

**PIP 4A3 VERSION 02.00.00: Notify of Threshold Release Forecast**  
**RELEASE 1.00**

**Intended for Intel Supplier Trading Partners**

Intel Corporation

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## INTRODUCTION

### PURPOSE

This document is intended to provide to Intel Suppliers (Trading Partners) the information necessary to begin implementing RosettaNet PIP 4A3, version 2.0, (Notify of Threshold Release Forecast) with Intel. The topics covered are:

- INTRODUCTION** provides the reader with a basic understanding of the PIP implementation
- IMPLEMENTATION** is a complete outline of the process to be followed to put the document in production
- TESTING** describes testing procedures and scenarios specific to this PIP
- PRODUCTION** describes how to migrate from a test to a production environment and the support to follow
- FREQUENTLY ASKED QUESTIONS** provides answers to some common questions regarding this PIP
- GLOSSARY OF TERMS** defines terms that are specific to this PIP

### AUDIENCE

This document is intended for suppliers and Rosettanet provisioners. It contains many hyperlinks, data mappings with required fields and is best viewed in soft form. If you are reading a hard copy of this document, then please print this document on a color printer to better view the message guideline section.

### BENEFITS

Some specific benefits of implementing PIP 4A3 for Intel and the Trading Partner include:

- Reduces time spent calling and sending emails to determine shipment quantities of critical parts
- Improves efficiency, increases data integrity and provides better visibility for tracking purposes
- Allows trading partners to have touchless transactions for threshold release forecasts.

### INTEL KEY CONTACTS

For each implementation, Intel assigns the following roles to participate in the engagement:

**TRADING PARTNER PROVISIONERS** – They assist the technical part of the implementation where they manage the implementation process between the supplier and Intel.

**PIP DEVELOPMENT TEAM** – The Intel technical developers responsible for the developing the PIP for Intel. They provide answers regarding PIP specifics and facilitate testing and migration to production.

**BUSINESS ADVOCATE/BUYER/COMMODITY MANAGER** – To represent the business processes involved in this PIP and to provide user acceptance to data sent and received.

It is highly recommended that the trading partner have complimentary representatives available to support this implementation, as well.

### TECHNICAL REQUIREMENTS

The following RosettaNet Infrastructure for transaction processing will be used for the 4A3 PIP:

<b>RNIF</b>	<b>Version 1.1</b>	<b>Version 2.0</b>
Preamble	Version 1.1 Build# 22	V02_00_01
Service Header	Version 1.1 Build# 22	V02_00_01
Delivery Header	Not used	V02_00_01
Receipt Acknowledgement	Version 1.1 Build# 22	Not used
Receipt Ack Exception	Version 1.1 Build# 22	Not used

General Exception	Version 1.1 Build# 22	Not used
Acknowledgement of Receipt	Not used	V02_00_01
Eception	Not used	V02_00_01
PIP0A1	Version 1.0 Build# 9	V02.00.01

## PROCESSING REQUIREMENTS

### ERROR PROCESSING

There are several areas where errors could potentially occur. Some of them are listed below.

#### *Error at Intel Gateway (Public Process)*

If the 4A3 fails in Intel's B2B gateway, Intel Production Support group will send the Trading Partner a failure notice. The Trading Partner is required to investigate the cause of error, take action for eliminating re-occurrence of the error, and reply with a reconciliation request to Intel, such as a PIP re-send.

#### *Error on the Trading Partner's End*

The Trading Partner should monitor their systems in a timely manner to proactively find errors. If an error is found and any support is needed by Intel, the Trading Partner should communicate this with Intel's Production Support group.

#### *Intel contact*

Intel's Production Support group is located in the United States and Malaysia, and support is available 24 hours per day, 7 days per week. They can be reached via Phone or e-mail.

Use the toll free# for your country as listed here: <https://supplier2.intel.com/static/misc/support.htm>.

OR E-mail the support desk at:

[Amr.rnet@intel.com](mailto:Amr.rnet@intel.com) (group located in the United States)  
[Gar.rney@intel.com](mailto:Gar.rney@intel.com) (group located in Malaysia)

## SERVICE LEVEL AGREEMENT (PERFORMANCE TIME REQUIREMENTS)

PIP 4A3 follows a single-action activity (asynchronous) process. Applying the flow diagram of the single-action activity (asynchronous) process to PIP 4A3, Intel acts as the sender of the 4A3 PIP.

After Intel sends PIP 4A3 to the shipper, the supplier will send a Receipt Acknowledgement or a General Acceptance back to Intel. Assuming Intel strictly follows framework and PIP 4A3 specifications; Intel processes the Receipt Acknowledgement or a General Acceptance as soon as it is received.

The DTDs for the Receipt Acknowledgment can be found at [www.rosettanet.org](http://www.rosettanet.org).

## RELATED DOCUMENTS

Intel provides documents to assist trading partners in establishing connectivity with Intel. For trading partners who prefer not to use the connectivity package provided free of charge by Intel, they should reference the following (most are available on <https://supplier2.intel.com/supplierhub/> or through your Trading Partner Provisioner):

NAME	DOCUMENT DESCRIPTION
HTTPS Trading Partner Guidelines Revision	HTTPS Implementation Guide
HTTPS Trading Partner Information Sheet (it is also embedded with the HTTPS Implementation Guide)	HTTPS Data Exchange Sheet with specific information the Trading Partner needs from Intel and the information Intel needs from its Trading Partners to establish connectivity

## IMPLEMENTATION

### WHERE TO FIND PIPS

For a list of PIPs by cluster and segment and/or to download a copy of PIP 4A3, please access the RosettaNet web site at <http://www.rosettanet.org>. Users are not required to be a member of RosettaNet or have an ID/password to download the PIPs.

### MESSAGE GUIDELINES

Intel is currently implementing 4A3\_MG\_V02\_00\_00\_ThresholdReleaseForecastNotification ( 12/16/2002 11:32:01 AM ) Data elements **required** by RosettaNet are indicated in green, those with a **conditional requirement** appear in yellow and the rest are optional. Please see the Excel mapping document in the zip file.

### SAMPLE

The following is an example of the type of XML Notify of Threshold Release Forecast that Intel's Trading Partners can expect to receive from Intel. If you would prefer an Excel version of this section, please ask your Trading Partner Provisioner.

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## RECEIPT ACKNOWLEDGEMENT

Trading Partners will send Intel a receipt acknowledging that a Threshold Release Forecast was successfully received.

## TESTING

### PURPOSE

Testing for Intel PIP follows the stages listed below:

<b>Level 1</b>	Establish transport and connectivity with Trading Partners using HTTPS. This is a test of each Trading Partner's public processes. <u>These tests are defined in the connectivity guides for each associated method.</u>
<b>Level 2</b>	This stage tests the RosettaNet PIP structure and syntax. Within each Trading Partner's public process, testing is done to ensure the document is well formed and valid against the DTD. <u>These tests are defined in the connectivity guides for each associated method.</u>
<b>Level 3</b>	This is a real-time, end-to-end integration test against Intel's ERP system. This will be a test of the private process for both Trading Partners.

### TEST SCENARIOS

Please see the Excel document 'ForecastPIPsTest Scenarios' in the zip file for specific test scenarios. The Intel Trading partner provisioner will work with you to develop any other required test scenarios.

## PRODUCTION

### READINESS

Once the user acceptance testing is completed, we would ask that you please follow the procedure below for a successful migration to production:

1. If you are using HTTPS, please ensure your B2B gateway is utilizing Intel's production URL and verify it with the Trading Partner Provisioner.

2. If you are using HTTPS, send the Trading Partner Provisioner the supplier Trading Partner's production URL, Digital Certificate and Digital Signature if these are different from what was provided in the HTTPS information sheet for testing.
3. Establish a "go live" date when processing can begin in Intel's production environment.
4. When notification is received from Trading Partner, Intel will send a Threshold Release Forecast transaction to validate connectivity in the production environment.
5. Intel will verify connectivity was established in production and when to expect transactions.

## SUPPORT

Any issues related to this implementation should be directed to your assigned Trading Partner Provisioner.

## FREQUENTLY ASKED QUESTIONS

### **Q 1** *How long will it take to prepare?*

The implementation process requires multiple weeks of preparation and testing. Refer to the implementation checklist in the Intel RosettaNet General Implementation Guide for estimated durations for each activity



## GLOSSARY OF TERMS

**-A-**

ARM Automated Replenishment Method

**- B -**

BCRN Business Connect / RosettaNet (Tibco software used by Intel)

**- D -**

DTD Document Type Definition

**-M-**

MAR Materials Auto Replenishment

**- P -**

PIP Partner Interface Process (PIP) is the RosettaNet model that depicts the activities, decisions and Partner Role interactions that fulfill an eBusiness transaction between two partners in a supply chain.

PRF Product Requirements Forecast

**- R -**

RNIF RosettaNet Implementation Framework. The RNIF provides implementation guidelines for those who wish to create interoperable software application components that execute PIPs.

Response to Forecast

RTF

**- T -**

Trading Partner Provisioner The technical implementation specialist Intel assigns to assist trading partners with a RosettaNet implementation

**-V-**

VRS Vendor Response System

## FORECAST EXCHANGE PROCESS (4A3/5)

RossettaNet based collaborative forecasting is a B2B method to exchange forecast data with trading partners. This is Intel’s preferred method to exchange. Trading partners must be RossettaNet ready and must have developed an internal process to exchange forecast from their ERP system with Intel’s ERP system. For the Materials Auto Replenishment (MAR) process we will use PIP 4A3 and PIP 4A5.

### FORECAST – RESPONSE-TO-FORECAST PROCESS

#### Characteristics of the Forecast-RTF process

Actors	<ul style="list-style-type: none"> <li>Forecast owner (4A3) is Intel. Intel is the party sending the forecast and calculating material requirements.</li> <li>Forecast recipient is a supplier (the party receiving the forecast and sending the forecast reply (4A5)).</li> </ul>
Preconditions	<p>The <u>Trading Partner Agreement (TPA)</u> must be negotiated between Intel and each forecast recipient as a precondition.                  The TPA should contain, but is not limited to, the following information:</p> <ul style="list-style-type: none"> <li>Define the meaning of forecast documents (4A3)                         <ul style="list-style-type: none"> <li>Definitions must include Intel liability on forecast and what the supplier must do with the forecast</li> </ul> </li> <li>Define the meaning of the forecast reply documents (4A5)</li> <li>Define <u>which part numbers</u> are to be included in the Forecast and Forecast Reply</li> <li>Describe a <u>procedure for adding part numbers</u> to the Forecast and Forecast Reply</li> <li>Describe a <u>procedure for removing part numbers</u> from the Forecast and Forecast Reply</li> <li>Define the Forecast and Forecast Reply <u>transmission frequency</u></li> <li>Describe <u>quantity definitions and netting procedures</u> if needed, for example; using gross quantities versus net quantities</li> <li>Describe <u>date definitions</u>, for example; using scheduled dock dates versus ship dates</li> <li>Define Forecast and Forecast Reply <u>horizon</u></li> <li>Define financial/legal liability (<u>trade off zone</u>)</li> <li>Define <u>exception criteria</u> and exception management processes</li> </ul>

#### Course of Action

- Intel creates an embedded release type of forecast (ARM) according to agreed schedule. Intel sends the forecast.
- Supplier receives the forecast (4A3).
- Supplier decides whether the forecast can be supported based on their own material and capacity analysis.
- Supplier creates and sends a forecast reply (4A5) based on their capability to support Intel’s forecast.
- Intel receives the forecast reply (4A5).
- Intel uses the forecast reply to earlier recognize possible constraints in the expected flow of materials or upside/downside potential. Intel uses this information to create subsequent forecast and forecast reply information to other trading partners in the supply chain.

## DOCUMENT MANAGEMENT

Version	Revision Date	Modifier	Description
1.00	08/027/2003	Trina Cullen	First working draft for this version.
	9/18/03	Trina Cullen	Updated to include Document items