

# Description of Partner Interface Process® for 3C7

**Validated 11.03.00**

<b>Specification Information</b>	
<b>Name</b>	Notify Of Self Billing Invoice
<b>Cluster</b>	Order Management
<b>Segment</b>	Returns and Finance
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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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National Semiconductor GMBH	Nokia Oyj
Philips Semiconductors	Sterling Commerce
STMicroelectronics	Texas Instruments
Texas Instruments (Global)	Texas Instruments Limited

## 1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of 3C7 Message
- Messages Structure
- XML instance of ebXML BPSS for PIP 3C7

## 1.6 Document Version History

<b>Version</b>	<b>Date</b>	<b>Description</b>
Validated 11.00.00	19 July 2006	Validated Version
Validated 11.01.00	21 September 2007	Validated Version Milestone Program: Schema2Market
Validated 11.02.00	25 September 2009	Validated Version for 2009 Maintenance
Validated 11.03.00	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 purpose of this PIP, Notify of Self Billing Invoice is to enable customer to send self billing invoice to supplier for authorizing consolidated payment for received goods based on received or used/consumed quantities of goods.

#### 2.1.1 Business Process Description

The "Notify of Self Billing Invoice" Partner Interface Process™ (PIP) is based on traditional invoice process, associated with liability settlements arising from business transactions between customer and supplier. The difference between self billing invoice and traditional invoice process is self billing is the procedure for authorizing payment on the customer side for received or used quantities of goods under two different business scenarios. On both conditions prices must be pre-negotiated and maintained by both the customer and the supplier.

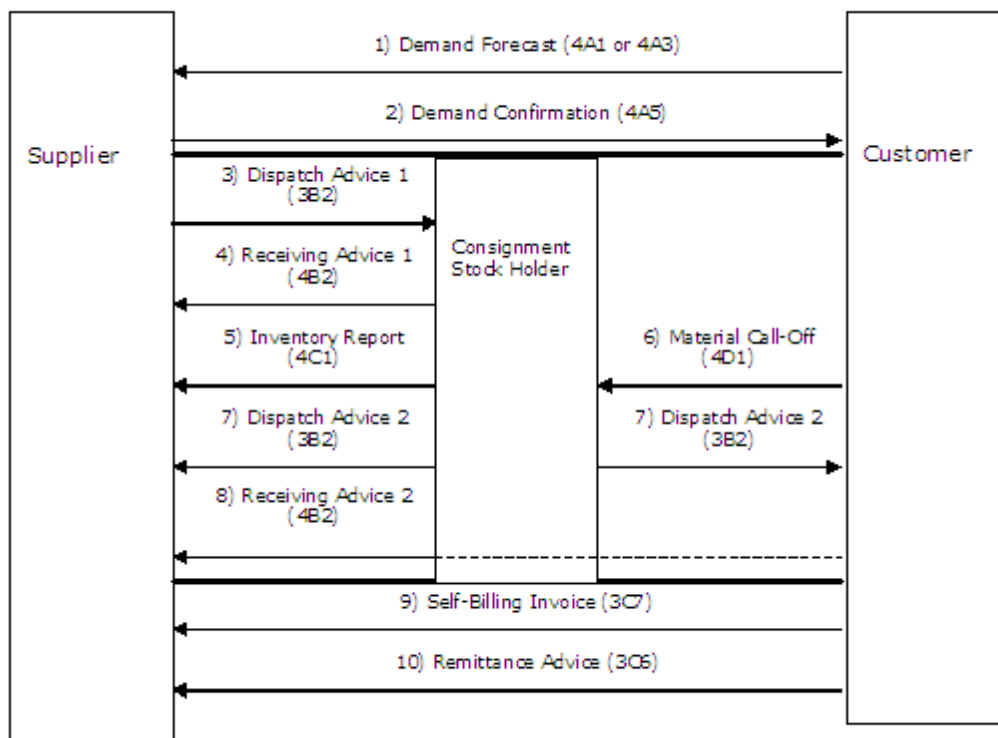
The two distinct business scenarios where self billing is used:

- Consignment Stock
- Evaluated Receipt Settlement (ERS), which is a non-consignment Self Billing Invoice

## 2.1.2 Business Process Context Diagram

### Consignment Stock

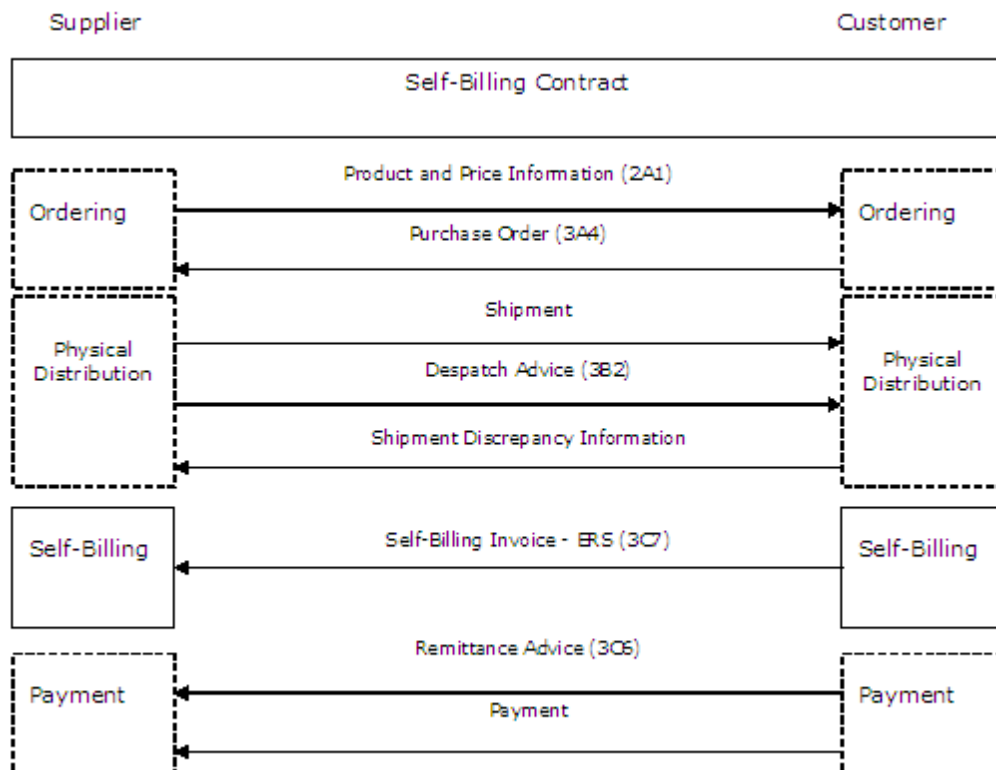
Goods on consignment are goods that are physically delivered to a customer or his agent but which remain the property of the supplier until the goods are consumed by the customer. When self billing on consignment is used, the customer issues the invoice for the goods used by him from the consignment stock.



**Figure 1-1: Consignment Stock Scenario**

**Evaluated Receipt Settlement (Non-Consignment)**

The self billing procedure whereby the customer issues the invoice in respect of a shipment, after physical receipt of the shipment.



**Figure 1-2: Evaluated Receipt Settlement (Non-Consignment) Scenario**

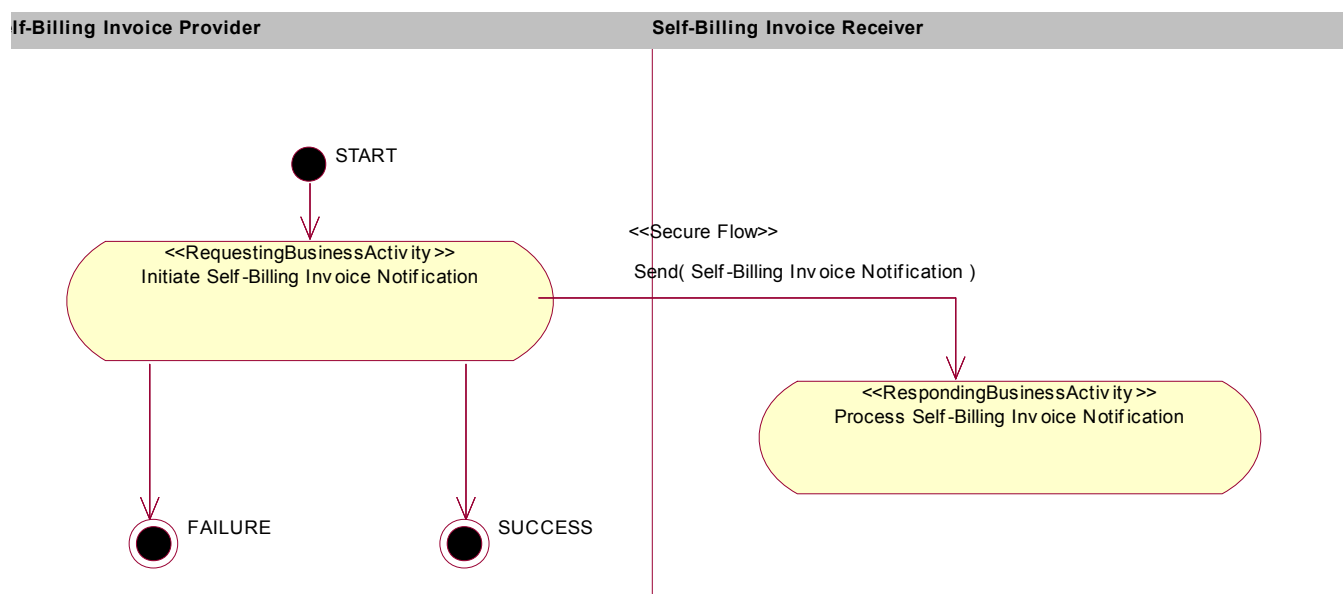


## 2.2 PIP Business Document

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
Self Billing Invoice Notification	Presents a self billing invoice for products purchased and shipped or for services that have been purchased or contracted. The self billing invoice may only be a credit in self billing scenarios. The conditions that trigger the generation of a self billing invoice may vary by organization.

## 2.3 PIP Business Process Flow Diagram



**Figure 2: Activity Diagram of Notify Of Self Billing Invoice**

## 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>
Self Billing Invoice Provider	The organization that generates the self billing invoice plus being invoiced. It can re-issue the self billing invoice.
Self Billing Invoice Receiver	The organization that provides the services or goods. The organization that receives the payment.

## 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>
Self Billing Invoice Provider	Initiate Self Billing Invoice Notification	The Self Billing Invoice Provider issues a Self Billing Invoice Notification to a Self Billing Invoice Receiver, who could be the service provider or goods supplier.

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>				
Self Billing Invoice Provider	Initiate Self Billing 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.

Table 8: Network Component Specification		
Network Component	Classification	Maps to Role in Business Process
Self Billing Invoice Provider Service	Business Service	Self Billing Invoice
Self Billing Invoice Receiver Service	Business Service	Self Billing 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
Self Billing Notification Action	Self Billing Invoice Notification	Request

#### 3.2 Business Transaction Dialog Specification



**Figure 3: Sequence Diagram of Notify Of Self Billing Invoice**

**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.	Self Billing Invoice Notification Action	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**

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