

Description of Partner Interface Process[®] for 2A17

Validated 11.02.00

Specification Information	
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Cluster	Product Information
Segment	Preparation for Distribution
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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.

Air Products & Chemicals (APCI)	LINDE (formally BOC Edwards)
Intel	IBM
InSync Software	ATMI

1.5 Related Documents

- Associated PIP Message Schemas (included within the PIP Specification package only)
- Description of 2A17 Message
- Messages Structure
- XML instance of ebXML BPSS for PIP 2A17

1.6 Document Version History

<u>Version</u>	<u>Date</u>	<u>Description</u>
Validated 11.00.00	27 June 2008	Validated Version: Milestone Program – Certificate of Analysis
Validated 11.01.00	20 September 2011	Updated Validated Version
Validated 11.02.00	2 July 2013	Updated Validated 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

PIP 2A17, The "Notify of Certificate of Analysis" Partner Interface Process™ is sent by supplier to customer, to allow customer to verify the delivered material meets the agreed upon requirements during the time of delivery or prior to delivery.

2.1.1 Business Process Description

Certificate of Analysis is a document attesting to the quality or purity of the material being shipped. The origin of the certificate of analysis may be the manufacturer of the material, the distributor, or another third party, such as an inspection firm or independent laboratory. In most cases the document is created by the manufacturer and certifies that the material shipped has been tested in his facility and found to conform to the agreed upon specifications. The certificate of analysis details the test methods and results obtained for the specific material and package being supplied.

A Certificate of Analysis is provided from the seller (supplier) to the buyer (customer) to allow verification that the delivered material meets the agreed upon requirements. It is provided at the time of delivery, but may be provided prior to delivery to allow pre-shipment approval. A certificate of analysis is used in several industries including, but not limited to, electronic, chemical, industrial gas, petrochemical, textile, etc.

This PIP can help to:-

- Eliminate manual processing and scanning of certificates of analysis for both partners removing the opportunity for inaccurate data entry.
- Eliminate the unmanageable variety of electronic certificate of analysis approaches currently existing in the industry.
- Provide the data electronically for product receipt and verification of compliance versus specifications.
- Allow multiple connections using a single data standard reducing the overall cost.

The recipient may optionally respond to the forecast using PIP 2A18, "Notify of Certificate of Analysis Response".

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

2.2 PIP Scope Description

PIP 2A17 "Notify of Certificate of Analysis" is provided from the seller (supplier) to the buyer (customer) to allow verification that the delivered material meets the agreed upon requirements.

2.2.1 Business Process Scope Diagram

Prior to the sending of PIP 2A17 "Notify of Certificate of Analysis", seller (supplier) & buyer (customer) have confirmed the purchase order via PIP 3A4 "Request Purchase Order". PIP 3B2 "Notify of Shipment" will be sent together with PIP 2A17, or prior to the sending of PIP 2A17.

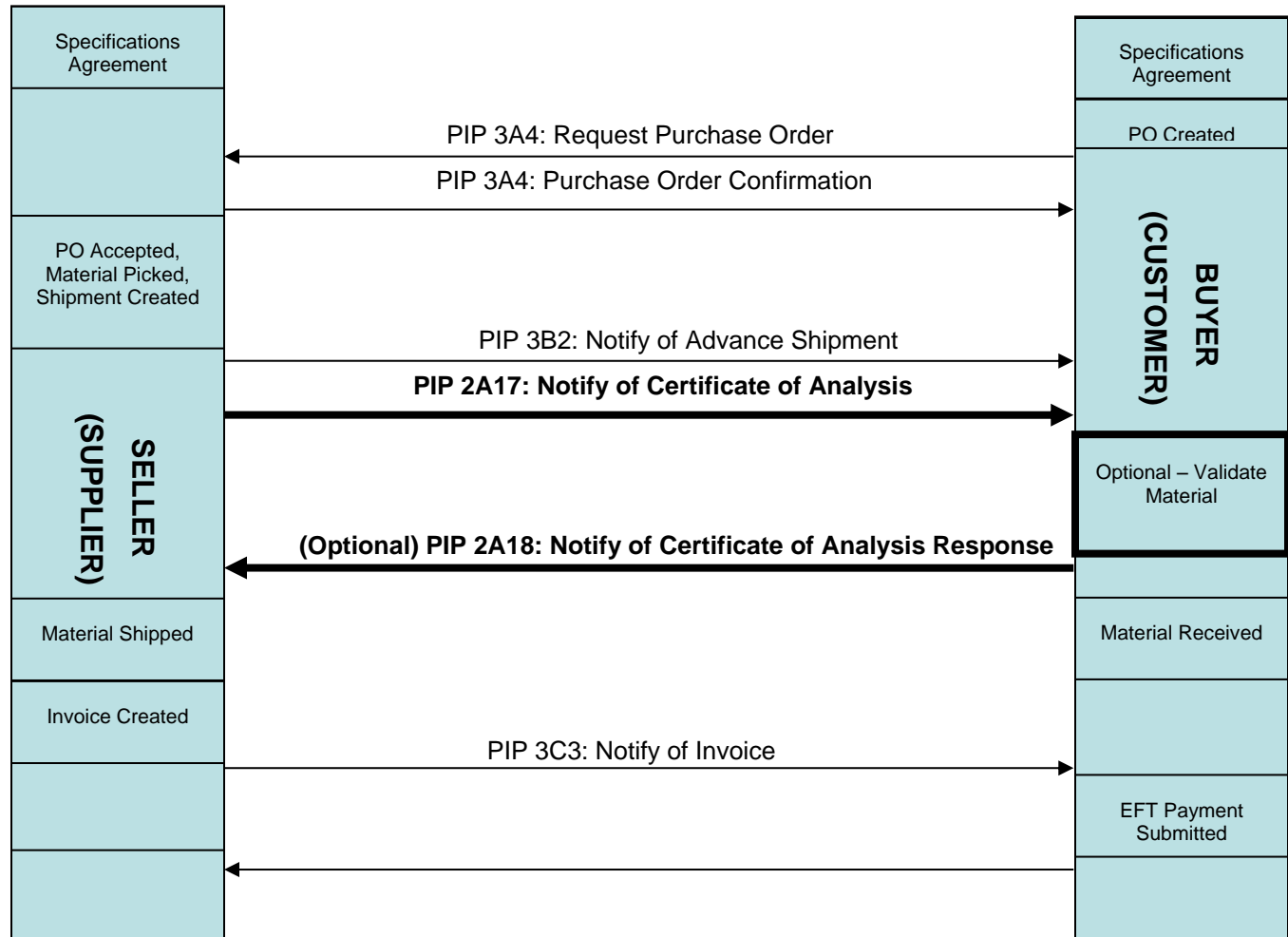


Figure 1: Business Process Scope Diagram

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
Certificate Of Analysis Notification	A request to provided from the seller to the buyer to allow verification that the delivered material meets the agreed upon requirements.

2.4 PIP Business Process Flow Diagram

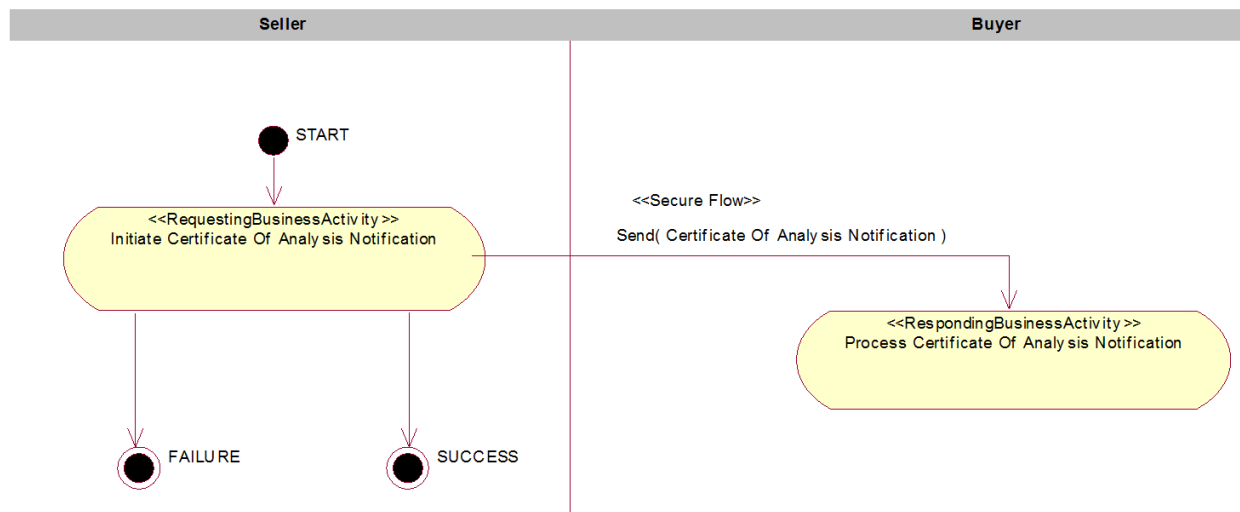


Figure 2: Activity Diagram of Notify Of Certificate Of Analysis

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.

Table 5: Partner Role Description	
Role Name	Role Description
Seller	An organization that sells products to partners in the supply chain (supplier). Initiates the Certificate of Analysis Notification to Certificate Receiver (buyer) to verify the delivered materials meets the agreed upon requirements.
Buyer	An employee or organization that buys products from a partner in the supply chain (customer). Initiates the Certificate Of Analysis Response Notification when the certificate is received from Certificate Provider (seller).

2.8 Business Process Activity Controls

Table 6 describes the interaction between roles performing business activity in this PIP.

Table 6: Business Activity Description		
Role Name	Activity Name	Activity Description
Seller	Initiate Certificate Of Analysis Notification	The seller initiates a Certificate of Analysis to buyer to verify the delivered materials meets the agreed upon requirements.

Table 7 details the security, audit and process controls relating to activity 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				
Seller	Initiate Certificate Of Analysis 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
Seller Service	Business Service	Seller
Buyer Service	Business Service	Buyer

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
Certificate Of Analysis Notification Action	Certificate Of Analysis Notification	Notification

3.2 Business Transaction Dialog Specification

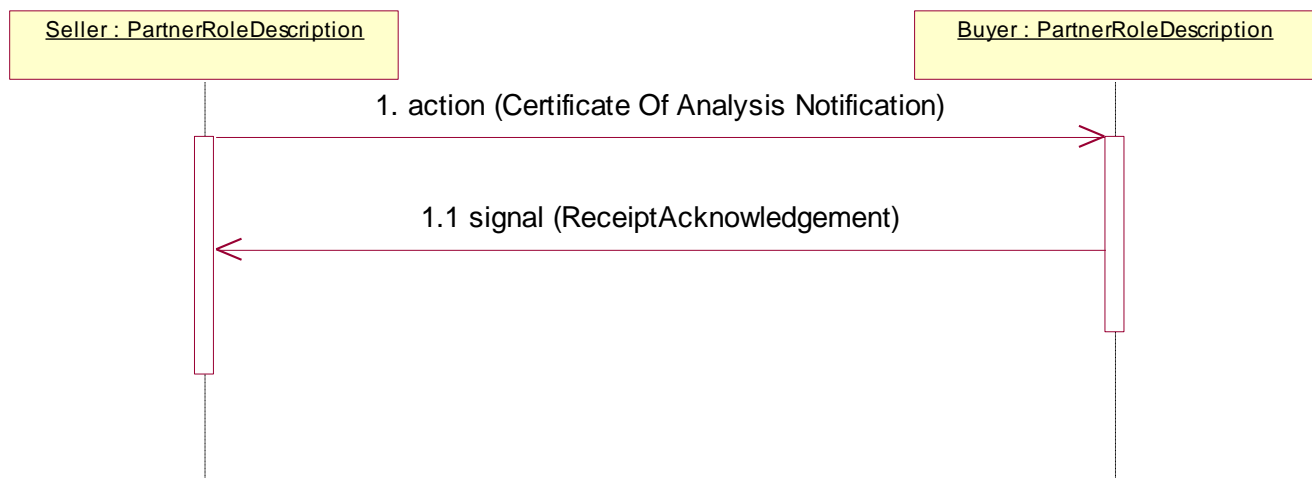


Figure 3: Sequence Diagram of Notify Of Certificate Of Analysis

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.	Certificate Of Analysis 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

Table 11: Dialog: Service-Service

#	Business Message	Digital Signature Required?	SSL Required?
1.	Certificate Of Analysis Notification	Y	Y
1.1.	Receipt Acknowledgment	Y	Y