



Draft Standard MEF 134 Draft (R1)

Invoice Business Requirements and Use Cases Release 1

May 2022

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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.

Editor Note 1: This list will be finalized before Letter Ballot. Any member that comments in at least one CfC is eligible to be included by opting in before the Letter Ballot is initiated. Note it is the MEF member that is listed here (typically a company or organization), not their individual representatives.

- ABC Networks
- XYZ Communications

2 Abstract

This document contains the Business Requirements and Use Cases for Invoicing between a Seller and a Buyer at the Sonata Interface Reference Point.

3 Release Notes

This document currently has an open Letter Ballot. Changes are not expected to be made to the document.



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.

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

Term	Definition	Reference
Invoice	A legal document generated by the Seller to the Buyer	This document
	relating to charges associated to Products provided by	
	the Seller to the Buyer.	

Table 1 – Terminology and 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 2: 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 Numerical Prefix Conventions

Editor Note 3: This section will be deleted if no numerical prefixes are used in the document.

This document uses the prefix notation to indicate multiplier values as shown in Table 2.

Decimal		Binary	
Symbol	Value	Symbol	Value
k	10^{3}	Ki	2^{10}
M	10^{6}	Mi	2^{20}
G	10^{9}	Gi	2^{30}
T	10^{12}	Ti	2^{40}
P	10^{15}	Pi	2^{50}
Е	10^{18}	Ei	2^{60}
Z	10^{21}	Zi	2^{70}
Y	10^{24}	Yi	2^{80}

Table 2 – Numerical Prefix Conventions



7 Introduction

This document defines the Business Requirements and Use Cases for Invoicing at the Sonata Interface Reference Point (IRP). The focus of this document is on the ability of a Seller to notify a Buyer that an Invoice for their products is available and for the Buyer to retrieve an Invoice. The Buyer then either accepts the Invoice or disputes one or more charges associated with the Invoice. Disputed charges are resolved by the Buyer and Seller.

The document does not address how payment of an Invoice is made by the Buyer. This is beyond the scope of the project.



8 Use Cases

Based on the Epics and User Stories defined previously, the following Use Cases have been developed, An overview of the Use Cases contained in this document are shown in Table 3.

Use Case Name	Use Case Description	Reference Section
Register for Notification	Buyer is able to register for	
	Invoice Notifications	
Send Notification	Seller sends an Invoice	
	Notification to a Buyer	
Retrieve Invoice List	The Buyer is able to retrieve	
	a list of Invoices.	
Retrieve Invoice by	The Buyer is able to retrieve	
Identifier	a specific Invoice based on	
	the Invoice Identifier of the	
	Invoice	
Dispute Invoice or Line	The Buyer informs the Seller	
Item	that they are disputing one or	
	more Line Items in an	
	Invoice.	

Table 3 – Use Case Overview

8.1 Notification Use Cases

The Use Cases that support Sonata Invoicing are defined in this section.

8.1.1 Register for Invoice Notifications

A request initiated by the Buyer to instruct the Seller to send notifications of Invoice state changes to the Buyer. Pre-Conditions

The Buyer has a commercial relationship with the Seller. The Buyer is the responsible party for payment for products that have been delivered to the Buyer by the Seller.

8.1.1.1 Process Steps

1. The Buyer sends the Register for Invoice Notification request to the Seller.

[R1] The Buyer request MUST contain the following:

Attribute	Value	Definition
Notification Action	Stop	
	Start	
Notification Type	Invoice Ready	
	State Change	



Attribute	Value	Definition
Recipient Information		

Table 4 – Register for Invoice Notification Buyer Request Attributes

- 2. The Seller responds to the Buyer's request with an acknowledgment.
- 3. The Seller is now aware of where to send Invoice Notifications and generates Invoice Notifications to the Buyer for any Invoice State Changes going forward.

The Seller returns an error message if they do not support notifications.

[R2] If the Seller does not support notifications, they MUST return an error message to a Buyer's request to register for notifications that indicates that notifications are not supported.

8.1.2 Generate Invoice Notifications

The Seller sends Invoice notifications to a Buyer target address when the Buyer has registered for Invoice notifications.

8.1.2.1 Process Steps

- 1. The Seller sends an Invoice Notification to the Buyer.
 - [R3] The Invoice notification MUST contain the following:
 - Notification Type (Invoice Ready, State Change)
 - Invoice Identifier
 - [R4] The Invoice Ready notification MUST be sent when an Invoice is in the Generated state.
- 2. The Buyer acknowledges the Notification received from the Seller.
 - [O1] If the Seller fails to receive an acknowledgement from the Buyer repeatedly, they Seller MAY make the target address as bad and stop sending notifications.

8.2 Retrieve Invoice Use Cases

The Use Cases for the Retrieve Invoice Epic are defined in this section of the document.

8.2.1 Retrieve Invoice List

A request initiated by a Buyer, who is authorized to purchase products from the Seller, to retrieve a list of Invoices that meet a set of filter criteria.

8.2.1.1 Process Steps

1. The Buyer sends a Retrieve Invoice List request to the Seller.



[R5] The Buyer request MUST contain the following:

- Invoice Account ID
- Start Date
- End Date
- Invoice Category
- Invoice State
- 2. The Seller receives this request and returns a response.
 - [R6] The Seller response MUST include the following for each entry in the list:
 - Invoice Identifier an identifier for the Buyer's Invoicing Account that is unique within the Seller and that is assigned by the Seller.
 - Invoice Number a number assigned to the Invoice by the Seller that is unique within the Invoicing Account.
 - Invoice Category
 - o Normal an Invoice for the Invoicing Cycle
 - Duplicate a copy of an Invoice that has been provided.
 - o Interim an Invoice that is provided instead of a Normal Invoice.
 - o Last the last Invoice for a Product that has been disconnected.
 - o Trial Customer a Invoice for a customer during a trial period
 - Credit Note for Example an example of a credit note that may be included within an Invoice.
 - Invoice State
 - New an Invoice that has been created based on the completion of an Invoicing Cycle.
 - On_hold an Invoice that is On_hold due to issues raised by the Buyer.
 - Validated an Invoice where all items have been validated.
 - Sent an Invoice for which an Invoice Notification has been sent to the Buyer.
 - Partial_Payment an Invoice for which a partial payment has been received.
 - o Settled an Invoice for which all payment due has been received
 - [R7] If no Invoices match the criteria provided by the Buyer, the Seller MUST return a positive response with an empty list.

8.2.2 Retrieve Invoice by Invoice Identifier

A request initiated by the Buyer, who has been authorized to purchase products from the Seller, to retrieve a specific Invoice using the Invoice Identifier to identify the Invoice.

8.2.2.1 Process Steps

1. The Buyer sends a Retrieve Invoice by Invoice Identifier request to the Seller.



- [R8] The Buyer request MUST contain the following:
 - Invoice Identifier an identifier for the Buyer's Invoice that is unique within the Seller and that is assigned by the Seller.
- 2. The Seller receives this request and returns a response.
 - [R9] The Seller response MUST include the attributes in Table 5 and Table 6 for the Invoice Identifier.

Attribute		Description	
Invoice Number	r	A number assigned to the Invoice by the Seller	
Run Type	Sub-Attribute	The Invoicing cycle as set by the Seller	
V 2	On_Cycle	Invoice created as a result of the normal Invoicing Cycle	
	Off_Cycle	Invoice created outside the normal Invoicing Cycle. This may be based on a Buyer request or for other reasons.	
Invoice	Values	The type of Invoice	
Category	Normal	An Invoice for the Invoicing Cycle	
	Duplicate	A copy of an Invoice that has been provided	
	Trial	An Invoice that is sent by the Seller to the Buyer for test Invoicing purposes to assist in assuring that their Invoicing implementations are compatible. The Trial Invoice is not paid.	
Invoice State	Values	The state of the Invoice	
2	Credit	The Seller has agreed with the Buyer that disputed charges are in error and has provided a credit for the disputed charges in error.	
	Generated	An Invoice that has been created based on the completion of an Invoicing Cycle and an Invoice Notification has been sent to the Buyer.	
	In Dispute	A Buyer has disputed charges included in an Invoice and those charges are in the Seller's Dispute Process.	
	Fully Settled	An Invoice for which all payment due has been received.	
	Partially Settled	An Invoice for which a partial payment has been received.	



mer Invoice Business Requirements and OSC Cases				
Attribute			Description	
Withdrawn			A Seller has agreed with the Buyer that	
			disputed charges are in error and has	
			withdrawn the Invoice.	
Last Update Date			The date when the Invoice was last	
-			modified.	
Invoice Date			Date the Invoice was issued.	
Invoicing Period	Sub-Attribute		The Start and Stop Dates of the	
C			Invoicing Period.	
	Start Date		The date the Invoicing Period started.	
	Stop Date		The date the Invoicing Period ended.	
Invoicing Cycle Id			The identifier of the Invoicing Cycle	
mvoicing Cycle it	dentifier		iteration.	
Amount Due			The total amount of money (unit,	
Alliount Due			value) with all taxes, fees, and credits	
D (D D)			applied that is due.	
Payment Due Date	e		The date by which a payment of the	
			Amount Due must be received by the	
			Seller	
Remaining Amou	nt		An amount of money (unit, value) that	
			still requires payment.	
Tax Excluded Am	nount		The amount of money (unit, value) due	
			without taxes being calculated for the	
			current Invoicing Cycle.	
Tax Included Ame	ount		The amount of money (unit, value) due	
			with taxes being calculated for the	
			current Invoicing Cycle.	
Discounts				
Fees				
Credits				
Applied	Sub-Attribute		A list details of a payment that has	
Payment			been received from the Buyer	
. ,	Applied Amount		The amount of money (unit, value) that	
	Tippiica Timouni		was received from the Buyer and	
			applied to the Invoice as payment.	
	Payment	Sub-Sub-Attribute	A payment that has been received.	
	1 ayıncın	Payment Identifier	An identifier for the payment that is	
		ayment identified	unique within the Buyer Invoicing	
			Account and is assigned by the Seller.	
		Doymont Data		
		Payment Date	The Date the payment was received.	
		Amount	The amount of money (unit, value)	
		D	received.	
	<u> </u>	Payment Method	The specific means of payment.	
	Sub-Attribute		The Buyer Invoicing Account.	



Attribute		Description
Invoicing Account	Invoicing Account Identifier	An identifier for the Invoicing Account that is unique within the Seller and is assigned by the Seller.
Tax Items	Sub-Attribute	
	Tax Category	The Tax Category for this tax item.
	Tax Rate	The Tax Rate for this Tax Item.
	Tax Amount	The amount of money (unit, value) calculated for this Tax Item.
Related Parties	Sub-Attribute	A party related to this Invoice.
	Identifier	An identifier for the Related Party that is unique within the Seller and is assigned by the Seller.
	Name	The name of the Related Party.
	Role	The role of the Related Party.
	Type	The type of Related Party.
Financial	Sub-Attribute	A Financial Account within the Seller.
Account	Identifier	An identifier for the Financial Account that is unique within the Seller and is assigned by the Seller.
	Name	The name of the Financial Account.
	Туре	The type of the Financial Account.

Table 5 – Invoice Attributes

Attribute	Description
Item Identifier	The Invoice Line-Item identifier.
Product Identifier	The identifier of the Product that is the
	subject of the Line Item. A Product
	Identifier is provided unless no Product
	Identifier exists. In that case, the Product
	Order Identifier is used instead of the
	Product Identifier.
Product Order Identifier	The identifier for a Product Order that did
	not result in an installed Product.
Product Name	The name of the Product that is the subject
	of the Line Item.
Invoicing Start Date	The start date of Invoicing for the Line
	Item
Invoicing End Date	The end date of Invoicing for the Line
	Item.
Charge Description	A text description of the charge.
Unit Rate	The rate per unit for the Invoice
	determined during or after the Invoicing
	Process.



Attribute		Description	
Unit Quantity		The number of units.	
Charge Type		The type of charge related to the Line	
		Item. The type is one of:	
		RecurringNon-recurringUsage-based	
Duty Free Amount		The amount of money (unit, value) of the	
·		charge before taxes and fees are calculated and applied.	
List of Taxes	Sub-Attribute	Taxes and fees associated with the Line	
		Item	
	Tax Category	The category of the Tax.	
	Tax Description	A description of the type of Tax The rate at which the Tax is calculated.	
	Tax Rate		
	Tax Amount	The amount of money (unit, value) of the	
		Tax.	
List of Fees			

Table 6 – Invoice Line-Item Attributes

8.2.3 Retrieve Printable Invoice

A request initiated by the Buyer, who has been authorized to purchase products from the Seller, to retrieve a specific Invoice using the Invoice Identifier to identify the Invoice in a printable format.

8.2.3.1 Process Steps

- 1. The Buyer sends a Retrieve Printable Invoice by Invoice Identifier request to the Seller.
 - [R10] The Buyer request MUST contain the following:
 - Invoice Identifier an identifier for the Buyer's Invoice that is unique within the Seller and that is assigned by the Seller.
- 2. The Seller receives this request and returns a response that includes a file that is printable by the Buyer. The format of the printable invoice is agreed to by the Buyer and Seller during on-boarding.
 - [R11] The Seller response MUST include the attributes in Table 5 and Table 6 for the Invoice Identifier in the printable file.

8.3 Dispute Charges

The Buyer can dispute an Invoice or a Line Item within an Invoice.



8.3.1 Dispute Invoice

The Buyer can dispute an entire Invoice.

8.3.1.1 Process Steps

- 1. The Buyer sends a Dispute Invoice request to the Seller.
 - [R12] The Dispute Invoice request MUST contain the disputed Invoice Identifier and the Dispute Reason.
- 2. The Seller moves the Invoice to the InDispute state and begins the Seller's dispute process.
 - [R13] The Seller MUST move an Invoice for which a Dispute Invoice request has been received to the In Dispute state and begin any applicable process to resolve the dispute.
- 3. The Seller concludes the dispute process and updates the state of the dispute to either Accepted or Declined.
 - [R14] The Seller MUST update the state of the dispute to Accepted if the dispute process accepted the dispute.
 - [R15] If the dispute is accepted, the Seller MUST update the Invoice accordingly and notify the Buyer that the revised Invoice is available if applicable.
 - [R16] The Seller MUST update the state of the dispute to Declined if the dispute process declined the dispute.

8.3.2 Dispute Line Item

The Buyer can dispute one or more Line Items within an Invoice.

8.3.2.1 Process Steps

- 1. The Buyer sends a Dispute Invoice Line-Item request to the Seller.
 - [R17] The Dispute Invoice request MUST contain the disputed Invoice Identifier, one or more Line-Item Identifiers, and the Dispute Reason for each Line Item.
- 2. The Seller moves the Invoice to the In Dispute state and begins the Seller's dispute process.
 - [R18] The Seller MUST move an Invoice for which a Dispute Invoice Line-Item request has been received to the In Dispute state and begin any applicable process to resolve the dispute.
- 3. The Seller concludes the dispute process and updates the state of the dispute to either Accepted or Declined.



- [R19] The Seller MUST update the state of the dispute to Accepted if the dispute process accepted the dispute.
- **[R20]** If the dispute is accepted, the Seller **MUST** update the Invoice and Line Item(s) accordingly and notify the Buyer that the revised Invoice is available if applicable.
- [R21] The Seller MUST update the state of the dispute to Declined if the dispute process declined the dispute.



9 Process Flows

9.1 Invoice Process Flow

The process flow for Invoicing is shown in Figure 1.

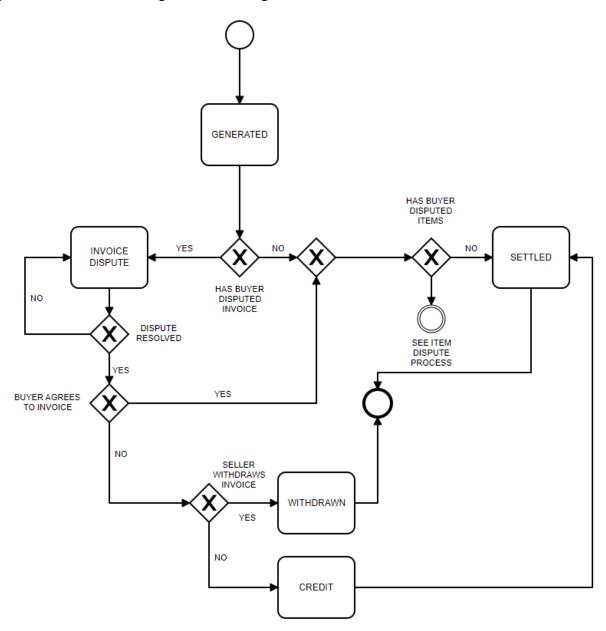


Figure 1 – Invoice Process Flow

The states within the Invoice Process Flow are described in Table 7.

State	Definition	Comments
CREDIT	The Seller has agreed with	How a Seller determines
	the Buyer that disputed	whether to offer a credit or



1 ' 11	1d 1 d T 1 1
_	withdraw the Invoice is
1 -	beyond the scope of this
amount in error.	document.
A Buyer has disputed charges	The method of disputing
included in an Invoice and	charges on an Invoice is
those charges are in the	beyond the scope of this
Seller's Dispute Process.	document.
Disputes cannot exit the	
dispute process until the	
Dispute is resolved.	
An Invoice that has been	
created based on the	
completion of an Invoicing	
Cycle and an Invoice	
Notification has been sent to	
the Buyer.	
An Invoice for which all	
payment due has been	
received.	
A Seller has agreed with the	How a Seller determines
Buyer that disputed charges	whether to offer a credit or
are in error and has	withdraw the Invoice is
withdrawn the Invoice.	beyond the scope of this
	document.
	A Buyer has disputed charges included in an Invoice and those charges are in the Seller's Dispute Process. Disputes cannot exit the dispute process until the Dispute is resolved. An Invoice that has been created based on the completion of an Invoicing Cycle and an Invoice Notification has been sent to the Buyer. An Invoice for which all payment due has been received. A Seller has agreed with the Buyer that disputed charges are in error and has

Table 7 – Invoice Process Flow States

[R23] An Invoice API MUST support the states and transitions shown in Figure 1 and Table 7.

9.2 Invoice Line Item Flow

The process flow for line item in Invoicing is shown in



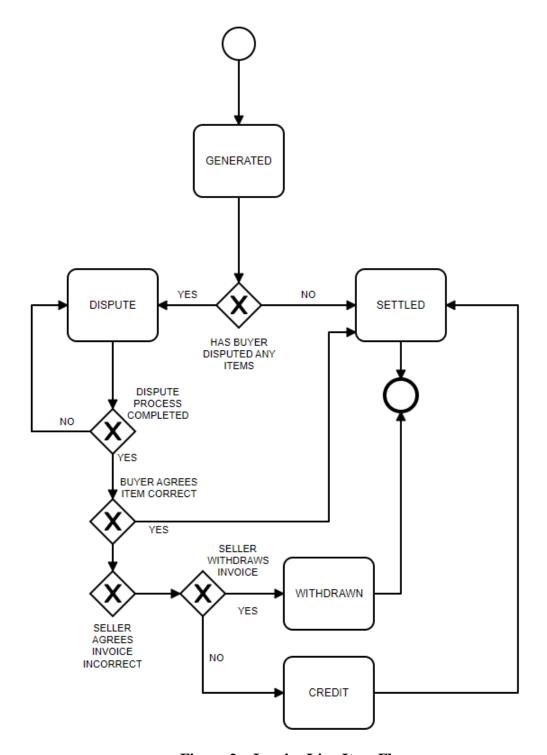


Figure 2 – Invoice Line Item Flow

State	Definition	Comments
CREDIT	The Seller has agreed with	How a Seller determines
	the Buyer that disputed	whether to offer a credit or
	charges are in error and has	withdraw the Invoice is



11 1 11 0 1	1 1.1 6.1.
1 -	beyond the scope of this
amount in error.	document.
A Buyer has disputed charges	The method of disputing
included in an Invoice and	charges on an Invoice is
those charges are in the	beyond the scope of this
Seller's Dispute Process.	document.
Disputes cannot exit the	
dispute process until the	
Dispute is resolved.	
An Invoice that has been	
created based on the	
completion of an Invoicing	
Cycle and an Invoice	
Notification has been sent to	
the Buyer.	
An Invoice for which all	
payment due has been	
received.	
A Seller has agreed with the	How a Seller determines
Buyer that disputed charges	whether to offer a credit or
are in error and has	withdraw the Invoice is
withdrawn the Invoice.	beyond the scope of this
	document.
	included in an Invoice and those charges are in the Seller's Dispute Process. Disputes cannot exit the dispute process until the Dispute is resolved. An Invoice that has been created based on the completion of an Invoicing Cycle and an Invoice Notification has been sent to the Buyer. An Invoice for which all payment due has been received. A Seller has agreed with the Buyer that disputed charges are in error and has

Table 8 – Invoice Line Item Process Flow States

[R24] An Invoice API MUST support the states and transitions shown in Figure 2 and Table 8.



9.3 Payment Process Flow

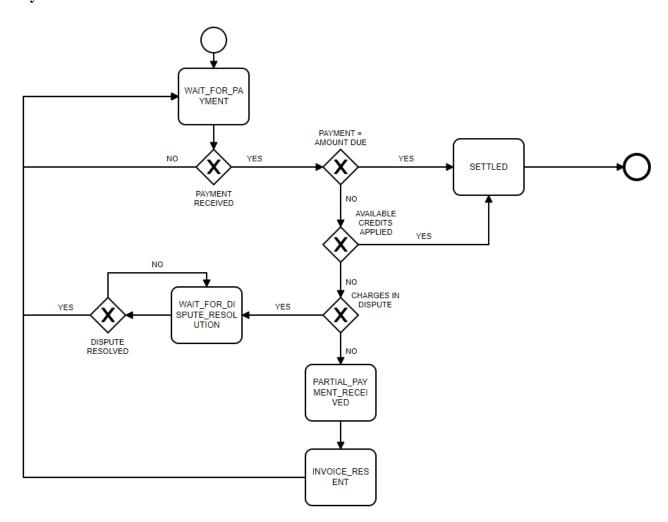


Figure 3 – Payment Process Flow

The states within the Payment Process Flow are described in Table 9.

State	Definition	Comments
INVOICE_RESENT	A partial payment on an	
	Invoice has been	
	received and the Seller	
	has sent an Invoice	
	Notification indicating	
	that the Invoice is not	
	Settled.	
PARTIAL_PAYMENT_RECEIVED	A partial payment on an	
	Invoice has been	
	received from the	
	Buyer.	



SETTLED	An Invoice for which all	
	payment due has been	
	received.	
WAIT_FOR_DISPUTE_RESOLUTION	The Buyer has disputed	
	charges on the Invoice	
	and the Dispute	
	Resolution process is in	
	progress.	
WAIT_FOR_PAYMENT	An Invoice Notification	
	has been sent and the	
	Seller is awaiting	
	payment from the	
	Buyer.	

Table 9 – Payment Process States

[R25] An Invoice API MUST support the states and transitions shown in Figure 3 and Table 9.

9.4 Dispute Process Flow

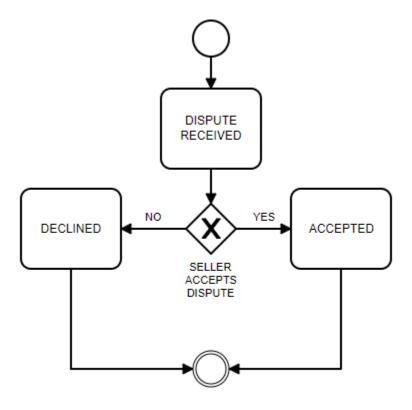


Figure 4 – Dispute Process Flow



The states within the Dispute process are shown in Table 10.

State	Definition	Comments
ACCEPTED	A dispute received from the	
	Buyer has been accepted by	
	the Seller.	
DECLINED	A dispute received from the	
	Seller has been declined by	
	the Seller.	
DISPUTE RECEIVED	A dispute has been received	
	from the Buyer	

Table 10 – Dispute Process States

[R26] An Invoice API MUST support the states and transitions shown in Figure 4 and Table 10.



10 References

- [1] IETF RFC 2119, Key words for use in RFCs to Indicate Requirement Levels, by S. Bradner, March 1997
- [2] IETF RFC 8174, *Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words*, by B. Leiba, May 2017, Copyright (c) 2017 IETF Trust and the persons identified as the document authors. All rights reserved.
- [3] MEF 50.1, MEF Forum, MEF Services Lifecycle Process Flows, MEF 50.1, August 2017.
- [4] TMF678, Customer Bill Management API Rest Specification R17.5.1, May 2018