

LSO Cantata SDK

The **LSO Cantata SDK** is the complete set of deliverables developed by the MEF membership in order to

1. Enable market adoption of LSO Cantata APIs in the current release of the LSO API Framework.
2. Support of development of additional features for the upcoming release of the LSO Cantata SDK.

The latest release of LSO Cantata SDK is in the LSO API Release '**Grace**' and is available on GitHub (see *Latest Release* section for details).

Any MEF member can participate in the development of each new release of the LSO Cantata SDK:

- Contact the LSO Developer Community Manager ([Micha czyski](#)) either via GitHub or by [email](#) to let him know of your interest and to ask questions

Table of Contents

- [MEF-LSO-Cantata-SDK - Fergie Release](#)
 - [Download Link](#)
 - [Introduction](#)
 - [High-level release notes](#)
 - [Maturity Level](#)
 - [Contents](#)
 - [Issues, Questions, and Feedback](#)
- [LSO Cantata SDK Grace \(Production\)](#)
- [LSO Sonata SDK Haley \(Planned: June 2024\)](#)
- [LSO Cantata SDK Irene \(Planned: December 2024\)](#)
- [LSO Cantata SDK Janis \(Planned: June 2025\)](#)
- [LSO Cantata SDK Fergie](#)
- [LSO Cantata SDK Ella](#)
- [LSO Cantata SDK Dolly](#)
- [LSO Cantata SDK Celine \(January 14th, 2022\)](#)
- [LSO Cantata SDK Billie \(3rd June 2021\)](#)
- [LSO Cantata SDK Aretha](#)

Latest Release

MEF-LSO-Cantata-SDK - Fergie Release

Download Link

Download the entire repository by clicking [here](#)

Introduction

This repository contains the MEF LSO Cantata SDK. It includes API definitions for the following functional areas:

- Product Catalog
- Serviceability
 - Address Validation
 - Site Retrieval
 - Product Offering Qualification Management
- Product Offering Availability and Pricing Discovery
- Product Quote
- Product Order
- Product Inventory
- Trouble Ticket
 - Appointment
 - Work Order

It also provides Product Schemas for:

Status

PUBLIC

LSO Developer Community

[LSO Cantata SDK Community](#)

[LSO Developer Community Home Page](#)

LSO Developer Community

Manager

[Micha czyski](#)

Contact: community_manager@mef.net

LSO Legato SDK @ GitHub

Core (public):

<https://github.com/MEF-GIT/MEF-LSO-Cantata-SDK>

Extensions (MEF Members only):

<https://github.com/MEF-GIT/MEF-LSO-Cantata-SDK-extended>



If you are a MEF Member, update your wiki profile with your GitHub account name. Access to the LSO Cantata SDK Extensions repository is periodically updated with provided GitHub accounts. Additionally contact the LSO Developer Community Manager to request the immediate access.

Core Contributors

[Karthik Sethuraman](#)

[Jack Pugaczewski](#)



Are you a core contributor to this LSO SDK but not mentioned here? Please let the LSO Developer Community Manager know and we will add you!

- Access E-Line
- Subscriber Carrier Ethernet (EPL, EPLAN, EPTREE, EVPL, EVPLAN, EVPTRREE)
- Internet Access

High-level release notes

No new APIs were introduced.

There are the following document maturity changes:

- Documents published as MEF Standards:
 - MEF 123 - LSO Cantata and LSO Sonata Product Order Management API - Developer Guide
 - MEF 124 - LSO Cantata and LSO Sonata Trouble Ticket and Incident Management API - Developer Guide
 - MEF 137 - LSO Cantata and LSO Sonata Appointment Management API - Developer Guide
 - MEF 134 - Billing and Invoice Business Requirements and Use Cases
- The following documents have their Letter Ballots open and will be likely shortly published as MEF standards:
 - MEF W125.0.1 - Subscriber Ethernet Schemas and Product Schema Guide - Amendment (examples)
 - MEF W139 - Internet Access Product Schemas and Developer Guide
 - MEF W141 - LSO Cantata and LSO Sonata Billing Management API - Developer Guide
- Updated documents:
 - MEF W127 - LSO Cantata and LSO Sonata Product Catalog - Business Requirements and Use Cases
 - MEF W142 - LSO Cantata and LSO Sonata Product Catalog API & Developer Guide
 - MEF W110 - Product Offering Availability and Pricing Discovery - Business Requirements and Use Cases
 - MEF W160 - LSO Cantata and LSO Sonata Product Offering Availability and Pricing Discovery API - Developer Guide
 - MEF W128.1 - LSO API Security Profile
- New documents:
 - MEF 55.1.1 Amendment to MEF 55.1: Reference Architecture and Framework - Terminology

The [LSO Marketplace](#) offers the possibility to blend the desired APIs with chosen Products. Thus the APIs blended with all products that were available in `generated/staticBinding` are no longer provided.

NOTE: Please note the Readme files in particular productApi directories to see detailed release notes per API.

Maturity Level

The API files contained in this SDK are evolving and subject to change. They are based on documents that are either ratified standards or draft standards that have not yet completed the review cycles and approvals necessary to achieve the status as a MEF standard. MEF is making these publicly available at this time to invite wider industry review.

The maturity per functionality is presented as follows:

(*) is used to mark an item that changes their maturity compared to previous release.

- Product Catalog:
 - Business Requirements:
 - *MEF W127 - **Draft Standard R2**
 - Developer Guide/API:
 - *MEF W142 - **work in progress - ready for CfC#2**
- Address Validation, Site Query:
 - Business Requirements:
 - MEF 79 - **Published Standard**
 - MEF 79.0.2 - **Published Standard**
 - Developer Guide/API:
 - MEF 121 - Address Management - **Published Standard**
 - MEF 122 - Site Management - **Published Standard**
- Product Offering Qualification:
 - Business Requirements:
 - MEF 79 - **Published Standard**
 - MEF 79.0.1 - **Published Standard**
 - Developer Guide/API:
 - MEF 87 - **Published Standard**
- Quote:
 - Business Requirements:
 - MEF 80 - **Published Standard**
 - Developer Guide/API:
 - MEF 115: - **Published Standard**
- Product Offering Availability and Pricing Discovery:
 - Business Requirements:
 - MEF *W110 - **Draft Standard R2**
 - Developer Guide/API:
 - MEF *W160: - **work in progress - ready for CfC#2**
- Order:
 - Business Requirements:
 - MEF 57.2 - **Published Standard**
 - Developer Guide/API:
 - MEF 123 - **Published Standard**
- Inventory:
 - Business Requirements:
 - MEF 81, MEF 81.0.1 - **Published Standard**
 - Developer Guide/API:
 - MEF 116 - **Published Standard**
- Trouble Ticket:
 - Business Requirements:
 - MEF 113 - **Published Standard**
 - Developer Guide/API:
 - MEF 124 - Trouble Ticket - **Published Standard**
 - MEF 137 - Appointment - **Published Standard**
- Billing:
 - Business Requirements:
 - MEF 134 - **Published Standard**
 - Developer Guide/API:
 - MEF 141 - **Published Standard**
- Product Specifications:
 - MEF 125 - Subscriber Ethernet (EPL, EPLAN, EPTREE, EVPL, EVPLAN, EVPTREE) - **Published Standard**
 - *MEF 125.0.1 - Amendment to Subscriber Ethernet - **Published Standard**
 - *MEF W139 - Basic and Advanced Internet Access - **Letter Ballot**
- Security:
 - MEF 128 - **Published Standard**
 - *MEF W128.1 - **work in progress - Letter Ballot ready**

For high-level information about the release compatibility and roadmap please visit: [LSO Marketplace](#)

For details on the maturity map and the roadmap for future releases please refer to [LSO Cantata SDK Home Page](#) on the MEF WIKI.

Contents

This SDK contains the following items:

- COPYRIGHT - Copyright 2022 MEF Forum
- LICENSE - Contains a copy of the Apache 2.0 license
- README - This file
- productApi - Definitions of the APIs - yaml files with schemas
- documentation - All related standards and Developer Guides
 - productApi - API related documentation - API Developer Guides
 - productSchema - Product related documentation - Product schema guides
 - supportingStandards - The rest of the documents and standards.
- ProductSchema - Product Specification schemas
- generated
 - staticBinding - No longer provided - please visit [LSO Marketplace](#) to use self-blending possibility.
 - security - A not normative version of the standard APIs including the security profiles as required by MEF 128.1. Provided for evaluation.

Issues, Questions, and Feedback

Issues should be reported with the use of GitHub issues. Questions and feedback should be asked either at [Cantata SDK Discussions](#) or directly to community_manager@mef.net.

NOTE: All artifacts included in this repository have line numbers. When referring to specific content in any of these artifacts, please quote the line numbers to which you are referring.

The MEF LSO Cantata SDK is released under the Apache 2.0 license.

LSO Cantata SDK Releases

BR&UC - Business Requirements & Use Cases

Underlined item indicates a release deliverable that is a delta from the previous SDK release.

Published standard	Draft standard (or at least 1 CfC resolved)	Work in progress
--------------------	--	------------------

LSO Cantata SDK Grace (Production)

Git Tag: [grace](#)

Date: 20th December 2023

Function	BR&UC	API and Developer Guide
Address Validation	MEF 79 MEF 79.0.2	MEF 121
Site Query	MEF 79	MEF 122
Product Offering Qualification (POQ)	MEF 79 MEF 79.0.1	MEF 87
Quoting	MEF 80	MEF 115
Product Inventory	MEF 81 MEF 81.0.1	MEF 116
Product Order	MEF 57.2	MEF 123
Trouble Ticketing	MEF 113	MEF 124 Trouble Ticket MEF 137 Appointment
Product Catalog	<u>MEF W127 Draft Standard (R2)</u>	<u>MEF W142 (CfC#2 Ready)</u>
Billing	MEF 134	MEF 141
Product Offering Availability and Pricing Discovery	<u>MEF W110 Draft Standard (R2)</u>	<u>MEF W160 (CfC#2 Ready)</u>
Test Requirements	MEF W92.1 Draft Standard (R3)	
Security	MEF 128 MEF W128.1 CfC#2	
Product Schemas	Schema Guide	
Subscriber Ethernet	<u>MEF 125.0.1 (LB)</u>	
Internet Access	<u>MEF 139 (LB)</u>	

Release Grace Deliverables

Deliverable	Maturity
MEF W141 Billing API + Dev Guide	Published Standard
MEF W125.0.1 - Subscriber Ethernet Schemas and Product Schema Guide - Amendment (examples)	LB
MEF W139 Internet Access Product	LB
MEF W127 Product Catalog	Draft Standard (R2)
MEF W110 Product Offering Availability and Pricing Discovery	Draft Standard (R2)
MEF W142 Product Catalog API + Dev Guide	CfC#2 Ready
MEF W160 Product Offering Availability and Pricing Discovery API + Dev Guide	CfC#2 Ready

LSO Sonata SDK Haley (Planned: June 2024)

Function	BR&UC	API and Developer Guide
Address Validation	<u>MEF 150 Draft Standard (R1)</u>	MEF 121
Site Query	<u>MEF 150 Draft Standard (R1)</u>	MEF 122
Product Offering Qualification (POQ)	<u>MEF 79.1 Draft Standard (R1)</u>	MEF 87
Quoting	MEF 80	MEF 115
Product Inventory	MEF 81 MEF 81.0.1	MEF 116
Product Order	MEF 57.2	MEF 123
Trouble Ticketing	MEF 113	MEF 124 Trouble Ticket MEF 137 Appointment
Product Catalog	<u>MEF 127</u>	MEF W142 (CfC#2)
Billing	MEF 134	MEF 141
Product Offering Availability and Pricing Discovery	<u>MEF W110 Draft Standard (R4)</u>	<u>MEF W160 (CfC#3 Ready)</u>
Test Requirements	MEF W92.1 Draft Standard (R3)	
Security	MEF 128.1	
Product Schemas	Schema Guide	
Subscriber Ethernet	MEF 125.0.1	
Internet Access	MEF 139	

Release Haley Deliverables

Deliverable	Maturity
MEF W127 Product Catalog	Standard
MEF 110 Product Offering Availability and Pricing Discovery	Draft Standard (R4)
MEF W142 Product Catalog API + Dev Guide	CfC#2
MEF W79.1 POQ	Draft Standard (R1)
MEF W150 Address, Site	Draft Standard (R1)
MEF W160 Product Offering Availability and Pricing Discovery API + Dev Guide	CfC#3 Ready

LSO Cantata SDK Irene (Planned: December 2024)

Function	BR&UC	API and Developer Guide
Address Validation	MEF W150 (LB)	MEF 121 MEF W121.1 (CFC#1 Ready)
Site Query	MEF W150 (LB)	MEF 122 MEF W122.1 (CFC#1 Ready)
Product Offering Qualification (POQ)	MEF W79.1 (LB)	MEF 87 MEF W87.1 (CFC#1 Ready)
Quoting	MEF 80	MEF 115 MEF W115.1 (CFC#1 Ready)
Product Inventory	MEF 81 MEF 81.0.1	MEF 116 MEF W116.1 (CFC#1 Ready)
Product Order	MEF 57.2	MEF 123 MEF W123.1 (CFC#1 Ready)
Trouble Ticketing	MEF 113	MEF 124 Trouble Ticket MEF W124.1 (CFC#1 Ready) MEF 137 Appointment MEF W137.1 (CFC#1 Ready)
Product Catalog	MEF 127	MEF W142 (LB)
Billing	MEF 134	MEF W141 MEF W141.1 (CFC#1 Ready)
Product Offering Availability and Pricing Discovery	MEF 110	MEF W160 (LB)
Test Requirements	MEF W92.1 Draft Standard (R3)	
Security	MEF 128.1	
Product Schemas	Schema Guide	
Access E-Line	MEF 106	
Subscriber Ethernet	MEF 125.0.1	
Internet Access	MEF 139	

Release Irene Deliverables

Deliverable	Maturity
MEF W79.1 POQ	LB
MEF W150 Address, Site	LB
MEF W142 Product Catalog API + Dev Guide	LB
MEF W160 Product Offering Availability and Pricing Discovery API + Dev Guide	LB
MEF W87.1 POQ Dev Guide + API	CfC#1 Ready
MEF W115.1 Quote Dev Guide+API	CfC#1 Ready
MEF W116.1 Inventory DevGuide+API	CfC#1 Ready
MEF W121.1 Address Dev Guide + API	CfC#1 Ready
MEF W122.1 Site Dev Guide + API	CfC#1 Ready
MEF W123.1 Product Order Dev Guide + API	CfC#1 Ready
MEF W124.1 Trouble Ticket Dev Guide + API	CfC#1 Ready
MEF W137.1 Appointment Dev Guide + API	CfC#1 Ready
MEF W141.1 Billing Dev Guide + API	CfC#1 Ready

LSO Cantata SDK Janis (Planned: June 2025)

Function	BR&UC	API and Developer Guide
Address Validation	MEF 150	MEF W121.1 (LB)
Site Query	MEF 150	MEF W122.1 (LB)
Product Offering Qualification (POQ)	MEF 79.1	MEF W87.1 (LB)
Quoting	MEF 80	MEF W115.1 (LB)
Product Inventory	MEF 81 MEF 81.0.1	MEF W116.1 (LB)
Product Order	MEF 57.2	MEF W123.1 (LB)
Trouble Ticketing	MEF 113	MEF W124.1 (LB) MEF W137.1 (LB)
Product Catalog	MEF 127	MEF W142 (LB)
Billing	MEF 134	MEF W141.1 (LB)
Product Offering Availability and Pricing Discovery	MEF 110.	MEF W160 (LB)
Test Requirements	MEF W92.1 Draft Standard (R3)	
Security	MEF 128.1.	
Product Schemas	Schema Guide	
Access E-Line	MEF 106	
Subscriber Ethernet	MEF 125.0.1	
Internet Access	MEF 139	

Release Janis Deliverables

Deliverable	Maturity
MEF W79.1 POQ	LB
MEF W150 Address, Site	LB
MEF W142 Product Catalog API + Dev Guide	LB
MEF W87.1 POQ Dev Guide + API	LB
MEF W115.1 Quote Dev Guide+API	LB
MEF W116.1 Inventory DevGuide+API	LB
MEF W121.1 Address Dev Guide + API	LB
MEF W122.1 Site Dev Guide + API	LB
MEF W123.1 Product Order Dev Guide + API	LB
MEF W124.1 Trouble Ticket Dev Guide + API	LB
MEF W137.1 Appointment Dev Guide + API	LB
MEF W141.1 Billing Dev Guide + API	LB

Historical

LSO Cantata SDK Fergie

Git Tag: [fergie](#)

Date: 23th June 2023

Function	BR&UC	API and Developer Guide
Address Validation	MEF 79 MEF 79.0.2	MEF 121
Site Query	MEF 79	MEF 122
Product Offering Qualification (POQ)	MEF 79 MEF 79.0.1	MEF 87
Quoting	MEF 80	MEF 115
Product Inventory	MEF 81 MEF 81.0.1	MEF 116
Product Order	MEF 57.2	MEF 123
Trouble Ticketing	MEF 113	MEF 124 Trouble Ticket MEF 137 Appointment
Product Catalog	<u>MEF W127 Draft Standard (R1)</u>	<u>MEF W142 (CfC#1 Ready)</u>
Billing	MEF 134	<u>MEF W141 (LB)</u>
Product Offering Availability and Pricing Discovery	<u>MEF W110 Draft Standard (R1)</u>	<u>MEF W160 (CfC#1 Ready)</u>
Test Requirements	MEF W92.1 Draft Standard (R3)	
Security	<u>MEF 128.1 CfC#2</u>	
Product Schemas	Schema Guide	
Access E-Line	MEF 106	
Subscriber Ethernet	MEF 125 <u>MEF W125.0.1 (CfC#2)</u>	
Internet Access	<u>MEF W139 (CfC#3 Ready)</u>	

Release Fergie Deliverables

Deliverable	Maturity
MEF W141 Billing API + Dev Guide	LB
MEF W125.0.1 - Subscriber Ethernet Schemas and Product Schema Guide - Amendment (examples)	CfC#2
MEF W110 Product Offering Availability and Pricing Discovery	Draft Standard (R1)
MEF W127 Product Catalog	Draft Standard (R1)
MEF W139 Internet Access Product	CfC#3 Ready
MEF W128.1 LSO API Security Amendment	CfC#2
MEF W142 Product Catalog API + Dev Guide	CfC#1 Ready
MEF W160 Product Offering Availability and Pricing Discovery API + Dev Guide	CfC#1 Ready

LSO Cantata SDK EIIa

Git Tag: [ella](#)

Date: 4th January 2023

Function	BR&UC	LSO Cantata API	
		Developer Guide	MEF branded TMF envelope API
Address Validation	MEF 79 MEF 79.0.2	MEF 121	GeographicAddressManagement v1.0.1
Site Query	MEF 79	MEF 122	GeographicSiteManagement v1.0.1
Product Offering Qualification (POQ)	MEF 79 MEF 79.0.1	MEF 87	ProductOfferingQualificationManagement v1.0.1 ProductOfferingQualificationNotification v1.0.1
Quoting	MEF 80	MEF 115	QuoteManagement v2.0.1 QuoteNotification v2.0.1
Product Inventory	MEF 81 MEF 81.0.1	MEF 116	ProductInventoryManagement v1.0.2
Product Order	<u>MEF 57.2</u>	<u>MEF 123 (LB)</u>	<u>ProductOrderManagement v5.0.0</u> <u>ProductOrderNotification v5.0.0</u>
Trouble Ticketing	<u>MEF 113</u>	<u>MEF W124 Trouble Ticket (LB)</u> <u>MEF W137 Appointment (LB)</u>	<u>troubleTicketManagement v4.0.0</u> <u>troubleTicketNotification v4.0.0</u> <u>appointmentManagement v2.0.0</u> <u>appointmentNotification v2.0.0</u> <u>workorderManagement v2.0.0</u> <u>workorderNotification v2.0.0</u>
Product Catalog			
Billing	<u>MEF 134 (LB)</u>	<u>MEF W141 (CfC#1 Ready)</u>	
Test Requirements	MEF W92.1 Draft Standard (R2)		
Security	MEF 128		
Product Schemas	Schema Guide		
Subscriber Ethernet	<u>MEF 125 (LB)</u> <u>MEF W125.0.1 (CfC#1)</u>		
Internet Access	<u>MEF W139 (CfC#2)</u>		

Release Ella Deliverables

Deliverable	Maturity
MEF 57.2 Order BR&UC	Standard
MEF W123 Order DevGuide+API	LB
MEF W113 Trouble Ticketing BR&UC	Standard
MEF W124 Sonata API & Developer Guide - Trouble Ticketing	LB
MEF W134 Billing	LB
MEF W141 Billing API + Dev Guide	CfC#1 Ready
MEF W139 Internet Access Product	CfC#2 Ready
MEF W137 Appointment API + Dev	LB
MEF W125 - Subscriber Ethernet Schemas and Product Schema Guide	LB
MEF W125.0.1 - Subscriber Ethernet Schemas and Product Schema Guide - Amendment (examples)	CfC#1 Ready

Supporting artifacts:

- [Example Dynamic Binding Implementation](#)
- [LSO Payload Handbook](#)
- [SonataBlendingTool](#)

LSO Cantata SDK Dolly

Git Tag: [dolly](#)

Date: 8th June 2022

Function	BR&UC	LSO Cantata API		Product specification		Blended envelope + payload (OAS 3.0)	Tooling
		Developer Guide	MEF branded TMF envelope API	Requirements	JSON Schema		
Address Validation	MEF 79 MEF 79.0.2	MEF 121	GeographicAddressManagement (7.0.1)	N/A	N/A		
Site Query	MEF 79	MEF 122	GeographicSiteManagement (7.0.1)	N/A	N/A		
Product Offering Qualification (POQ)	MEF 79 MEF 79.0.1	MEF 87	ProductOfferingQualificationManagement (7.0.1) ProductOfferingQualificationNotification (7.0.1)	MEF W125 (CfC#2) MEF W139 (CfC#1 Ready)	Subscriber Ethernet Internal Access	✔	SonataBlendingTool
Quoting	MEF 80	MEF 115	QuoteManagement (8.0.1) QuoteNotification (8.0.1)	MEF W125 (CfC#2) MEF W139 (CfC#1 Ready)	Subscriber Ethernet Internal Access	✔	SonataBlendingTool
Product Inventory	MEF 81 MEF 81.0.1	MEF 116	ProductInventoryManagement (7.0.2)	MEF W125 (CfC#2) MEF W139 (CfC#1 Ready)	Subscriber Ethernet Internal Access	✔	SonataBlendingTool
Product Order	MEF W57.2 Draft Standard (R4)	MEF W123 (CfC#3)	ProductOrderManagement (9.0.0-RC) ProductOrderNotification (9.0.0-RC)	MEF W125 (CfC#2) MEF W139 (CfC#1 Ready)	Subscriber Ethernet Internal Access	✔	SonataBlendingTool
Trouble Ticketing	MEF 113 Draft Standard (R3)	MEF W124 Trouble Ticket (CfC#3) MEF W137 Appointment (CfC#1 Ready)	troubleTicketManagement (3.0.0-RC) troubleTicketNotification (3.0.0-RC) appointmentManagement (1.0.0-RC) appointmentNotification (1.0.0-RC) workorderManagement (1.0.0-RC) workorderNotification (1.0.0-RC)	N/A	N/A		
Billing	MEF W134 Draft Standard (R1) ?						
Test Requirements	MEF W92.1 Draft Standard (R2)						
Security	MEF W128 Draft Standard (R2)						

Release Dolly Deliverables

Deliverable	Maturity
MEF W57.2 Order BR&UC	Draft Standard (R4)
MEF W134 Billing BR&UC	Draft Standard (R1)
MEF W113 Trouble Ticketing BR&UC	Draft Standard (R3)
MEF W139 Internet Access Product Schema Guide	CfC#1 (Ready)
MEF 123 Order DevGuide+API	CfC#3
MEF W125 - Subscriber Ethernet Schemas and Product Schema Guide	CfC#2
MEF W124 Sonata API & Developer Guide - Trouble Ticketing	CfC#3
MEF W137 Appointment API + Developer Guide	CfC#1 (Ready)
MEF W128 API Security Profile	Draft Standard (R2)

Supporting artifacts:

- Example Dynamic Binding Implementation
- [LSO Payload Handbook](#)

LSO Cantata SDK Celine (January 14th, 2022)

Git Tag: [celine](#)

Function	BR&UC	LSO Cantata API		Product specification		Blended envelope + payload (OAS 3.0)	Tooling
		Developer Guide	MEF branded TMF envelope API	Requirements	JSON Schema		
Address Validation	MEF 79 MEF 79.0.2	MEF 121	GeographicAddress Management v1.0.1	N/A	N/A		
Site Query	MEF 79	MEF 122	GeographicSiteManagement v1.0.1	N/A	N/A		
Product Offering Qualification (POQ)	MEF 79 MEF 79.0.1	MEF 87	ProductOfferingQualificationManagement v1.0.1 ProductOfferingQualificationNotification v1.0.1	MEF 125 (CfC#1)	Subscriber Ethernet	✓	SonataBlendingTool
Quoting	MEF 80	MEF 115	QuoteManagement v2.0.0 QuoteNotification v2.0.0	MEF 125 (CfC#1)	Subscriber Ethernet	✓	SonataBlendingTool
Product Inventory	MEF 81 MEF 81.0.1	MEF W116	ProductInventoryManagement v1.0.1	MEF 125 (CfC#1)	Subscriber Ethernet	✓	SonataBlendingTool
Product Order	MEF W57.2 Draft Standard (R3)	MEF W123 (CfC#2)	ProductOrderManagement v3.0.0-RC ProductOrderNotification v3.0.0-RC	MEF 125 (CfC#1)	Subscriber Ethernet	✓	SonataBlendingTool
Trouble Ticketing	MEF 113 Draft Standard (R2)	MEF W124 (CfC#2)	troubleTicketManagement v2.0.0-RC troubleTicketNotification v2.0.0-RC	N/A	N/A		
Billing							
Test Requirements	MEF W92.1 Draft Standard (R2)						

Release Celine Deliverables

Deliverable	Maturity
MEF W57.2 Order BR&UC	Draft Standard (R3)
MEF 87 POQ Dev Guide + API	LB
MEF 115 Quote Dev Guide+API	LB
MEF W116 Inventory DevGuide+API	LB
MEF 121 Address Dev Guide + API	LB
MEF 122 Site Dev Guide + API	LB
MEF 123 Order DevGuide+API	CfC#2
MEF W125 - Subscriber Ethernet Schemas and Product Schema Guide	CfC#1 - all attributes optional for all APIs
MEF W113 Trouble Ticketing	Draft Standard (R2)
MEF W124 Sonata API & Developer Guide - Trouble Ticketing	CfC#2
MEF W92.1: LSO Sonata Test Requirements	Draft Standard (R2)

Supporting documentation:

- [Example Dynamic Binding Implementation](#)
- [LSO Payload Handbook CfC#1](#)
- [MEF W128 - Draft Release 1 LSO API Security Profile – Implementer's Guide](#)

LSO Cantata SDK Billie (3rd June 2021)

Version: [billie-final](#)

Function	BR&UC	LSO Sonata API		Product specification		Blended envelope + payload (OAS 3.0)	Tooling
		Developer Guide	MEF branded TMF envelope API	Requirements	JSON Schema		
Address Validation	MEF 79 MEF 79.0.2 (Draft Standard R2)	MEF 121 (CfC#1 resolved)	geographicAddressManagement (1.0.0-RC)	N/A	N/A		
Site Query	MEF 79	MEF 122 (CfC#1 resolved)	geographicSiteManagement (1.0.0-RC)	N/A	N/A		
Product Offering Qualification (POQ)	MEF 79 MEF 79.0.1	MEF 87 (CfC#3 resolved)	productOfferingQualificationManagement (1.0.0-RC) productOfferingQualificationNotification (1.0.0-RC)	MEF W125 (working draft)	Subscriber Ethernet	✓	SonataBlendingTool
Quoting	MEF 80 (Draft Standard R6)	MEF W115 (CfC#1 resolved)	quoteManagement (1.0.0-RC) quoteNotification (1.0.0-RC)	MEF W125 (working draft)	Subscriber Ethernet	✓	
Product Inventory	MEF 81 MEF 81.0.1	MEF W116 (CfC#1 working draft)	productInventoryManagement (1.0.0-RC)	MEF W125 (working draft)	Subscriber Ethernet	✓	
Product Order	MEF W57.2 (Draft Standard R2)	MEF W123 (CfC#1 working draft)	productOrderManagement (2.0.0-RC) productOrderNotification (2.0.0-RC)	MEF W125 (working draft)	Subscriber Ethernet	✓	
Trouble Ticketing	MEF W113 (Draft Standard R1)	MEF W124 (working draft, CfC#1 ready)	troubleTicketManagement (1.0.0-RC) troubleTicketNotification (1.0.0-RC)	N/A	N/A		
Billing							
Test Requirements	MEF W92.1 (Draft Standard R1)						

Release Billie Deliverables

Bolded Deliverables are part of the release's theme: "Ordering and Inventory"

Deliverable	Maturity	Comment
MEF W57.2 Order BR&UC	Draft Standard (R2)	
MEF W116 Inventory DevGuide+API	Working Draft (CfC#1)	
MEF 123 Order DevGuide+API	Working Draft (CfC#1)	
MEF W125 - Subscriber Ethernet Schemas and Product Schema Guide	Working Draft (CfC#1)	EPL, EVPL, EP-LAN, EVP-LAN, EP-TREE, EVP-TREE Subscriber UNI
MEF 79.0.2 79 Address amendment	Draft Standard (R2), (LB pending)	
MEF 80 Quote BR&UC	Draft Standard (R6), (LB pending)	
MEF 115 Quote DevGuide+API	CfC#1 resolved	lots of changes in MEF 80
MEF 87 POQ DevGuide + API	CfC#3 resolved	
MEF 121 Address Dev Guide + API	Working Draft (CfC#1)	
MEF 122 Site Dev Guide + API	Working Draft (CfC#1)	
MEF W113 Trouble Ticketing	Draft Standard (R1)	
MEF W124 Sonata API & Developer Guide - Trouble Ticketing	Working Draft (CfC#1)	
MEF W92.1: LSO Sonata Test Requirements	Draft Standard (R1)	

LSO Cantata SDK Aretha

Version: [aretha](#)

Date: 22nd December 2020

Function	BR&UC	LSO Cantata API		Product specification		Blended envelope + payload (OAS 3.0)
		Develo per Guide	MEF branded TMF envelope API	Requir ements	JSON Sche ma	
Address Validation				N/A	N/A	
Site Query				N/A	N/A	
Product Offering Qualification (POQ)						
Quoting						
Product Inventory						
Product Order	MEF W57.2 (Draft Standard R2)		ProductOrderManagement - 1.0.0-RC ProductOrderNotification - 1.0.0-RC		EPL	✓
Trouble Ticketing				N/A	N/A	
Billing				N/A	N/A	

Release Aretha Deliverables

Bolded Deliverables are part of the release's theme "Pre-order"

Deliverable	Maturity	Leader	Comment
Order API	Working Draft updated to 57.2 Draft Standard (R2) (basic scope)	Micha czyski	Basic scope = Create, Cancel, Get, List of Product Order
MEF W57.2 Order BR&UC	Draft Standard R2 (basic scope)	Mike Bencheck	Basic scope = Create, Cancel, Get, List of Product Order The Amend, Charge etc. will be part of Billie release.
EPL Product Schema	Working draft	Larry Samberg	Just product specification, without the documentation