

Description of Partner Interface Process® for 2C2

Released 11.00.00

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Cluster	Product Introduction
Segment	Engineering Change Management
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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 2C2

1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Released 11.00.00	16 May 2012	Set to Release status.

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 Engineering Change" Partner Interface Process™ (PIP) enables a party to submit an engineering change request and a change review forum to respond to the request. The party requesting the change (change requester) submits an engineering change request when a stakeholder identifies an opportunity or problem requiring an engineering evaluation. The change review forum responds by either accepting, rejecting, or pending the engineering change request.

If the change review forum responds, via this PIP, that the engineering request is "pending," then the change review forum must later use PIP2C3, "Distribute Engineering Change Response," to provide a final disposition (approve or reject) to the request. The final disposition must be provided within three months after completion of this PIP.

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

2.1.1 Executive Summary

This PIP enables a party proposing an engineering change (change requester) to send an engineering change request to a change review forum, and the change review forum to respond to the request.

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
Engineering Change Request	Contains the necessary information for a stakeholder to convey a need for consideration of engineering action. This document is simply a request for a possible engineering action and not an instruction for change.
Engineering Change Confirmation	Contains the disposition for the requested engineering change. It contains the Engineering Change proprietary request number, response code that could be approve, reject or pending, and appropriate comments.

2.3 PIP Business Process Flow Diagram

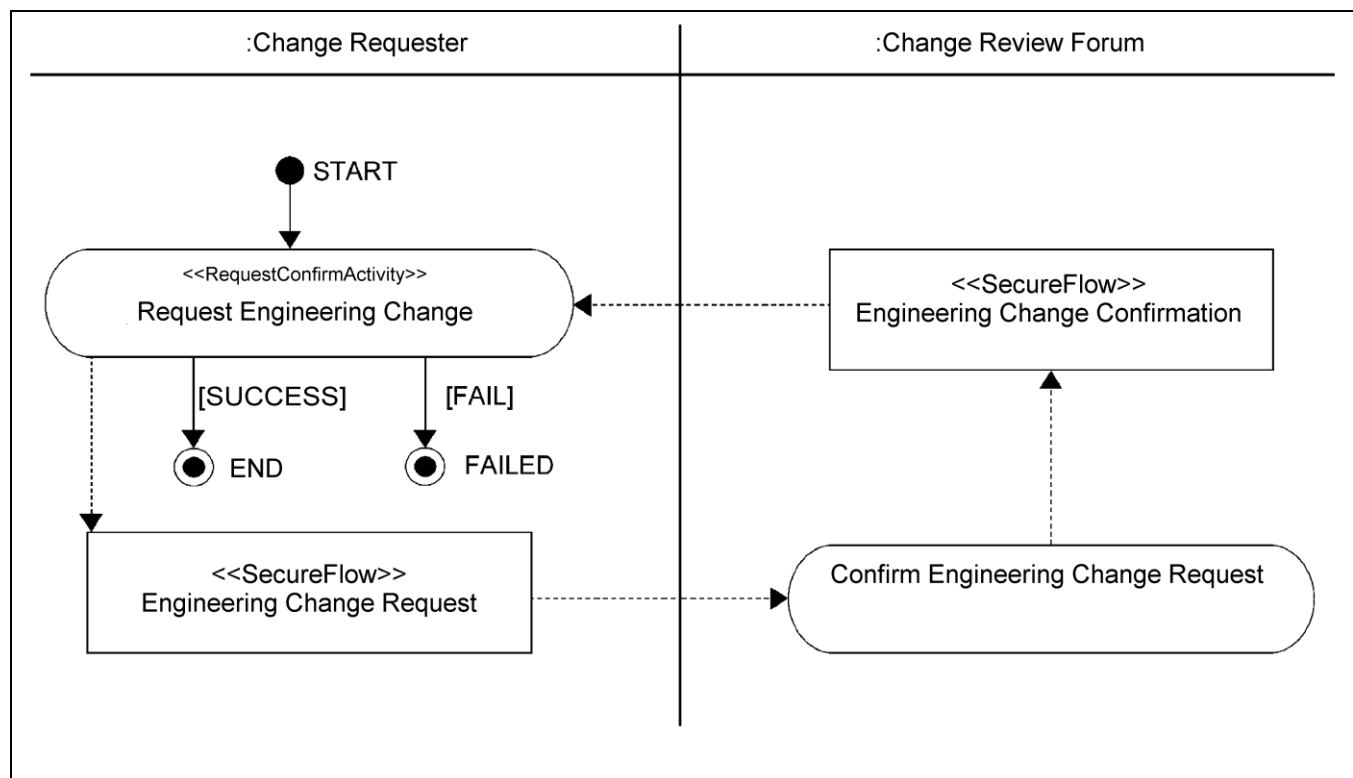


Figure 1: Activity Diagram of Request Engineering Change

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
Change Requester	A party who has an interest in requesting a review of a possible change to the component. The requester may be any party including customers and suppliers.
Change Review Forum	A party who has responsibility for the review of Engineering Change Requests and the drafting and review of Engineering Change Orders. The Change Review Forum is assumed to be at the company that has responsibility for the engineering aspects of the component affected by the change.

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
Change Requester	Request Engineering Change	The Change Requester submits an Engineering Change Request to a Change Review Forum and receives back an Engineering Change Confirmation.

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				
Change Requester	Engineering Change Request	Y	2 hrs	24 hrs	3	Y	Y
Change Review Forum	Engineering Change 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
Change Requester Service	Business Service	Change Requester
Change Review Forum Service	Business Service	Change Review Forum

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
Engineering Change Request Action	Engineering Change Request	Request
Engineering Change Confirmation Action	Engineering Change Confirmation	Response

3.2 Business Transaction Dialog Specification

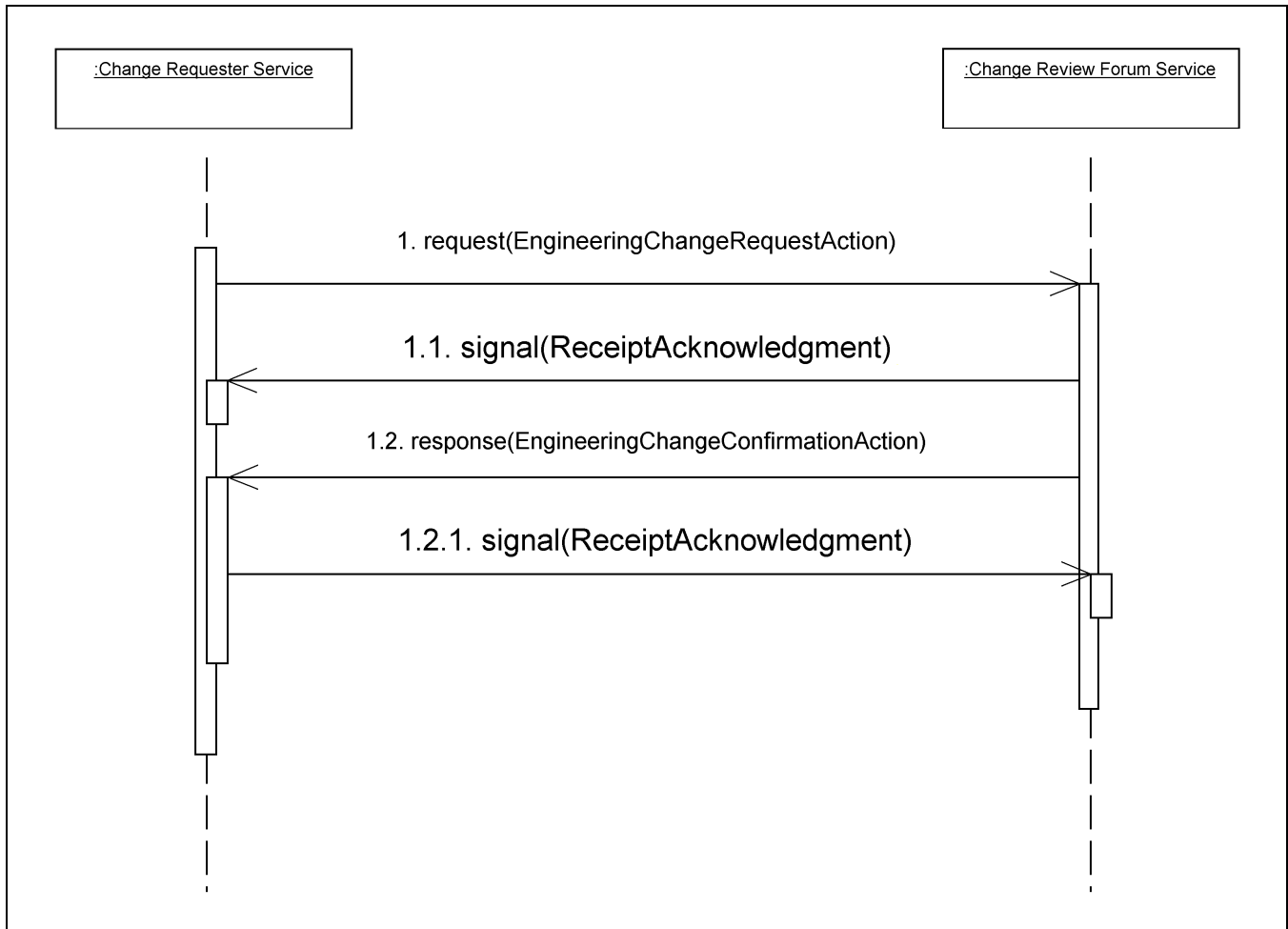


Figure 2: Sequence Diagram of Request Engineering Change

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.	Engineering Change Request	2 hrs	24 hrs	Y	Y	Y	Y
1.1.	Receipt Acknowledgment	N/A	N/A	Y	Y	Y	Y
2.	Engineering Change 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.	Engineering Change Request	Y	Y
1.1.	Receipt Acknowledgment	Y	Y
2.	Engineering Change Confirmation	Y	Y
2.1.	Receipt Acknowledgment	Y	Y