

# Description of Partner Interface Process<sup>®</sup> for 3B2

**Validated 11.03.00**

<b>Specification Information</b>	
<b>Name</b>	Notify Of Advance Shipment
<b>Cluster</b>	Order Management
<b>Segment</b>	Transportation and Distribution
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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.

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SMSC	UPS Supply Chain Solutions
Standard Microsystems Corporation	Air Products & Chemicals (APCI)

LINDE (formally BOC Edwards)	Intel
IBM	InSync Software
ATMI	

## 1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of Advance Shipment Notification Message
- Advance Shipment Notification Messages Structure
- XML instance of ebXML BPSS for PIP 3B2

## 1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Validated 11.00.00	27 July 2006	RosettaNet Automated Enablement (RAE) Milestone Program
Validated 11.01.00	25 July 2008	Certificate of Analysis (CofA) Milestone Program
Validated 11.02.00	15 November 2009	Maintenance Q4 2009

## 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

The "Notify Of Advance Shipment" Partner Interface Process™ (PIP) allows a Shipper to notify a Receiver that a shipment has been assigned. The purpose of the Advance Shipment Notification is to communicate at the detailed product level the contents of a shipment, when the shipment is expected to arrive, and other shipment information.

This Notification is often a part of the shipment process. In a shipping scenario, the shipment can be split once it reaches the destination, causing a need to issue a new Advance Shipment Notification.

This Notification is intended to satisfy shipment data needs of shippers and receivers.

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

#### 2.1.1 Business Process Description

The primary purpose of this PIP is to

- facilitate receiving product shipments
- provide information unique for a shipment
- provide information needed for further transportation and distribution.

The primary information users are

- logistical service providers
- consignees (ultimate receiver)

Other purposes for this PIP include

- materials management
- facilitating paperless invoicing (aka pay upon receipt or pay upon shipment)

Other information users include

- material managers (buyer/planners and people responsible for materials movement)
- product end users
- accounts payable personnel
- transportation service providers (carriers)

## 2.2 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
Advance Shipment Notification	The Advance Shipment Notification contains detailed information on when product shipped, expected date of arrival, how product shipped, and detail of the shipment contents.

## 2.3 PIP Business Process Flow Diagram

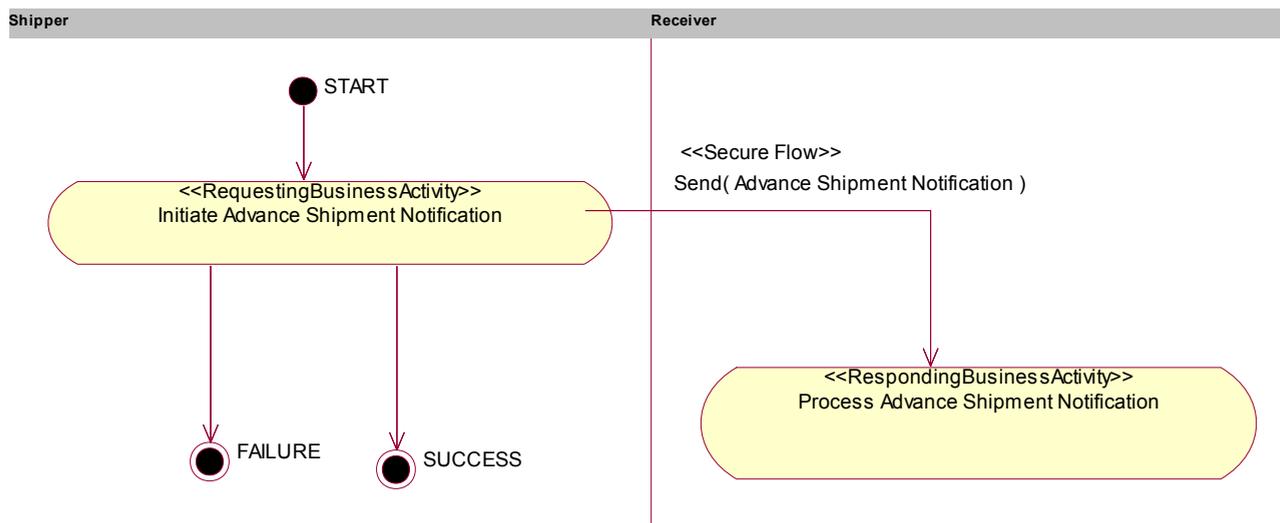


Figure 1: Activity Diagram of Notify Of Advance Shipment

### 2.4 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			✓	✓	✓		✓

### 2.5 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.

<b>Table 5: Partner Role Description</b>	
<b>Role Name</b>	<b>Role Description</b>
Shipper	The party who relinquishes (assigns) a shipment to a transport service provider.
Receiver	The Receiver is the intended recipient of products or business information. The Receiver may verify receipt if prescribed.

## 2.7 Business Process Activity Controls

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

<b>Table 6: Business Activity Description</b>		
<b>Role Name</b>	<b>Activity Name</b>	<b>Activity Description</b>
Shipper	Initiate Advance Shipment Notification	A Shipper issues an Advance Shipment Notification to a Receiver.

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

<b>Table 7: Business Activity Performance Control</b>							
<b>Role Name</b>	<b>Activity Name</b>	<b>Acknowledgment of Receipt</b>		<b>Time to Perform</b>	<b>Retry Count</b>	<b>Is Authorization Required?</b>	<b>Non-Repudiation of Origin and Content?</b>
		<b>Non-Repudiation Required?</b>	<b>Time to Acknowledge</b>				
Shipper	Initiate Advance Shipment Notification	Y	30mins	N/A	3	Y	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
Shipper Service	Business Service	Shipper
Receiver Service	Business Service	Receiver

#### 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
Advance Shipment Notification Action	Advance Shipment Notification	Request

#### 3.2 Business Transaction Dialog Specification

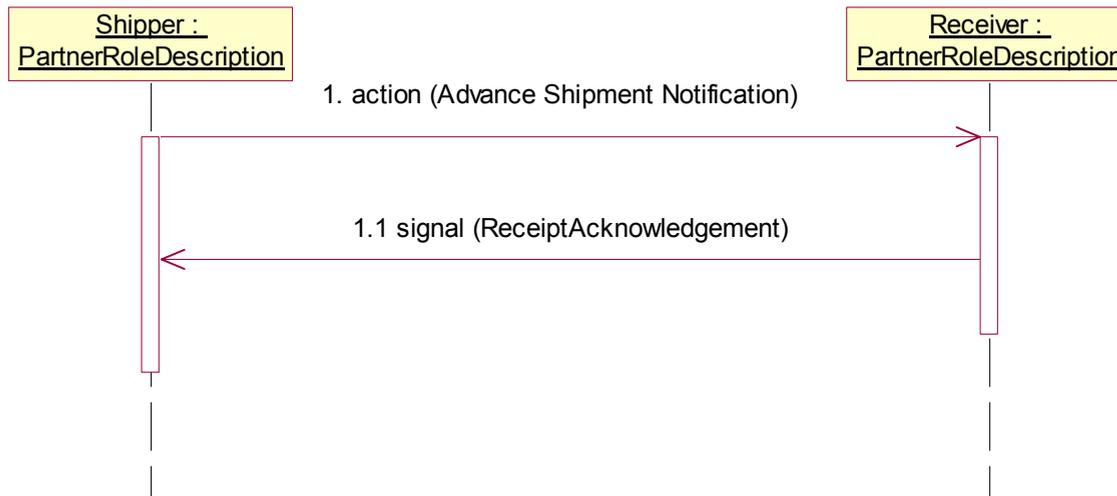


Figure 2: Sequence Diagram of Notify Of Advance Shipment

**3.2.1 Message Exchange Controls**

<b>Table 10: Message Exchange Control</b>							
#	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.	Advance Shipment Notification Action	30mins	N/A	N/A	Y	Y	Y
1.1.	Receipt Acknowledgment	N/A	N/A	N/A	Y	Y	Y

**3.2.2 Communications Specification**

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