

Description of Partner Interface Process[®] for 2C9

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Cluster	Product Information
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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)
- Messages Structure
- XML instance of ebXML BPSS for PIP 2C9

1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Released 11.00.00	06 March 2015	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 "Request Approved Manufacturer List" Partner Interface Process™ (PIP) supports a process in which

1. An Integrator requests the Approved Manufacturer List (AML) information for a product, and
2. The Qualification Owner for that product returns the requested information to the Integrator.

The Integrator initiates the process by sending an AML request to the Qualification Owner. To facilitate communications, the request document includes both query constraint lines and incomplete results lines. After processing the request, the Qualification Owner completes the results lines and returns the information to the requesting party.

The Qualification Owner 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.

The Integrator may use PIP2C2, "Request Engineering Change", to inform a Qualification Owner of errors in an AML or another reason to change it.

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

2.1.1 Executive Summary

This PIP is designed 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.

2.2 PIP Business Documents

Business Documents are generated and exchanged by roles performing activities in this PIP. Business Documents are listed and defined in Table 1.

Table 1: PIP Business Document	
Business Document	Description
Approved Manufacturer List Request	Allows the sender to request Approved Manufacturer List information for a product. The product being queried can be identified using a Global Trade Item Number (GTIN) or proprietary product identifier.
Approved Manufacturer List Confirmation	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.

2.3 PIP Business Process Flow Diagram

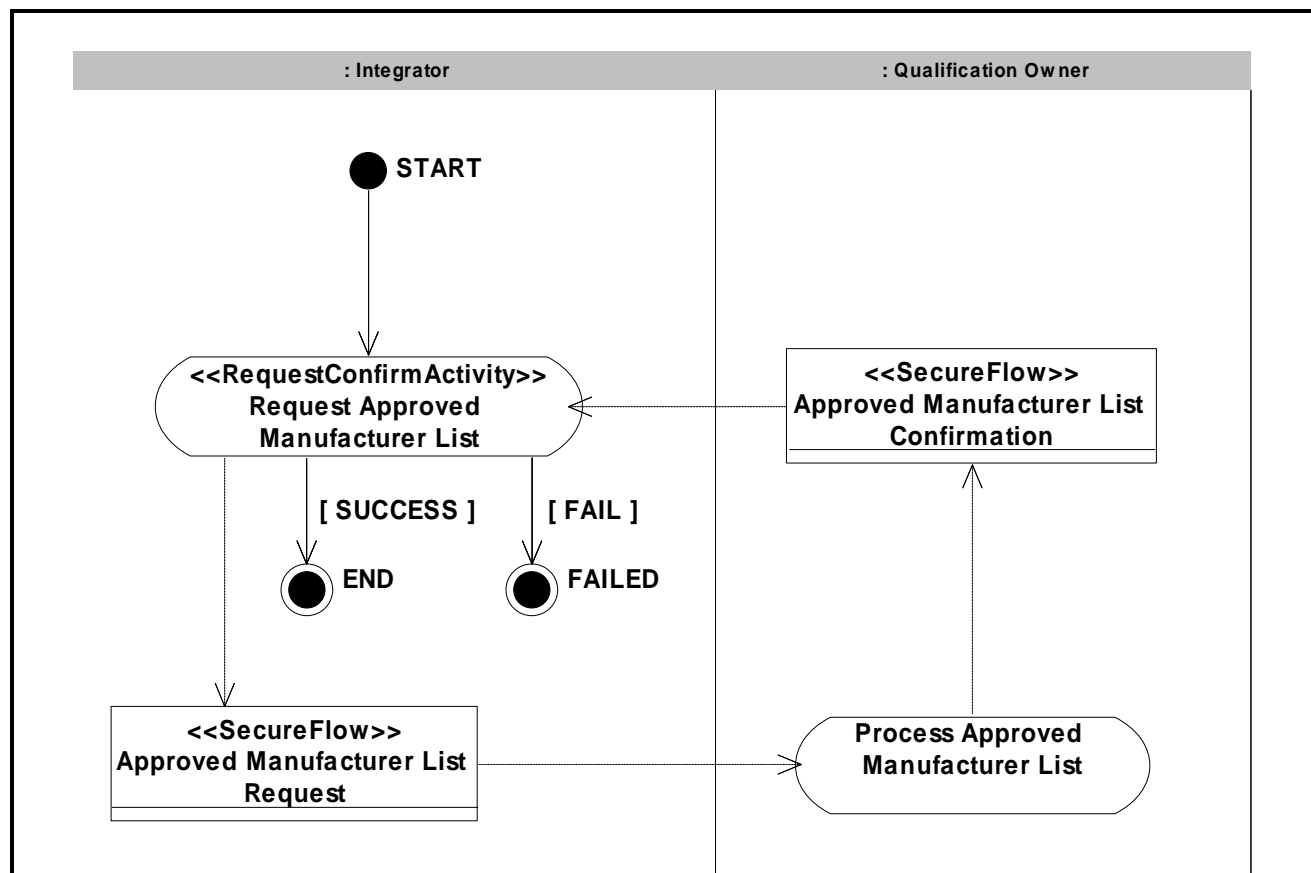


Figure 1: Activity Diagram of Request Approved Manufacturer List

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.

Table 5: Partner Role Description	
Role Name	Role Description
Integrator	The organization responsible for the production of the product. Change requests are communicated back to the Qualification Owner .
Qualification Owner	The organization responsible for the qualification of manufacturers and suppliers of parts for the product. The Qualification Owner defines and maintains the AML for the product.

2.7 Business Process Activity Controls

Table 6 describes the interactions between roles performing business activities in this PIP.

Table 6: Business Activity Description		
Role Name	Activity Name	Activity Description
Integrator	Request Approved Manufacturer List	This activity generates and sends a Request Approved Manufacturer List to a Qualification Owner.

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

Table 7: Business Activity Performance Control							
Role Name	Activity Name	Acknowledgment of Receipt		Time to Perform	Retry Count	Is Authorization Required?	Non-Repudiation of Origin and Content?
		Non-Repudiation Required?	Time to Acknowledge				
Integrator	Approved Manufacturer List Request	Y	2 hrs	24 hrs	3	Y	Y
Qualification Owner	Approved Manufacturer List Confirmation	Y	2 hrs	N/A	3	Y	Y

Note: All time parameters are defined as (hrs or mins), i.e. 2 hrs

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
Integrator Service	Business Service	Integrator
Qualification Owner Service	Business Service	Qualification Owner

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
Approved Manufacturer List Request Action	Approved Manufacturer List Request	Request
Approved Manufacturer List Confirmation Action	Approved Manufacturer List Confirmation	Response

3.2 Business Transaction Dialog Specification

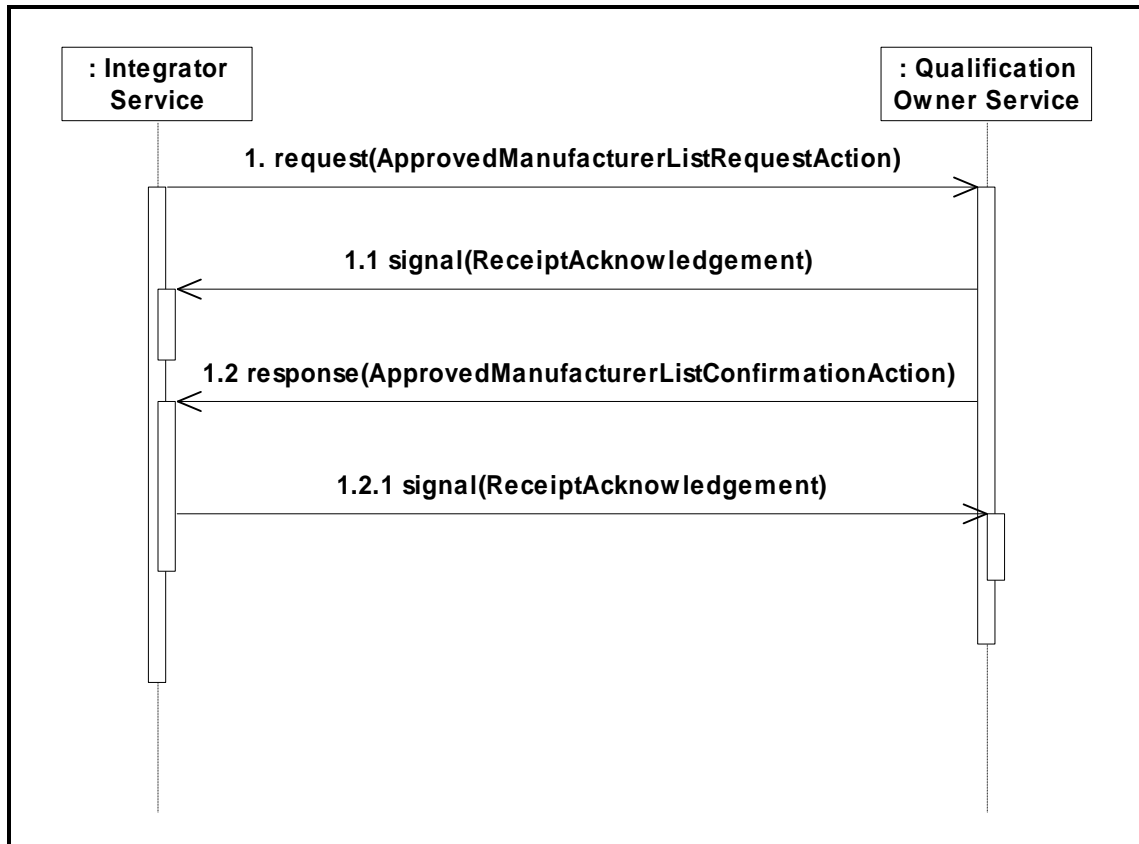


Figure 2: Sequence Diagram of Request Approved Manufacturer List

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.	Approved Manufacturer List Request	2 hrs	24 hrs	Y	Y	Y	Y
1.1.	Receipt Acknowledgment	N/A	N/A	Y	Y	Y	Y
2.	Approved Manufacturer List Confirmation	2 hrs	N/A	Y	Y	Y	Y
2.1.	Receipt Acknowledgment	N/A	N/A	N	Y	Y	Y

Note: All time parameters are defined as (hrs or mins), i.e. 2 hrs

3.2.2 Communications Specification

Table 11: Dialog: Service-Service			
#	Business Message	Digital Signature Required?	SSL Required?
1.	Approved Manufacturer List Request	Y	Y
1.1.	Receipt Acknowledgment	Y	Y
2.	Approved Manufacturer List Confirmation	Y	Y
2.1.	Receipt Acknowledgment	Y	Y