150, *Installation Place and Service Site Management Business Requirements and Use Cases*, January 2024

Appendix A Acknowledgements (Informative)

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

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