

# Description of Partner Interface Process<sup>®</sup> for 4C1

**Validated 11.02.00**

<b>Specification Information</b>	
<b>Name</b>	Distribute Inventory Report
<b>Cluster</b>	Inventory Management
<b>Segment</b>	Inventory Reporting
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# 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. Listed below are the legal entities that contributed to the design and development of this PIP.

RosettaNet did not capture the name of companies or individuals which participated during the development of this PIP.

## 1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of 4C1 Message
- Messages Structure
- XML instance of ebXML BPSS for PIP 4C1

## 1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Validated 11.00.00	07 July 2008	RosettaNet Schema to Market to Validation 2008
Validated 11.01.00	7 Aug 2009	Q32009 Maintenance Process
Validated 11.02.00	7 Aug 2009	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

The purpose of this PIP is to send an Inventory Information Provider's inventory report to an Inventory Information User.

#### 2.1.1 Executive Summary

Distribute Inventory Report standardizes the inventory report distribution process by defining a common vocabulary for transmission of inventory report information. The value propositions of this initiative are:

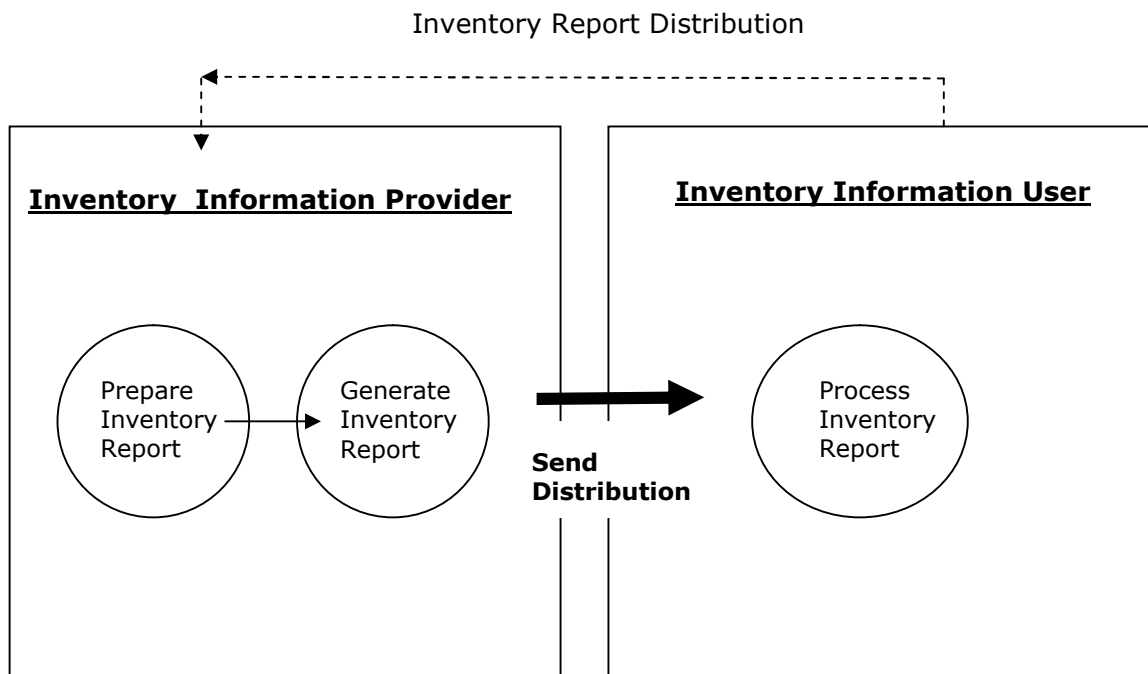
- Standards based inventory report information increases trading partners (inventory information provider and inventory information user) business efficiency.
- Standards based inventory report information decreases IT support resources and overhead required to assure data integrity.
- Standards based inventory report information enables on demand problem resolution between the trading partners.
- Standards based inventory report information enables rapid new partner setup in B2B environment.
- Standards based inventory report information can be used as a quantifiable metric for customer satisfaction.

#### 2.1.2 Business Process Description

The "Distribute Inventory Report" Partner Interface Process™ (PIP) supports a process in which an Inventory Information Provider reports the status of the inventory owned or held by the Inventory Information Provider to an Inventory Information User. The inventory report can include any product, active or inactive, held in inventory.

The Inventory Information User may use PIP4C3, "Inventory Error Notification," to inform an Inventory Information Provider of errors in an inventory report.

### 2.1.3 Business Process Context Diagram

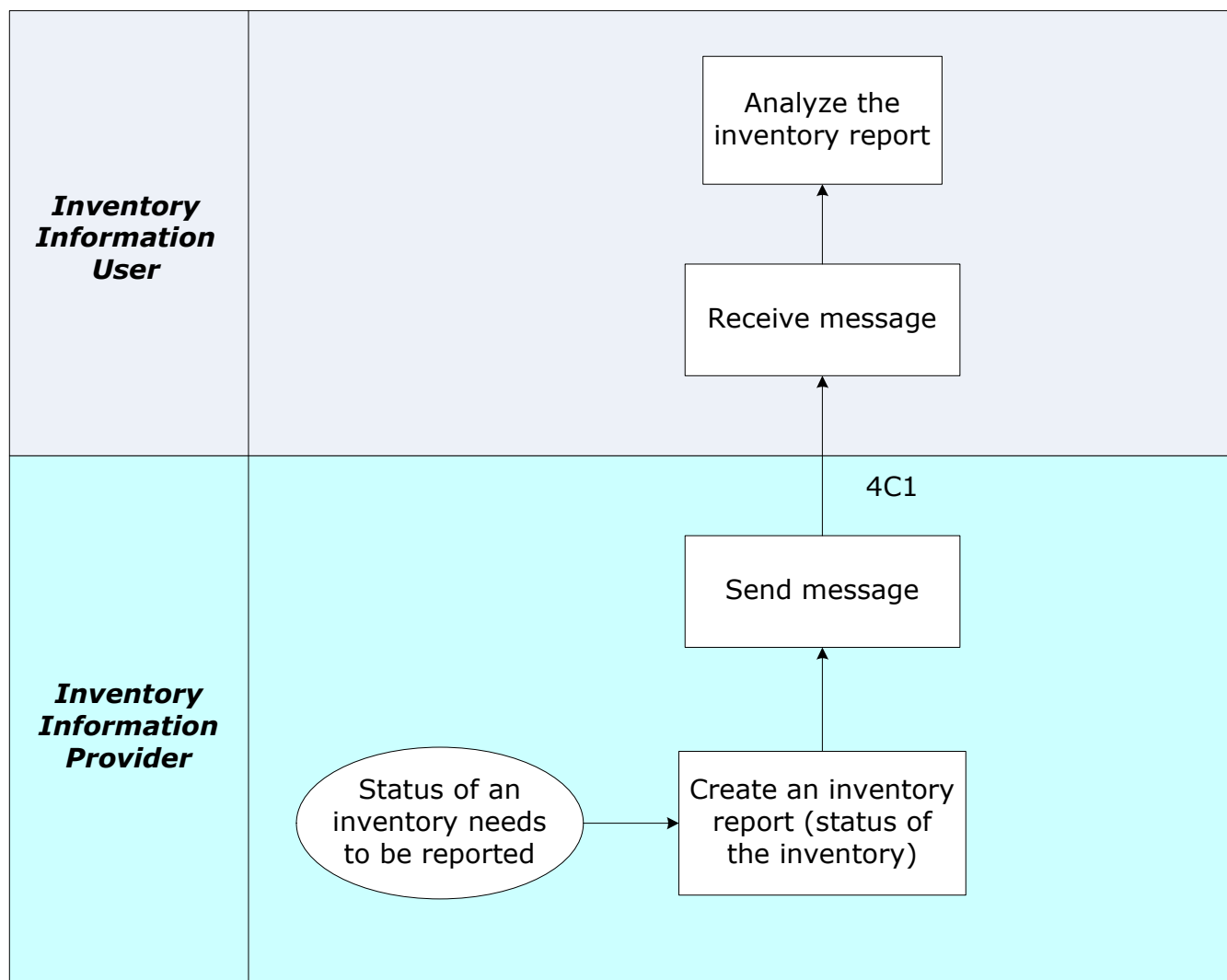


**Figure 1: High-level Context Diagram**

## 2.2 PIP Scope Description

This PIP enables an inventory information provider to send an inventory report to inventory information user.

### 2.2.1 Business Process Scope Diagram



**Figure 2: Business Process Scope Diagram**



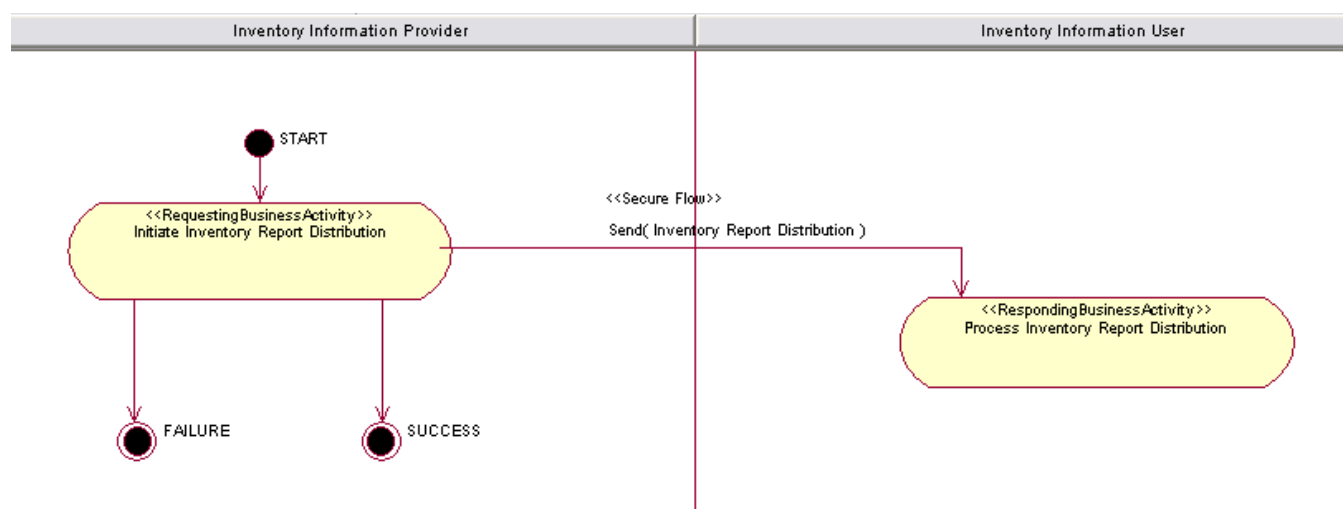
## 2.3 PIP Business Document

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
Inventory Report Distribution	Contains inventory status and quantity data for a given reporting period. The inventory status of a product is reported in various categories, e.g., quantity at a location, quantity owned, quantity in transit between locations and details of the raw materials.

## 2.4 PIP Business Process Flow Diagram



**Figure 3: Activity Diagram of Distribute Inventory Report**

## 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.

<b>Table 5: Partner Role Description</b>	
<b>Role Name</b>	<b>Role Description</b>
Inventory Information Provider	An organization that owns or holds inventory and provides information about this inventory to partners in the supply chain. This may be a distributor, contract manufacturer, supplier or OEM reporting inventory that they hold and/or own.
Inventory Information User	An employee or organization that uses information about inventory.

## 2.8 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>
Inventory Information Provider	Initiate Inventory Report Distribution	An Inventory Information Provider sends an inventory Report Notification business document to an Inventory Information User.

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>				
Inventory Information Provider	Initiate Inventory Report Distribution	N	2 hrs	N/A	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
Inventory Information Provider Service	Business Service	Inventory Information Provider
Inventory Information User Service	Business Service	Inventory Information User

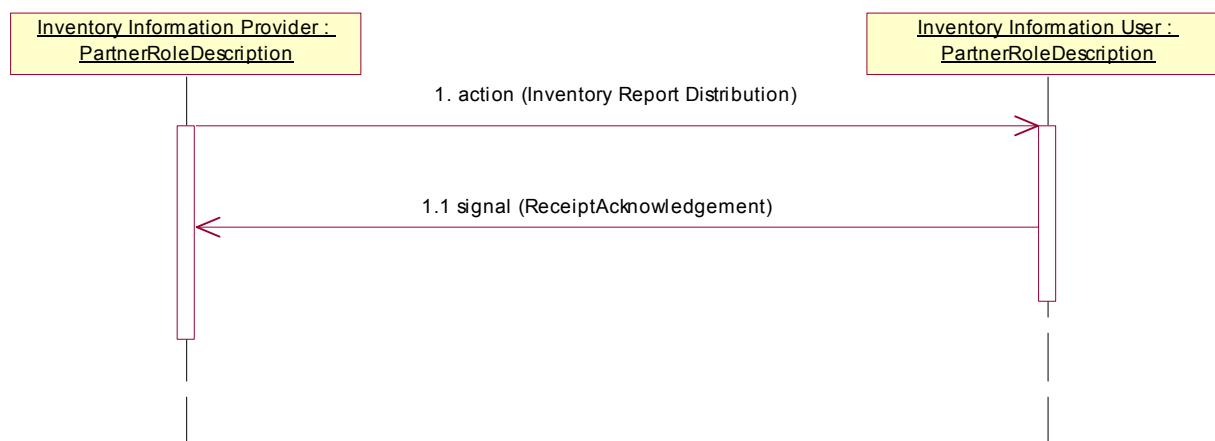
#### 3.1 Business Action and Business Signal Specifications

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
Inventory Report Distribution Action	Inventory Report Distribution	Request

#### 3.2 Business Transaction Dialog Specification



**Figure 4: Sequence Diagram of Distribute Inventory Report**

### 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.	Inventory Report Distribution Action	2 hrs	N/A	N/A	N	N	Y
1.1.	Receipt Acknowledgment	N/A	N/A	N/A	N	N	Y

### 3.2.2 Communications Specification

Table 11: Dialog: Service-Service			
#	Business Message	Digital Signature Required?	SSL Required?
1.	Inventory Report Distribution	N	Y
1.1.	Receipt Acknowledgment	N	Y