

# PIP<sup>®</sup> Specification

## **Cluster 2: Product Information Segment C: Product Design Information**

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### PIP2C12: Notify of Approved Manufacturer List Confirmation

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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.rosettanel.org/>) from requirements gathered during the Milestone Program and in conformance with the methodology.

## 1.5 Prerequisites

The audience should be familiar with the RosettaNet User's Guide, "Understanding a PIP Blueprint."

## 1.6 Related Documents

- Associated PIP Message Guidelines (included with PIP Specification)
- Associated PIP Message Schemas (included with PIP Specification)
- RosettaNet Business Dictionary

## 1.7 Document Version History

<u>Version</u>	<u>Date</u>	<u>Validated</u>
Validated 01.00.00	13 Mar 2015	Validated Version

## 2 Introduction

A Partner Interface Process™ (PIP) Specification comprises the following three views of the ebusiness PIP model.

1. **Business Operational View (BOV).** Captures the semantics of business data entities and their flow of exchange between roles as they perform business activities. The content of the BOV section is based on the PIP Blueprint document created for RosettaNet's business community.
2. **Functional Service View (FSV).** Specifies the network component services and agents and the interactions necessary to execute PIPs. The FSV includes all of the transaction dialogs in a PIP Protocol. The purpose of the FSV is to specify a PIP Protocol that is systematically derived from the BOV. The two major components within the FSV are the network component design and network component interactions.
3. **Implementation Framework View (IFV).** Specifies the network protocol message formats and communications requirements between peer-protocols supported by network components in the RosettaNet Implementation Framework. These messages are exchanged when software programs execute a PIP; RosettaNet distributes these as XML Message Guidelines.

## 3 Business Operational View

### **3.1 Business Process Definition**

The "Notify of Approved Manufacturer List Confirmation" Partner Interface Process™ (PIP) supports a process in which the Qualification Owner for that product returns the requested information to the Integrator.

The Qualification Owner initiates the process and is the entity responsible for qualifying parts that are approved for manufacture of the product and qualifying suppliers that are approved for acquiring these parts. The Integrator is responsible for the product's manufacture or assembly.

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

### **3.2 PIP Purpose**

This PIP is designed to support the business process to easily and efficiently communicate AML information about the parts that are approved for a product from engineering to manufacturing. It supports the exchange of mappings from internal part numbers to manufacturer part numbers, where "manufacturer" is loosely defined as the last partner to affect a change to the part. It also supports the mapping of these part numbers to supplier part numbers. The AML solves a variety of problems that impact quality, costing and lead times. Quality is improved by specifying precise definitions of the parts that are approved and the suppliers that are approved to supply them. The AML assists in costing and in planning lead times. The AML provides traceability into the process of part acquisition. The AML also allows the Integrator to respond whether it is able to build the product.

### 3.3 Business Process Flow Diagram

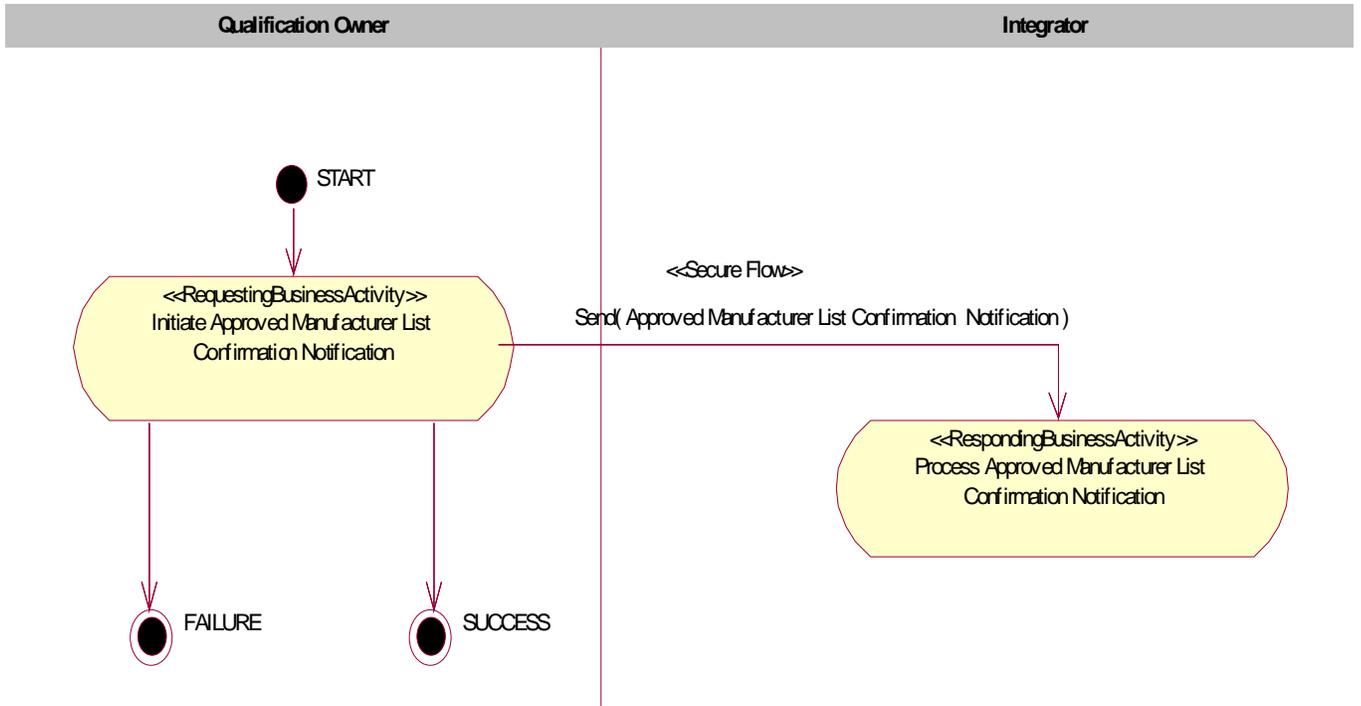


Figure 3-1: Notify Of Approved Manufacturer List Confirmation

**3.4 PIP Start State**

The start state is comprised of the following conditions:

- TPA exists.
- Requesting Trading Partner approved.
- Responding Trading Partner approved.
- Approved Manufacturer List Confirmation Notification exists.
- Approved Manufacturer List Confirmation Notification valid.

**3.5 PIP End States**

End states are comprised of one or more conditions:

END

- Acknowledgment of Receipt exists.
- Acknowledgment of Receipt valid.

FAILED

- The number of attempts has exceeded the retry count maximum.
- PIPOA1, "Notification of Failure," has been executed.
- Not SUCCESS.

**3.6 Partner Role Descriptions**

Table 3-1 describes the partner roles in this PIP.

<b>Table 3-1: Partner Role Descriptions</b>		
<b>Role Name</b>	<b>Role Description</b>	<b>Role Type</b>
Qualification Owner	The organization responsible for the qualification of manufacturers and suppliers of parts for the product. The <b>Qualification Owner</b> defines and maintains the AML for the product.	Organizational
Integrator	The organization responsible for the production of the product. Change requests are communicated back to the <b>Qualification Owner</b> .	Organizational

**3.7 Business Process Activity Controls**

Table 3-2 describes the interaction contract between roles performing business activities in this PIP.

<b>Table 3-2: Business Activity Descriptions</b>		
<b>Role Name</b>	<b>Activity Name</b>	<b>Activity Description</b>
Qualification Owner	Notify Of Approved Manufacturer List Confirmation	The Qualification Owner issues a list forr qualifying parts that are approved for manufacture of the product and qualifying suppliers that are approved for acquiring these parts.

Table 3-3 details the security, audit and process controls relating to activities performed in the PIP.

<b>Table 3-3: Business Activity Performance Controls</b>								
<b>Role Name</b>	<b>Activity Name</b>	<b>Acknowledgment of Receipt</b>		<b>Time to Acknowledge Acceptance</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>					
Qualification Owner	Notify Of Approved Manufacturer List Confirmation	N	2 hrs	N/A	2 hrs	3	N	N

### 3.8 PIP Business Data

#### 3.8.1 PIP Business Documents

Business Documents are generated and exchanged by roles performing activities in this PIP. Business Documents are listed and defined in Table 3-4, and are generated using RosettaNet Message Guidelines. These Message Guidelines can be downloaded via the Uniform Resource Locator (URL) referenced in Section 1.6, "Related Documents."

<b>Table 3-4: PIP Business Documents</b>	
<b>Business Document</b>	<b>Description</b>
Approved Manufacturer List Confirmation Notification	Contains Approved Manufacturer List data for a given product. The Approved Manufacturer List specifies manufacturer part numbers for parts from approved manufacturers and approved suppliers for the parts.

#### 3.8.2 Business Data Entities

The business data entities, fundamental business data entities, and global identifying properties can be found in the RosettaNet Business Dictionary using the URL specified in Section 1.6, "Related Documents."

#### Business Data Entity Security

There are no security controls specified for this PIP.

## 4 Functional Service View

The two major components in the FSV are the network component design and possible network component interactions, listed in sections 4.1 and 4.3.

### 4.1 Network Component Design

A network component design specifies the network components necessary to execute the PIP and the network component collaboration. A network component design is comprised of Agent components and Business Service components that enable roles to perform business activities in a networked environment. Network components collaborate by exchanging business action messages and business signal messages.

### 4.2 Business Transaction Dialog Specification

Each business activity between roles in the BOV is specified as a business transaction dialog between service network components. A service network component implements protocols that include the service layer, transaction and action layer. A service has “network identity” as a business service. The service has an identity URI that can be registered in directories and used for component communication in a distributed computer system.

The rest of section 4.3 specifies the network component configuration for this PIP. Each figure specifies the message exchange sequence as network components collaborate to execute this PIP. Each table shows the properties for each of the messages exchanged by the interactions in the corresponding figure.

#### 4.2.1 Notify Of Approved Manufacturer List Confirmation Dialog: Service-Service

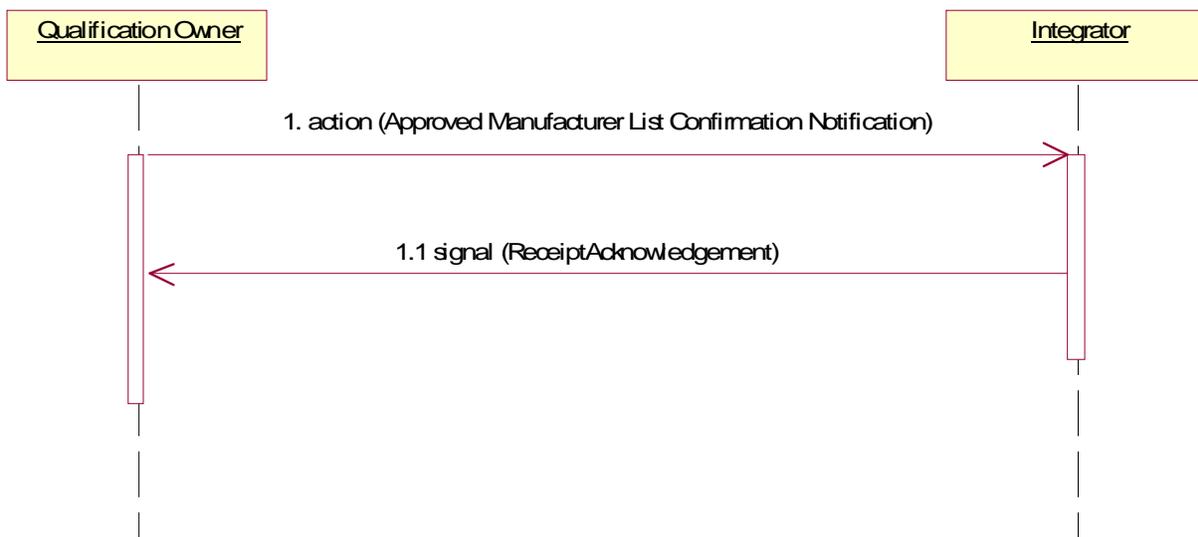


Figure 4-2: Notify Of Approved Manufacturer List Confirmation Interactions: Service-Service

**4.2.2 Network Component Specification**

Each network component maps onto a role in the BOV of the PIP model. Table 4-1 specifies the mapping between roles in the BOV and network components in the FSV.

<b>Table 4-1: Network Component Specification</b>		
<b>Network Component in FSV</b>	<b>Classification</b>	<b>Maps to Role in BOV</b>
Qualification Owner Service	Business Service	Qualification Owner
Integrator Service	Business Service	Integrator

**4.3 Business Action and Business Signal Specification**

Each business action maps onto a Business Document in the BOV of the PIP model. Table 4-2 specifies the mapping between Business Documents in the BOV and business actions in the FSV.

<b>Table 4-2: Business Action – Business Document Mapping</b>	
<b>Business Action in FSV</b>	<b>Maps To Business Document in BOV</b>
Approved Manufacturer List Confirmation Notification Action	Approved Manufacturer List Confirmation Notification

<b>Table 4-3: Message Exchange Controls - Notify Of Approved Manufacturer List Confirmation</b>								
<b>#</b>	<b>Name</b>	<b>Time to Acknowledge Receipt Signal</b>	<b>Time to Acknowledge Acceptance Signal</b>	<b>Time to Respond to Action</b>	<b>Included in Time to Perform</b>	<b>Is Authorization Required?</b>	<b>Is Non-Repudiation Required?</b>	<b>Is Secure Transport Required?</b>
1.	Approved Manufacturer List Confirmation Notification Action	2 hrs	N/A	2 hrs	Y	N	N	Y
1.1.	Receipt Acknowledgment	N/A	N/A	N/A	Y	N	N	Y

## 5 Implementation Framework View

The tables in Section 5 specify the business messages and their communications requirements for executing this PIP.

### 5.1 Notify Of Approved Manufacturer List Confirmation Dialog: Service-Service

<b>Table 5-1: Business Message and Communications Specification</b>			
<b>#</b>	<b>Business Message Guideline</b>	<b>Digital Signature Required?</b>	<b>SSL<sup>1</sup> Required?</b>
1.	Approved Manufacturer List Confirmation Notification Guideline	Y	Y
1.1.	Receipt Acknowledgment Guideline	Y	Y

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<sup>1</sup> Secure Socket Layer