

# Description of Partner Interface Process<sup>®</sup> for 3C3

**Validated 11.04.00**

<b>Specification Information</b>	
<b>Name</b>	Notify of Invoice
<b>Cluster</b>	Order Management
<b>Segment</b>	Returns and Finance
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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.

## 1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of 3C3 Message
- Messages Structure
- XML instance of ebXML BPSS for PIP 3C3

## 1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Validated 11.00.00	04 April 2006	Validated Version
Validated 11.01.00	02 June 2006	Validated Version
Validated 11.02.00	22 August 2006	Validated Version
Validated 11.03.00	24 July 2007	Validated Version
Validated 11.04.00	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

The "Notify of Invoice" Partner Interface Process™ (PIP) enables a provider to invoice another party, such as a buyer or financing processor, for goods or services performed. A financing processor is an organization that helps a seller obtain financing by serving as an intermediary between the seller and financiers.

#### 2.1.1 Executive Summary

Notify of Invoice standardizes the invoice notification process by defining a common vocabulary for transmission of invoice information. The value propositions of this initiative are:

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

#### 2.1.2 Business Process Description

The "Notify of Invoice" Partner Interface Process (PIP) supports the process to send invoice information to a trading partner.

Invoicing occurs after a purchase order is issued with PIP3A4, "Request Purchase Order" and a packing slip has been generated. For some transactions, the original financial invoice must be attached to the shipment or sent in advance of the physical shipment; thus, the invoice must be generated prior to the time of shipment. The creation of a packing slip shall suffice to generate the invoice. An invoice can be a credit or a debit memo.

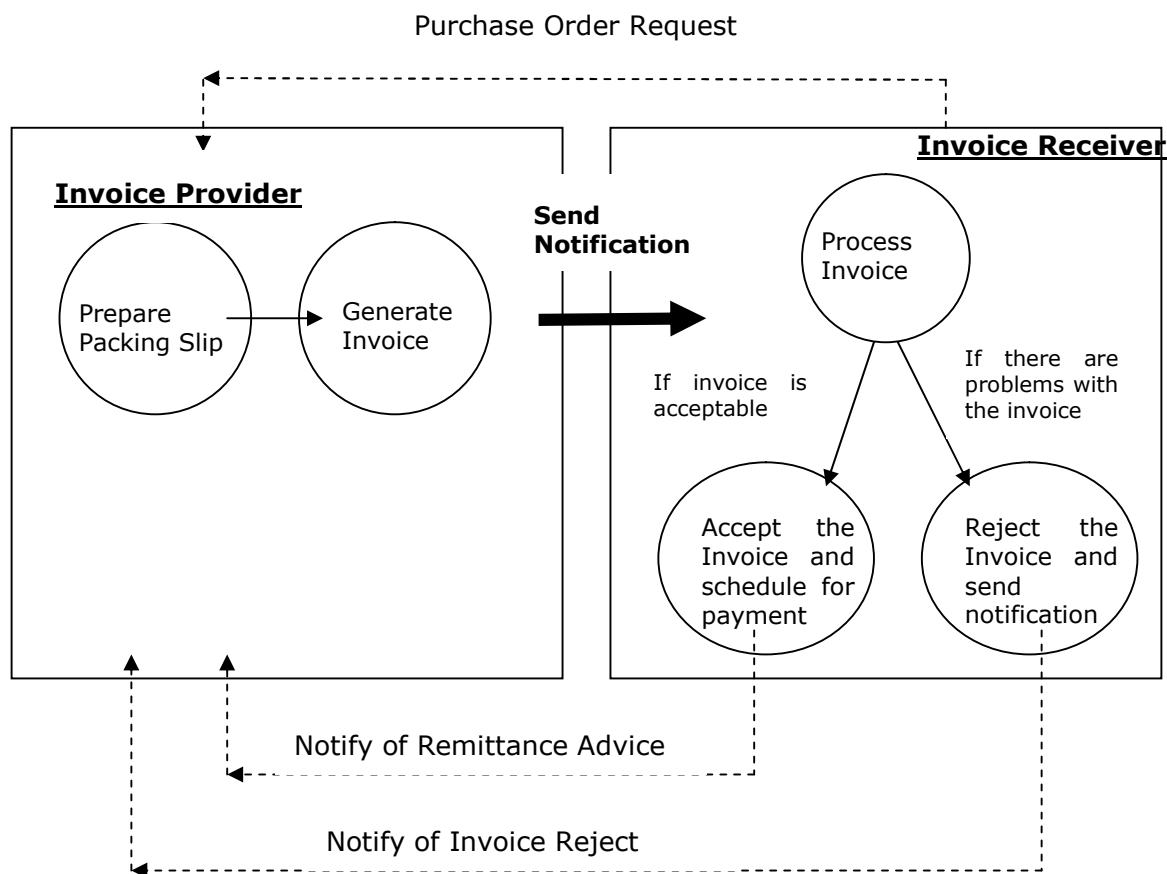
If the original invoice is sent to a financing processor, the financing processor may re-issue the invoice to the buyer.

The invoice is audited by the recipient's internal systems. If the invoice is valid, payment may be scheduled for payment using PIP3C6, "Notify of Remittance Advice." If the invoice is not valid, it may be rejected using PIP3C4, "Notify of Invoice Reject."

The time to perform is the same for all parties, including the financing processor.

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

### 2.1.3 Business Process Context Diagram

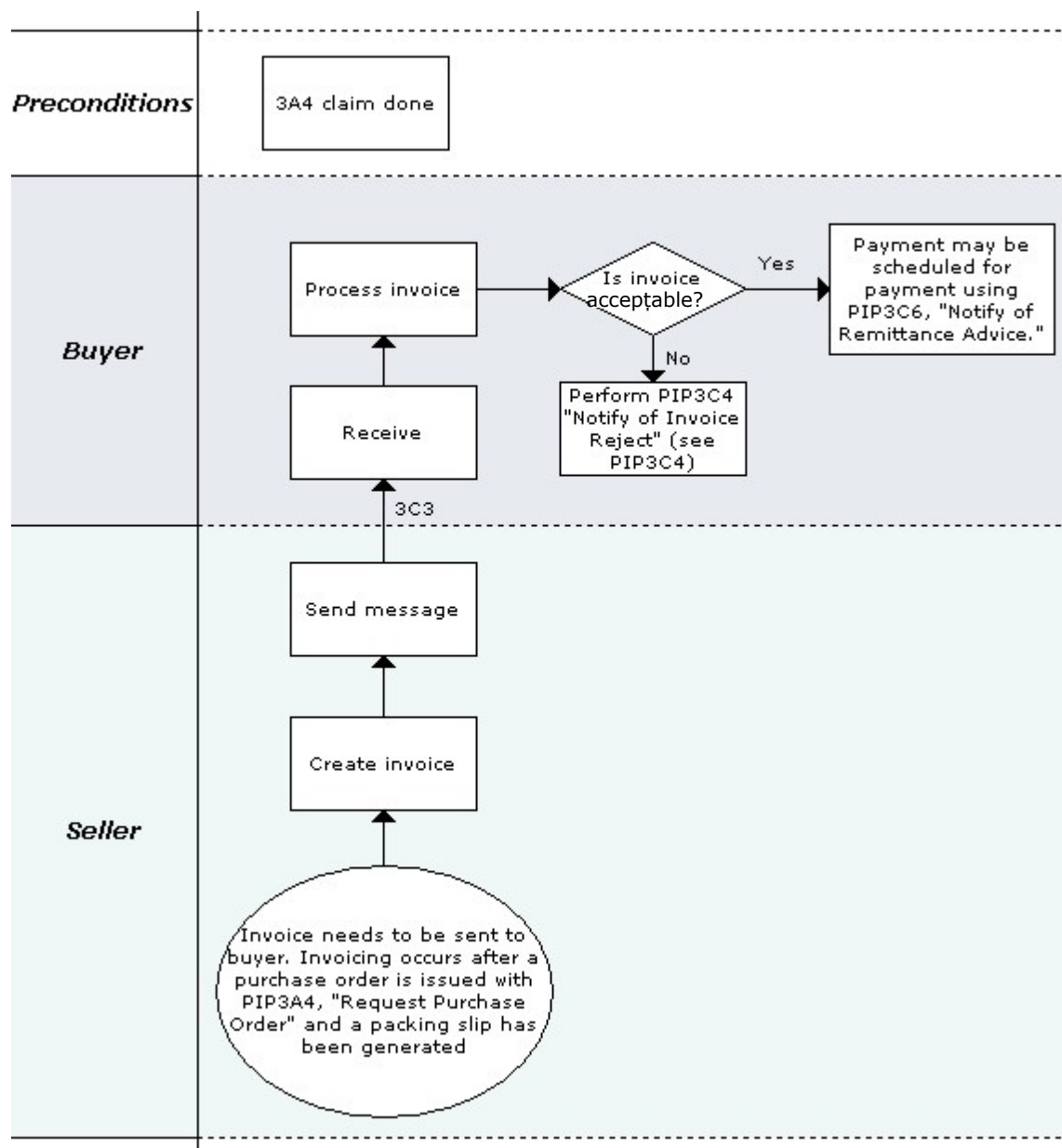


**Figure 1: High-level Context Diagram**

## 2.2 PIP Scope Description

This PIP enables a provider to send an original invoice to another party, such as a buyer or financing processor.

### 2.2.1 Business Process Scope Diagram



**Figure 2: Business Process Scope Diagram**

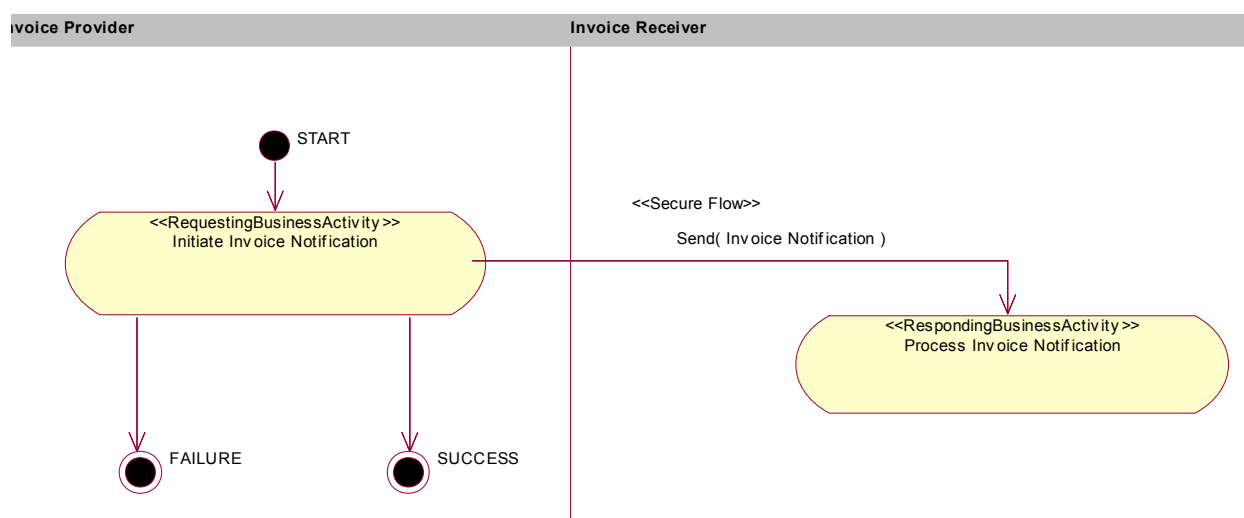


## 2.3 PIP Business Document

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
Invoice Notification	Presents an invoice for products purchased and shipped or for services that have been purchased or contracted. The invoice may be either a credit or a debit memo The conditions that trigger the generation of an invoice may vary by organization.

## 2.4 PIP Business Process Flow Diagram



**Figure 3: Activity Diagram of Invoice Notification**

## 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>
Invoice Provider	The organization that generates the invoice.
Invoice Receiver	The organization being invoiced.

## 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>
Invoice Provider	Initiate Invoice Notification	The Invoice Provider issues an Invoice Notification to an Invoice Receiver, who could be a financing processor (if the order is financed) or a buyer (if the order is not financed).

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>				
Invoice Provider	Initiate Invoice Notification	Y	2 hrs	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.

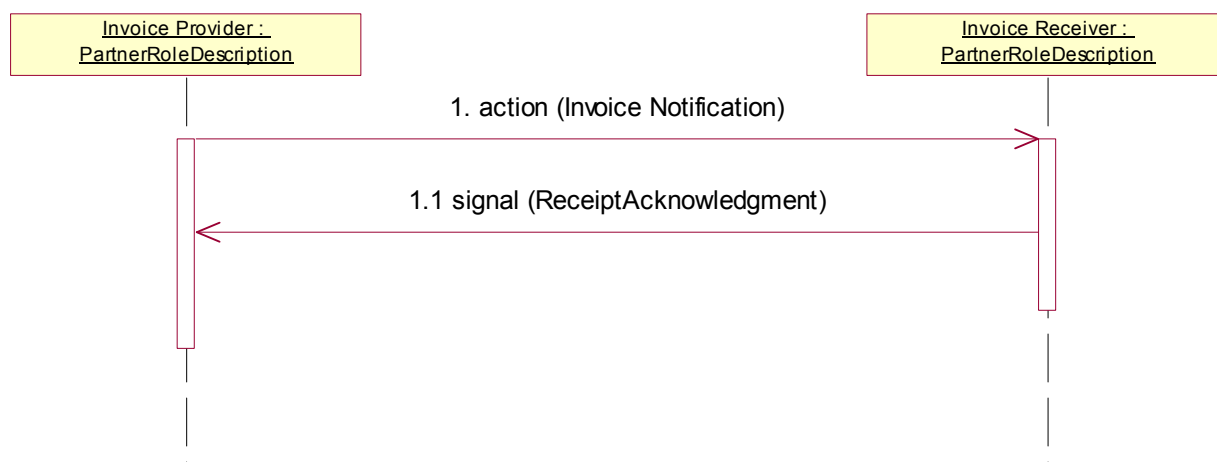
<b>Table 8: Network Component Specification</b>		
<b>Network Component</b>	<b>Classification</b>	<b>Maps to Role in Business Process</b>
Invoice Provider Service	Business Service	Invoice Provider
Invoice Receiver Service	Business Service	Invoice Receiver

### 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
Invoice Notification Action	Invoice Notification	Notification

### 3.2 Business Transaction Dialog Specification



**Figure 4: Sequence Diagram of Invoice Notification**

**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.	Invoice Notification	2 hrs	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****Table 11: Dialog: Service-Service**

#	Business Message	Digital Signature Required?	SSL Required?
1.	Invoice Notification	Y	Y
1.1.	Receipt Acknowledgment	Y	Y