

MEF Standard MEF 81

Product Inventory Management

Requirements and Use Cases

November 2019

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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.

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AT&T
Colt
Ericsson
Futurewei
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Netcracker
Orange
PCCW Global Limited
Spirent
Telus
Verizon

Table 1 - Contributing Member Companies

2 Abstract

This document identifies the common Product Inventory attributes and processes needed to support inter-carrier retrieval of Product Inventory. This document supports the requirements defined in the MEF Lifecycle Service Orchestration (LSO) Reference Architecture and Framework (MEF 55 [10]) requirements for Inventory over the Sonata interface (Service Provider <-> Partner interactions). Information contained within this document will be utilized by both Buyer and Seller inventory systems for the development of automated API systems.



3 Terminology and Acronyms

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

In addition, terms that are defined in MEF 10.3 [5], MEF 12.1 [6], MEF 26.2 [7], MEF 51.1 [9], MEF 55 [10], MEF 57.1 [11], and MEF 79 [12] are included in this document by reference and are not repeated in the table below.

Term	Definition	Reference
Product Inventory	oduct Inventory Product Inventory is the inventory managed by the	
	Seller resulting from Product order completion.	

Table 2 - Terminology and Abbreviations

4 Scope

This specification defines the process for MEF Carrier Ethernet Product Inventory Management between a Partner/Access Provider (Seller) and Service Provider (Buyer). At this time, this document is focused on Access E-Line services as defined in MEF 51.1 [9]. In the future, this document will remove references to specific services. The requirements for Product Inventory, include, but are not limited to, Business Process Flows, Use Cases, Scenarios, Attributes, and State Machine Diagrams. This specification is limited to the business process requirements depicted as Use Cases and attribute definitions needed for Product Inventory Management. It will be the basis of requirements for a Product Inventory Information Model, Data Model, and API.



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 [3]) 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.



6 Introduction

This specification defines the business requirements and process-related guidelines for the Product Inventory retrieval process over the Sonata interface. The Sonata interface is defined in MEF 55 [10] as the Management Interface Reference Point supporting the management and operations interactions (e.g., ordering, billing, trouble management, etc.) between two network providers (e.g., Service Provider Domain and Partner Domain). The scope of this document is limited to interactions between these parties. Within this document, they are referred to as the "Buyer" and the "Seller".

Readers of this document are assumed to be familiar with MEF 57.1[11], MEF 79 [12], and MEF 80 [13]. Concepts, terms, and attributes explained in those documents are not explained within this document.

The Seller's Product Inventory is a set of instances of Products that have been ordered by a Buyer. It is assumed, for a Product to exist in the Seller's Product Inventory, that the Seller has passed the Product ID to the Buyer per MEF 57.1 [11]. Additions and changes to a Product in the Product Inventory are the result of Product Orders being fulfilled or by the request of the Seller. Contact changes as shown in section 8.2 are changed via some method agreed to by the Buyer and Seller. Products that are terminated might be removed from the Seller's inventory system or shown in the disconnected state at the Seller's discretion. The Buyer may retrieve any Product from the Product Inventory using the method described within this document. Product Identifiers of related Products are delivered as part of the response to the Inventory query.

As an example, the Buyer can query the Product Inventory for the following details, which were created as a result of the Product order being fulfilled.

- 1. ACCESS E-Line (corresponds to an OVC)
- 2. *UNI*
- 3. *ENNI*

To fully define the business interactions associated with inter-carrier inventory, this document is focused on the following key areas:

- Product Inventory Use Cases and Business Process Definitions shown in section 7
- Product Inventory Attributes supported in this document shown in section 8
- State Diagrams for Product Inventory shown in section 9
 - [R1] All orders that have been completed via automated or other methods MUST be provided when queried.
 - [R2] The Buyer MUST be able to query any Product for which they have the Product ID.



7 Product Inventory Use Cases and Business Process Definitions

This section describes the Product Inventory Use Cases and the business processes between Buyers and Sellers. The Use Cases needed to support the Product Inventory retrieval of Products and expands on the inventory process defined in MEF 50.1 [8]. These Use Cases are based on business process standards of interactivity between Buyers and Sellers. The specific attributes associated with each Use Case are defined in section 8. Prior arrangements for Buyer authentication, security verification, and system interface requirements are not addressed within these Use Cases. All onboarding requirements must be defined and negotiated between the Buyer and Seller prior to the retrieval of any Product Inventory. The Buyer is only allowed access to Product Inventory that they either act as the Buyer or Agent for the Buyer on. Methods used to limit access to specific Buyer personnel are beyond the scope of this document.

7.1 Product Inventory Use Cases

This section defines the Use Cases that support the retrieval of Product Inventory by a Buyer from a Seller's Inventory Management System.

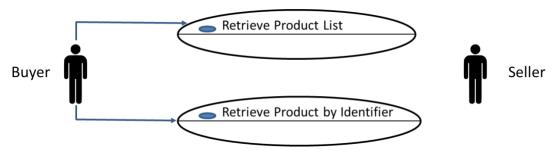


Figure 1 - Product Inventory Retrieval Use Cases

Use Case #	Use Case Name	Use Case Description
1	Retrieve Product List	The Buyer requests a list of Products from
		the Seller based on filter criteria.
2	Retrieve Product by Identifier	The Buyer requests the details associated
		with a single Product based on a Product
		Identifier.

Table 3 - Use Case Table

Note: It is expected that the Buyer can use the Inventory API to retrieve information by the Product Identifier once it has been passed by the Seller to the Buyer. The Product Identifier may be passed to the Buyer when the Product Order is in the Configured, Confirmed, or Completed states per MEF 57.1 [11]. The Inventory API supports a PENDING state as described in section 9.1 for Product Orders that have not been completed and an ACTIVE state as described in section 9.1 for Product Orders that have been completed. At a minimum, the Product Identifier is provided to the Buyer at the time of Product Order completion.

This section defines the details for each Product Inventory use case.



Field	Description
Use Case Number	1
Use Case Name	Retrieve Product List
Description	The Buyer requests a list of Products from the Seller based on filter criteria.
Actors	Buyer/Seller
Pre-Conditions	The Seller's Product Inventory database contains Products.
Process Steps	 The Buyer submits a query specifying the filter criteria to the Seller. The Seller receives the request and validates that the filter criteria is valid. The Seller determines if there are any Products that match the filter criteria. The Seller returns a list of summarized Products.
Post-Conditions	The Buyer has the requested information
Alternative Paths	 The Seller returns an error message if an error is encountered while processing that prevents the Seller from completing the request. If the query does not find any matching records, then the Seller will respond with an indication of this result. If the Seller finds too many matches (the definition of "too many" is at the Seller's discretion), the response indicates this condition and no results are returned. In this case, the Buyer would need to reinitiate the Retrieve Product List request using more specific criteria to obtain fewer matches.
Business Process	MEF 50.1 Order-to-Delivery

Table 4 - Retrieve Product List

[R3] The Buyer MUST support Use Case 1.

[R4] The Seller MUST support Use Case 1.



Field	Description
Use Case Number	2
Use Case Name	Retrieve Product by Identifier
Description	The Buyer retrieves the details associated with the Product that matches
	the specified Identifier.
Actors	Buyer, Seller
Pre-Conditions	Buyer knows the identifier of the Product to be retrieved. The identifier is the Seller Product Identifier (UNI/OVC/ENNI) as assigned by the
	Seller during the ordering process.
Process Steps	 The Buyer submits a request based on the Seller Product Identifier The Seller receives the request and validates the identifier. The Seller returns the matching Product with all the attributes.
Post-Conditions	The Buyer has the information requested
Alternative Paths	 The Seller will return an error message if an error is encountered during processing. The Seller will return an error if the Product with the specific Product Identifier is not found.
Business Process	MEF 50.1 Order-to-Delivery

Table 5 - Retrieve Product by Identifier

[R5] The Buyer MUST support Use Case 2.

[**R6**] The Seller **MUST** support Use Case 2.

8 Product Inventory Operation Attributes

This section identifies the attributes needed for each of the inventory use cases defined above. It is important to note that this section defines the superset of all MEF-defined attributes needed to support Product Inventory for the Use Cases defined in this document.

The columns in the tables are as follows:

• **Attribute** The name of the attribute

• **Description** A short description of the attribute

• Type String, integer, enumerations, or reference to another entry in the table

• **Comments** Comments about the attribute

8.1 Retrieve Product List

This section contains the Service Attributes and requirements for Use Case 1.



Attribute	Description	Туре	Comments
Buyer	The unique name of the organization that is acting as the customer in this transaction.	String	See Buyer/Seller section 8.3
Seller	The unique name of the organization that is acting as the supplier in this transaction.	String	See Buyer/Seller section 8.3
Initial Order Completion Date	The date that the Product Order that created this Product was completed per MEF 57.1.	Date/Time Range	This date is the initial install date for the Product. A range of Date/Time is included in the query.
Last Updated Date	The date that the last change affecting this Product was completed. This could be set by an order initiated by the Buyer or if the Seller changes the Status of the Product.	Date/Time Range	If the Buyer maintains a copy of the Seller's inventory, they can use this attribute to query for all changes since the last time their copy was updated. If the Buyer does not maintain a copy of the Seller's inventory, it is likely that they will use the attribute to query order initiated by the Buyer that have been completed since the specified Date/Time. A range of Date/Time is included in the query.



Attribute	Description	Type	Comments
Status	The state of the	A string that is one of	The Seller is
	Product in accordance	Pending	responsible for
	with the Product	Cancelled	managing the
	lifecycle shown in the	Active	Product lifecycle
	state machine in	Active_Pending_Change	states.
	section 9.	Suspended	
		Active_Pending_Terminate	
		Suspended_Pending_Terminate	
		Terminated	
Product	The identifier of the	String	
Specification	Product Specification		
ID			
Product	The identifier of the	String	
Offering ID	Product Offering		
Billing	The Billing Account	Reference to a Billing Account	The current
Account	associated with the		billing account
	Product		associated with
			the Product
			provided at order
			time.
Service Site	The identifier of this	String	Unique within
Identifier	Service Site		the Seller
(Geographical Site ID)			



Attribute	Description	Туре	Comments
Related	The identifier of	String	This criteria
Product ID	Related Product(s)		allows retrieving
			all Product
			records with a
			Product
			Relationship to a
			specified
			Product. E.g. All
			Products related
			to Product with
			ID 5
Product Order	Identifies the Product	String	This identifier is
Identifier	Order associated with		provided by the
	the Product		Seller and
			communicated to
			the Buyer during
			the order process.
			This ID is unique
			within the Seller.
			This can be any
			Order ID that has
			been used during
			the lifetime of
			the Product
			including any in-
			progress orders.
Buyer Product	The identifier of the	String	This is specified
ID	Buyer Product		and maintained
			by the Buyer

Table 6 - Inventory Buyer Query Attributes

- [R7] The Buyer MUST be able to perform Buyer Inventory Query without any filter criteria.
- [O1] The Buyer MAY specify any of the filter criteria shown in Table 6 in their Buyer Inventory Query.

The Seller receives the query from the Buyer and attempts to match the Buyer's filter criteria to Product Identifiers that are known the Seller. The definition of a "Match" is at the Seller's discretion. The Seller returns a list of all Product Identifiers that match the Buyer's filter criteria as described in Use Case 1 in Table 4.



Froduct Inventory Managemen			
Attribute	Description	Type	Comments
Buyer	The unique name of the organization that is acting as the customer in this transaction.	String	See Buyer/Seller section 8.3
Seller	The unique name of the organization that is acting as the supplier in this transaction.	String	See Buyer/Seller section 8.3
Seller Response Code	A response identifier, indicating if the Seller was able to successfully accept the Inventory request. The detailed response options are for further study but include: Success and Failure.	String	For further study
Seller Product Identifier	Product Identifier (UNI/OVC/ENNI) as assigned during the ordering process	String	The identifier is established by the Seller and required to create the Product Inventory record. Examples could be a Service Identifier, OVC Identifier, UNI Identifier, or ENNI Identifier.
Status	The state of the Product in accordance with the Product lifecycle shown in the state machine in section 9.	String of one of the following: Pending Cancelled Active Active_Pending_Change Active_Pending_Terminate Suspended Suspended_Pending_Terminate Terminated	The Seller is responsible for managing the Product lifecycle states.
Initial Order Completion Date	The date that the Product Order that created this Product was completed per MEF 57.1.	Date/Time Range	This date is the initial install date for the Product. A range of



			Date/Time is
			included in the
Last Updated Date	The date that the last change affecting this Product was completed. This could be set by an order initiated by the Buyer or if the Seller changes the Status of the Product.	Date/Time Range	query. If the Buyer maintains a copy of the Seller's inventory, they can use this attribute to query for all changes since the last time their copy was updated. If the Buyer does not maintain a copy of the Seller's inventory, it is likely that they will use the attribute to query order initiated by the Buyer that have been completed since the specified Date/Time. A range of
			Date/Time is included in the
D 1			query.
Product Offering ID	The identifier of the Product Offering	String	
Product Specification ID	The identifier of the Product Specification	String	
Buyer Product ID	The identifier of the Buyer Product	String	This is specified and maintained by the Buyer

Table 7 - Product Inventory Query Seller Response

[R8] The Seller MUST return a response to the Buyer Inventory Query with a list of the Products and associated information shown in Table 7 that match the Buyer's filter criteria.



- [O2] The Seller MAY place a limit on the length of the list returned.
- [O3] If the Buyer Inventory Query exceeds that length, the Seller MAY return an error indicating that the list is too long.

8.2 Retrieve Product Details by Product Identifier

If the Buyer knows the Seller's Product Identifier they can query the Seller's Product Inventory based on this identifier as shown in Use Case 2 in Table 5.

Attribute	Description	Type	Comments
Product	Product Identifier (UNI/OVC/ENNI)	String	The identifier is
Identifier	as assigned during the ordering		established by the Seller
	process		and required to create the
			Product Inventory record.
			Examples could be a
			Service Identifier, OVC
			Identifier, UNI Identifier,
			or ENNI Identifier.

Table 8 - Product Inventory Product Identifier Buyer Query

[R9] The Buyer's Product Inventory Product Identifier Query MUST provide the Seller Product Identifier.

The Seller receives the Buyer's Product Identifier query and determines if there is a match to the Product Identifier in the Inventory. The definition of a "Match" is at the Seller's discretion. The Seller returns detailed Service Attributes of the Product Identifier that matches the Buyer's filter criteria as described in Use Case 2 in Table 5.

Attribute	Description	Type	Comments
Buyer	The unique name of the organization that is acting as the customer in this transaction.	String	See Buyer/Seller section 8.3
Seller	The unique name of the organization that is acting as the supplier in this transaction.	String	See Buyer/Seller section 8.3
Seller Response Code	A response identifier, indicating if the Seller was able to successfully accept the Inventory request. The detailed	String	For further study



	T	Product Inventory Management	
Attribute	Description	Туре	Comments
	response options are for further study but include: Success and Failure.		
Product			
Seller Product Identifier	Product Identifier (UNI/OVC/ENNI) as assigned during the ordering process	String	The identifier is established by the Seller and required to create the Product Inventory record. Examples could be a Service Identifier, OVC Identifier, UNI Identifier, or ENNI Identifier.
Product	The product that is associated to the Seller Product Identifier	Reference to a Product	
Status	The state of the Product in accordance with the Product lifecycle shown in the state machine in section 9.	String that is one of the following: Pending Cancelled Active Active_Pending_Change Active_Pending_Terminate Suspended Suspended_Pending_Terminate Terminated	The Seller is responsible for managing the Product lifecycle states.
Buyer Product Identifier	This identifier is optionally provided during the Product ordering and stored for informative purpose in the Seller inventory. It may be a Buyer's UNI Identifier or a Buyer's OVC Identifier	String	For any request to Product update (done through Product order), Seller Product Identifier must be used.
Initial Order Completion Date	The date that the Product Order that created this Product was completed per MEF 57.1.	Date/Time Range	This date is the initial install date for the Product.



Attribute	Description	Type	Comments
	•		
Last Updated Date	The date that the last change affecting this Product was completed. This could be set by an order initiated by the Buyer or if the Seller changes the Status of the Product.	Type Date/Time Range	If the Buyer maintains a copy of the Seller's inventory, they can use this attribute to update their copy of the Seller's inventory for all changes since the last time their copy was updated. If the Buyer does not maintain a copy of the Seller's inventory, this attribute is used to communicate any order(s) initiated by the Buyer that have been completed since the specified Date/Time. A range of Date/Time is
			included in the
Termination Date	The date that the Product Order changing the status to Terminated was completed per MEF 57.1.	Date/Time Range	query.
Site			
Service Site Identifier	The identifier of this Service Site	String	Unique within the Seller
Service Site Reference	Reference to the Service Site	Reference	
Service Site Name	Name of the Service Site	String	
Product Offerin	ng		
Product Offering Identifier	A unique identifier of the Product Offering.	String	This is a reference to the associated Product Offering.



Attribute	Description	Туре	Comments
Product Specifi		-JP-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Product Specification Identifier	A unique identifier of the Product Specification.	String	This is a reference to the associated Product Specification. Details of the Product Specification are outside the scope of this document.
Product Relation	onship		
Relationship Nature	Specifies the nature of relationship to the related product. The nature of required relationships vary for Products of different types. For example, a UNI or ENNI Product may not have any relationships, but an Access E-Line may have two mandatory relationships (related to the UNI on one end and the ENNI on the other). More complex Products such as multipoint IP or Firewall Products may have more complex relationships. As a result, the allowed and mandatory Relationship Nature values are defined in the Product Specification.	String that is one of the relationship types specified in the Product Specification.	



Attribute	Description	Туре	Comments
Seller Product	Product Identifier	String	The identifier is
Identifier	(UNI/OVC/ENNI)	Sumg	established by the
	as assigned during		Seller and required
	the ordering process		to create the
	3.2.2.28 P. 2.2.2.2		Product Inventory
			record. Examples
			could be a Service
			Identifier, OVC
			Identifier, UNI
			Identifier, or ENNI
			Identifier.
Billing Account			
Billing	The identifier of the	String	A reference to the
Account	billing account.		billing account
Identifier			provided at the
			time the Product
D 1 (1D (was ordered.
Related Party	TTI D 1 C.1	l a	D 1
Contact Role	The Role of the	String	Roles are
	Contact	Decree A community To the in-	described in Table
		Buyer Assurance Technical Contact	9.
		Seller Assurance Technical	
		Contact	
		Seller Commercial Contact	
		Seller SLA Management	
		Contact	
		Buyer Commercial Contact	
		Buyer SLA Management	
		Contact	
Contact Name	The person or	String	
	organization to be		
	contacted.		
Contact Phone	The telephone	String	
Number	number for this		
	contact.		
Contact Phone	The telephone	String	
Number	number extension		
Extension	for this contact.		
Contact email	The email address	String	
Address	for this contact.		



Attribute	Description	Туре	Comments
Product Order		-JP-	
Product Order Identifier	Identifies the Product Order. Associated with the Product	String	This identifier is provided by the Seller and communicated to the Buyer during the order process. This ID is unique within the Seller.
Product Order Item	The Product Order Item associated with the Product	Reference to one or more Product Order Items	The Product Order Item of the associated Product order that resulted in the creation of this Product.
Product Order Item Identifier	Identifies the Product Order Item. One or more Product Order Items exist within a Product Order.	String	This is a reference to the associated Product Order Item assigned by the Seller and communicated to the Buyer during the order process. This ID is unique within this order.
Product Order Item Term	Duration of the term.	Duration	
Product Order Item Term End Date	The end date for the Product Order Item Term	Date/Time Range	
Agreement	The agreement(s) associated with the Product Order Item.	Reference to an Agreement	
Agreement			
Agreement ID	Unique agreement identifier	String	
Agreement Name	Name of the agreement.	String	
Agreement Path	A URI/URL to where the agreement resides.	String	
Product Price			



Attribute	Description	Type	Comments
Price Type Price	Indicates if the price is for recurring or non-recurring charges. Charge period for	String of one of the following: Recurring Non-recurring One of the following:	Set by the Seller
Recurring Change Period	recurring charge	HOURDAYWEEKMONTHYEAR	
Price	The associated price.	Reference to a Price	Set by the Seller
Price Name	Name of the price.	String	Set by the Seller
Price Description	Description of the price.	String	Set by the Seller
Price			
Pre-Tax Value	The price value	Float	
Price Tax Rate	The tax rate applied.		
Price Tax Included Amount	All taxes included amount (expressed in the given currency).		
Price Duty Free Amount	All taxes excluded amount (expressed in the given currency).		
Price Unit	Currency ISO 4217 [1] norm uses 3 letters to define the currency	String	

Table 9 - Seller Product Identifier Inventory Response

- [R10] The Seller MUST reply to the Buyer's Product Identifier query with the Service Attributes shown in Table 9.
- [R11] The Seller MUST provide contact information as shown in Table 9.

The Contact Roles are defined as shown below. The method used to update these contacts in the Seller's Inventory system is assumed to be agreed to between the Buyer and Seller and is outside the scope of this document.

Contract Role	Description
Assurance Technical Contact	Operational contact such as Network
	Operations Center (NOC) for each party.



Commercial Contact	Contact for commercial issues like billing, contract extensions, etc. for each party.
SLA Management Contact	Contact for SLA related issues, lifecycle
	reports, etc. for each party.

Table 10 - Contact Role Definitions

8.3 Specifying the Buyer and the Seller

For queries of all types, there is a business entity that is initiating an Operation (called a Sending Entity) and a business entity that is responding to this request (called the Responding Entity). In the simplest case, the Sending Entity is the Buyer and the Responding Entity is the Seller. However, in some cases, the Sending Entity may represent more than one Buyer and similarly, the Responding Entity may represent more than one Seller.

While it is outside the scope of this specification, it is assumed that the Sending Entity and the Responding Entity are aware of each other and can authenticate requests initiated by the other party. It is further assumed that both the Buying Entity and the Sending Entity know a) the list of Buyers the Sending Entity represents when interacting with this Responding Entity; and b) the list of Sellers that this Responding Entity represents to this Sending Entity.

- **[R12]** If the Sending Entity has the authority to represent more than one Buyer with the Responding Entity, the request **MUST** specify the Buyer being represented in this request using the Buyer attribute.
- [R13] If the Sending Entity represents precisely one Buyer with the Responding Entity, the request MUST NOT specify the Buyer attribute.
- [R14] If the Responding Entity represents more than one Seller to this Buyer, the request MUST specify the Seller that is responding by using the Seller attribute.
- [R15] If the Responding Entity represents precisely one Seller to this Buyer, the request MUST NOT specify the Seller attribute.

9 State Diagrams

9.1 Product Inventory Process Flow

The Product Inventory process flow is shown below. The diagram captures various states that the Product goes through in its lifecycle. The specific states are managed by the Seller based on its processing and/or based on Buyer's action.



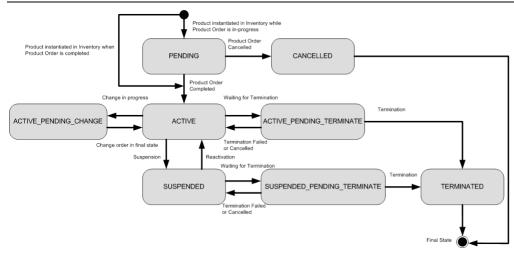


Figure 2 - Product Inventory Process Flow

[R16] The Seller's Sonata Inventory interface MUST support the state machine shown in Figure 2.

The definitions of the various states are as follows:

State	Description
ACTIVE	The Product Order has been successfully
	completed and the Product Order and
	associated Product Order Items are in the
	Inventory.
ACTIVE_PENDING_CHANGE	The Product is ACTIVE and has a Product
	Order to change the Product that is in
	progress. The status returns to ACTIVE
	when the order is completed or if the
	Product Order is cancelled.
ACTIVE_PENDING_TERMINATE	The Product is ACTIVE and has a
	disconnect Order submitted by the Buyer
	that is in progress. The status changes to
	TERMINATED if the terminate is
	successful. The status returns to ACTIVE
	if the Product Order fails to be completed
	or the Product Order is cancelled.
CANCELLED	The Product is CANCELLED when the
	Product Order has moved to the
	CANCELLED state per MEF 57.1 [11].
PENDING	The Product Order has moved to the
	Configured or Confirmed state as defined
	in MEF 57.1 [11] and the Product ID for
	one or more Product Items have been
	passed from the Seller to the Buyer. The
	Product Order is not completed.



SUSPENDED	A Product has been successfully
	suspended. Products are placed into
	suspended state for some reason (e.g. non-
	payment of bill) and removed from
	suspended state for some reason (e.g. after
	payment).
SUSPENDED_PENDING_TERMINATE	The Product is in the process of being
	terminated by the Seller for some reason
	(e.g. non-payment). The status changes to
	TERMINATED if the terminate is
	successful. The status returns to
	SUSPENDED if the terminate is not
	successful or cancelled.
TERMINATED	The Product has been successfully
	terminated via a disconnect Product order
	initiated by the Buyer or by the Seller for
	some reason (e.g. non-payment).

Table 11 - Product Inventory State Values

[R17] The Seller's Sonata Inventory interface MUST support the states shown in Table 11.



10 References

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