

Description of Partner Interface Process[®] for 4B2

Validated 11.01.00

Specification Information	
Name	Notify Of Shipment Receipt
Cluster	Inventory Management
Segment	Inventory Allocation
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1 Document Management

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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. Listed below are the legal entities that contributed to the design and development of this PIP.

BAX Global	Mitac International Corp.
Cisco System, Inc.	Sterling Commerce
Danzas	Menlo Worldwide
GridNote, Inc.	MIMOS Berhad.
GridNote Pte, Ltd.	Intel Corporation

1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of 4B2 Message
- Messages Structure
- XML instance of ebXML BPSS for PIP 4B2

1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Validated 11.00.00	01 July 2008	Validated Version - RosettaNet Schema to Market to Validation 2008
Validated 11.00.01	22 July 2009	Internal Maintenance Release
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

2.1 Business Process Definition

This PIP enables a consignee to report the delivery, receipt and status of a shipment to interested parties.

2.1.1 Executive Summary

All businesses that sell products existing as physical goods, such as raw materials, components and finished goods, must deliver them from their manufacturing or storage location to the customer's location. This physical movement of products may involve several parties. The first party to the shipment is usually the seller, which initiates the shipping of the products. The second party is usually the buyer, as the eventual consignee to which the products are shipped. Additionally, there may be third-party logistics (3PL) and even fourth-party logistics (4PL) providers, offering services to the shipper such as outsourced light manufacturing, product warehousing, routing and tracking, in addition to physically transporting the products.

2.1.2 Business Process Description

The "Notify of Shipment Receipt" Partner Interface Process™ (PIP) supports a process between two of these parties, in which a **Consignee** notifies a Shipment Information User that goods have been received. The **Consignee** is the organization receiving the shipment, such as an end-customer receiving products from a supplier, or a 3PL-operated warehouse receiving finished goods from a contract manufacturer. The Shipment Information User is an organization that is part of the supply chain involved in the shipment, which needs to know that the shipment has been received, such as a manufacturer, distributor, contract manufacturer or third-party logistics provider.

The **Consignee** initiates a transaction using this PIP after it has verified the validity of the shipment and its contents. It might, for example, compare the shipment to a previously placed purchase order or to a sales document that initiated the process. The **Consignee** may assume ownership of the received goods and, therefore, may be legally responsible if the goods are exported.

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

2.1.3 Business Process Context Diagram

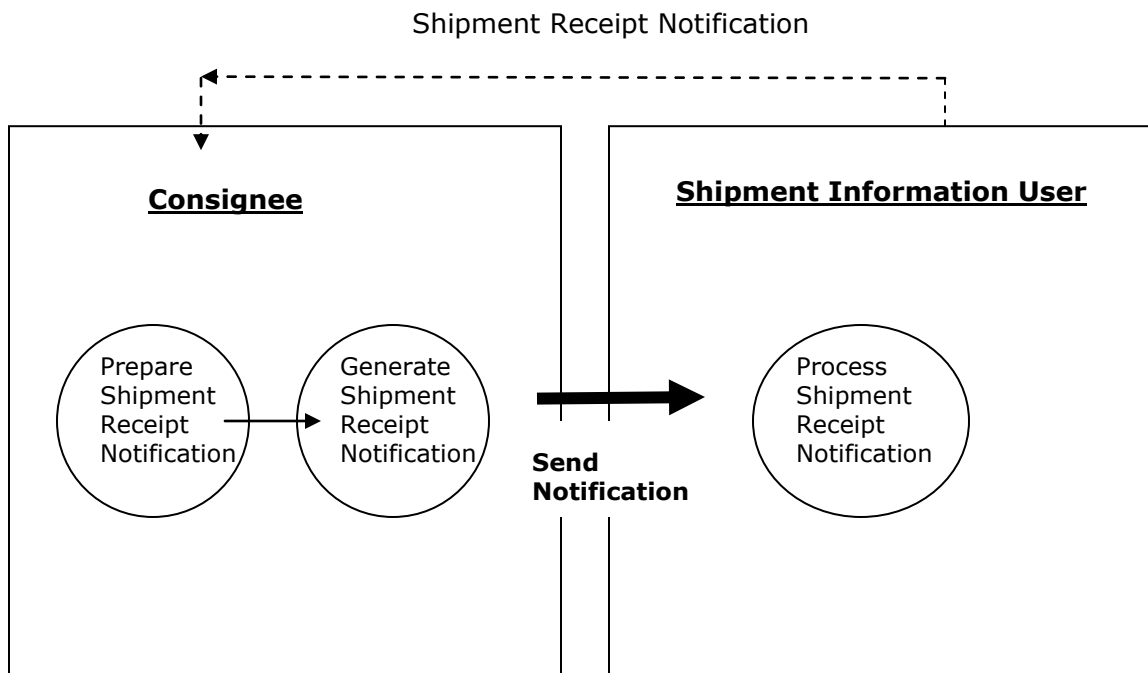


Figure 1: High-level Context Diagram

2.2 PIP Scope Description

This PIP enables a consignee to report the delivery, receipt and status of a shipment to interested parties.

2.2.1 Business Process Scope Diagram

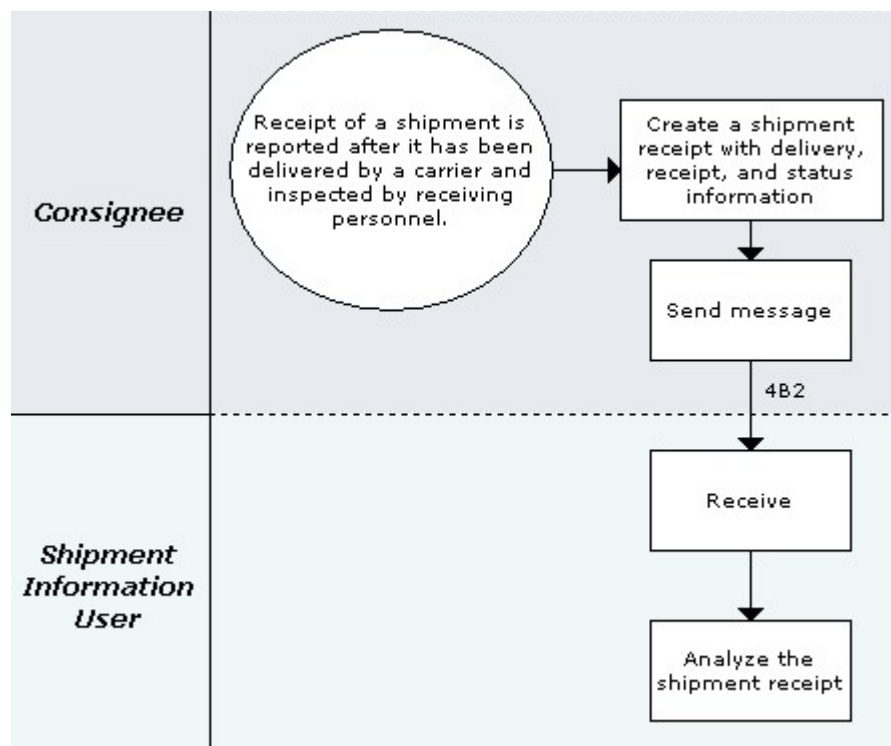


Figure 2: Business Process Scope Diagram

2.3 PIP Business Document

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

Table 1: PIP Business Document	
Business Document	Description
Shipment Receipt Notification	Communicates the status of received product within a shipment. Contains product-level detail. Used when exceptions exist, or when the receiving process was successful. When exceptions exist, the shipment receipt notification indicates the reason(s). Examples of reasons: received without exception, short shipped, overage, wrong material, expired dates, wrong quantity, internal change, and defective.

2.4 PIP Business Process Flow Diagram

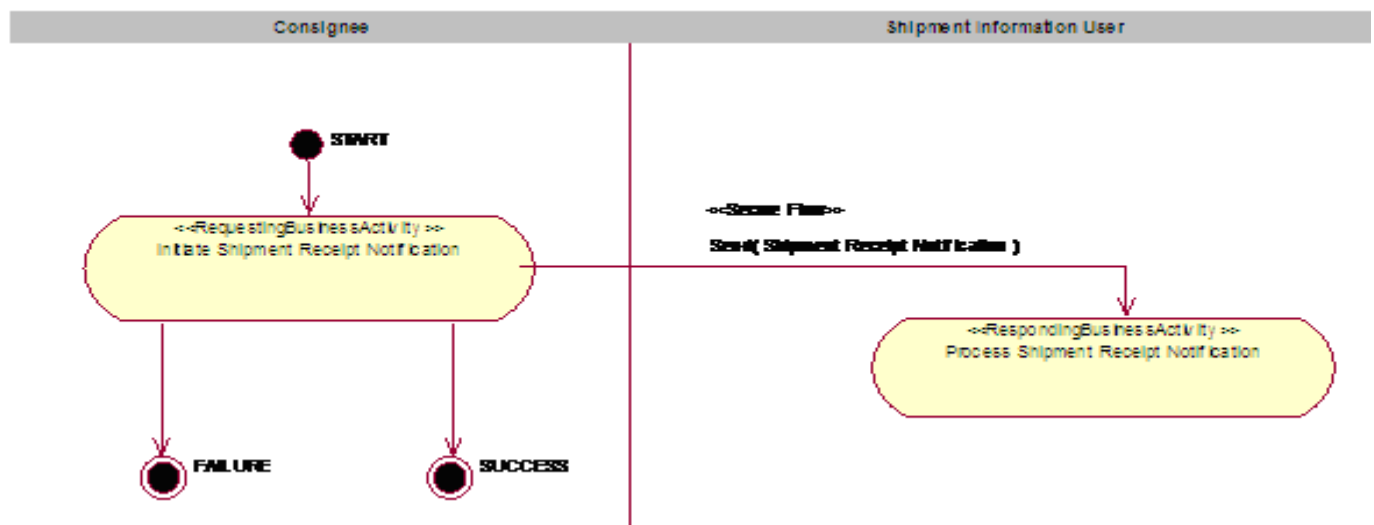


Figure 3: Activity Diagram of Notify Of Shipment Receipt

2.5 PIP Start State

The start state is comprised of the following conditions:

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

2.6 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		✓

2.7 Partner Role Descriptions

Table 5 describes the partner roles in this PIP.

Table 5: Partner Role Description	
Role Name	Role Description
Consignee	The receiver of the shipment.
Shipment Information User	The party who receives shipment status information.

2.8 Business Process Activity Controls

Table 6 describes the interaction between roles performing business activity in this PIP.

Table 6: Business Activity Description		
Role Name	Activity Name	Activity Description
Consignee	Initiate Shipment Receipt Notification	A Consignee notifies a Shipment Information User of a shipment's receipt and status.

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

Table 7: Business Activity Performance Control							
Role Name	Activity Name	Acknowledgment of Receipt		Time to Perform	Retry Count	Is Authorization Required?	Non-Repudiation of Origin and Content?
		Non-Repudiation Required?	Time to Acknowledge				
Consignee	Initiate Shipment Receipt Notification	Y	2 hrs	N/A	3	N	Y

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
Consignee Service	Business Service	Consignee
Shipment Information User Service	Business Service	Shipment Information User

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
Shipment Receipt Notification Action	Shipment Receipt Notification	Request

3.2 Business Transaction Dialog Specification

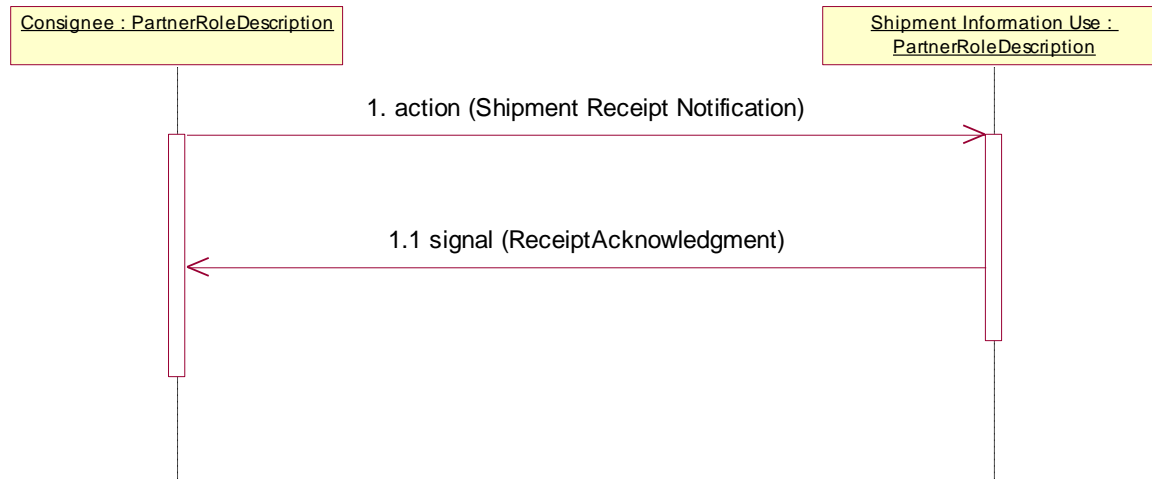


Figure 4: Sequence Diagram of Notify Of Shipment Receipt

3.2.1 Message Exchange Controls

Table 10: Message Exchange Control							
#	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?
1.	Shipment Receipt Notification Action	2 hrs	N/A	N/A	N	Y	Y
1.1.	Receipt Acknowledgment	N/A	N/A	N/A	N	Y	Y

3.2.2 Communications Specification

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