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Description of

Partner Interface Process® for 3A17

Validated 11.01.00

Specification Information	
Name	Distribute Price and Availability Request
Cluster	Order Management
Segment	Quote and Order Entry
Publication Date	30 May 2012
Version Identifier	V11.01

Table of Contents

List of Figures:

List of Tables:

1 Document Management

1.1 Legal Disclaimer

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1.4 Acknowledgments

This document has been prepared by RosettaNet (http://www.rosettanet.org/) from requirements gathered during the Milestone Program and in conformance with the methodology.

Global eXchange Services	Seagate Technology
Sterling Commerce	Tyco Electronics
Arrow Electronics	E-Innovators
GridNode	

1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of 3A17 Message
- Messages Structure
- XML instance of ebXML BPSS for PIP 3A17

1.6 Document Version History

Version	Date	Description
Validated 11.00.00	1 February 2010	MCC Program
Validated 11.01.00	30 May 2012	Updated Version

1.7 Document Structure

A Partner Interface Process (PIP) Specification is comprised of the following two parts:

1. **Business Process.** Captures the semantics of the business process and the flow of the message exchange between roles as they perform business activities.

2. **Network and Implementation Specification.** Specifies the network protocol message formats and communications requirements between peer-protocols supported by network components in the RosettaNet Implementation Framework.

2 Business Process

The "Distribute Price And Availability Request" Partner Interface Process™ (PIP) enables a customer to obtain product price and availability information, for a specific period of time, from a product supplier. Price and availability checks are less formal than quotes and usually not reconciled with purchase orders.

A price and availability request may be complex and require business rule analysis to generate a response. To facilitate communications between the customer and the product supplier, the request includes both query lines and incomplete results lines.

Should this transaction not complete successfully, the requesting partner executes PIP0A1, "Notification of Failure."

2.1 PIP Scope Description

This PIP provides a buyer with product price and availability information used to identify potential suppliers.

2.2 PIP Business Documents

Business Documents are generated and exchanged by roles performing activities in this PIP. Business Documents are listed and defined in Table 1.

Table 1: PIP Business Document	
Business Document	**Description**
Price and Availability Request Notification	Requests produce price and availability from a Product Supplier.

2.3 PIP Business Process Flow Diagram
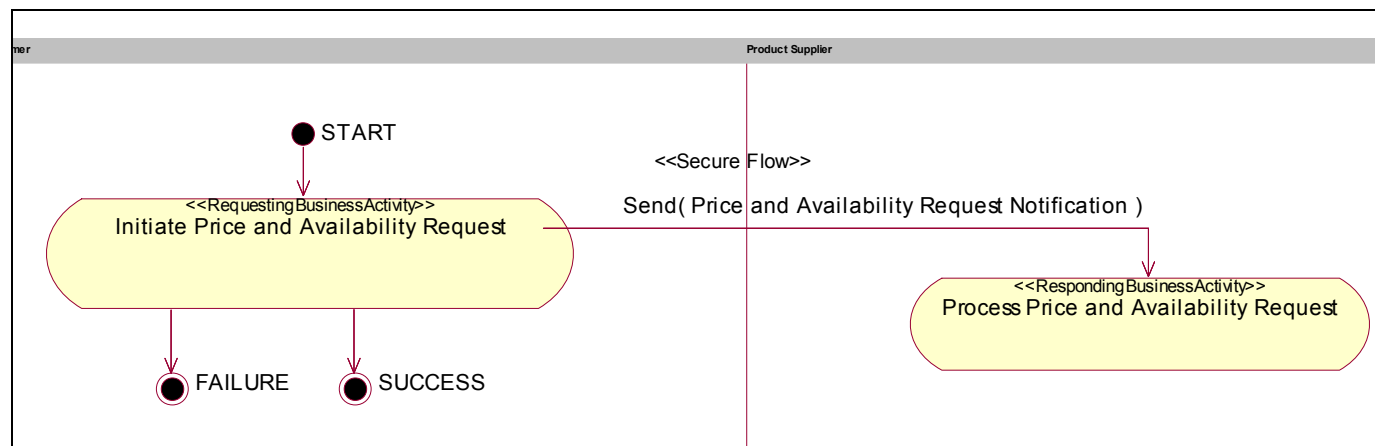
Figure 1: Activity Diagram

2.4 PIP Start State

The start state is comprised of the following conditions:

Table 2: PIP Start State							
		Exist					
	Approved	**Party**	**In Backend System**	**Valid**	**Non-Repudiated**	**Retry Count**	**Authorized**
TPA	✓		✓				
Sending Partner		✓		✓			
Receiving Partner		✓					
Business Document			✓	✓			

2.5   PIP End States

The end state is comprised of the following conditions:

Table 3: PIP End State							
	Approved	Exist		Valid	Non-Repudiated	Retry Count	Authorized
		Party	In Backend system				
Acknowledgment of Receipt			✓	✓			
Receiving Partner							✓

The PIP failure state is comprised of one or more of the following conditions:

Table 4: PIP Failure State		
	NO	Exceeded
Success	✓	
Retry Count		✓

2.6   Partner Role Descriptions

Table 5 describes the partner roles in this PIP.

Table 5: Partner Role Description	
Role Name	Role Description
Customer	This partner role creates a demand for a product or service.
Product Supplier	This partner role supplies product to customers in the supply chain.

2.7 Business Process Activity Controls

Table 6 describes the interactions between roles performing business activities in this PIP.

Table 6: Business Activity Description		
Role Name	**Activity Name**	**Activity Description**
Customer	Distribute Price and Availability Request	Requests product price and availability from a Product Supplier to determine if the Product Supplier can fulfill the Customer's purchasing requirements.

Table 7 details the security, audit and process controls relating to activities performed in the PIP.

Table 7: Business Activity Performance Control		Acknowledgment of Receipt					
Role Name	**Activity Name**	**Non-Repudiation Required?**	**Time to Acknowledge**	**Time to Perform**	**Retry Count**	**Is Authorization Required?**	**Non-Repudiation of Origin and Content?**
Customer	Distribute Price and Availability Request	N	2hrs	2hrs	3	N	N

3 Network and Implementation Specification

Each network component maps into a role of the PIP model. Table 8 specifies the mapping between roles and network components.

Table 8: Network Component Specification		
Network Component	**Classification**	**Maps to Role in Business Process**
Customer Service	Business Service	Customer
Product Supplier Service	Business Service	Product Supplier

3.1 Business Action and Business Signal Specifications

Each business action maps to a Business Document of the PIP model. Table 9 specifies the mapping between Business Documents and business actions.

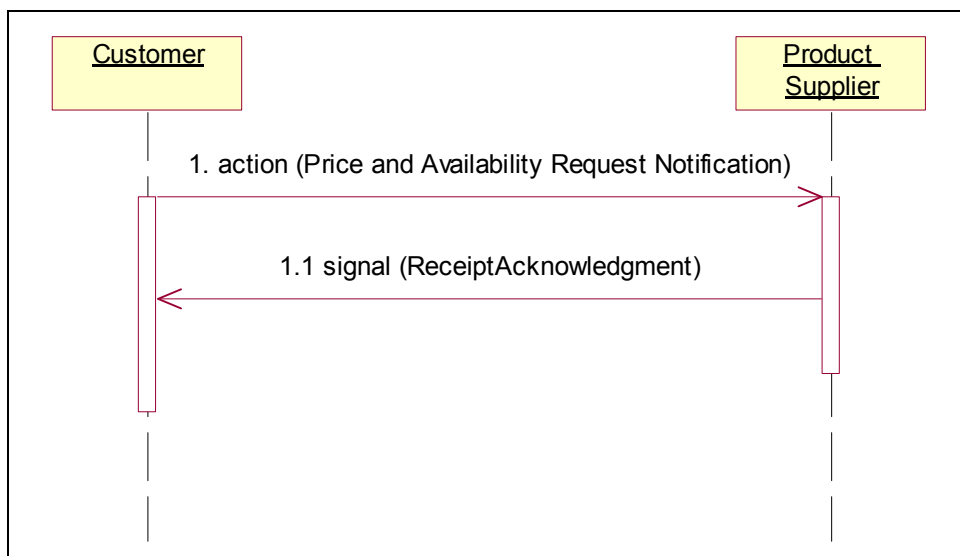| Table 9: Business Action – Business Document Mapping		
Business Action	**Business Document**	**Document Function**
Price and Availability Request Notification Action	Price and Availability Request Notification	Request

3.2 Business Transaction Dialog Specification

Figure 2: Sequence Diagram

3.3 Message Exchange Controls

#	Name	Time to Acknowledge Receipt Signal	Time to Respond to Action	Included in Time to Perform	Is Authorization Required?	Is Non-Repudiation Required?	Is Secure Transport Required?
	Table 10: Message Exchange Control						
1.	Price and Availability Request Notification Action	24hrs	24hrs	Y	N	N	Y
1.1.	Receipt Acknowledgment	N/A	N/A	Y	N	N	Y

3.4 Communications Specification

#	Business Message	Digital Signature Required?	SSL Required?
	Table 11: Dialog: Service-Service		
1.	Price and Availability Request Notification	Y	Y
1.1.	Receipt Acknowledgment	Y	Y