

SAP ARIBA

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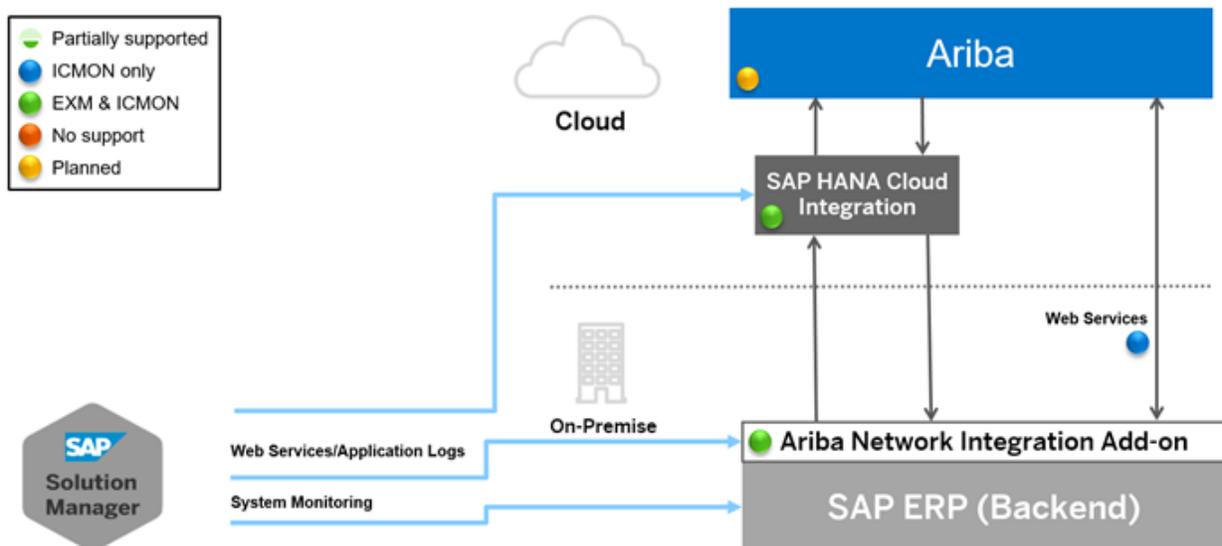
- **SAP Ariba Integration :**

SAP Ariba is SAP's cloud based marketplace for business-to business transactions. SAP Ariba runs the Ariba network in which buyers and suppliers can find each other and do business in one network.

You can connect you on-premise solution to SAP Ariba in two different ways.

- **Ariba via HANA Cloud Integration**

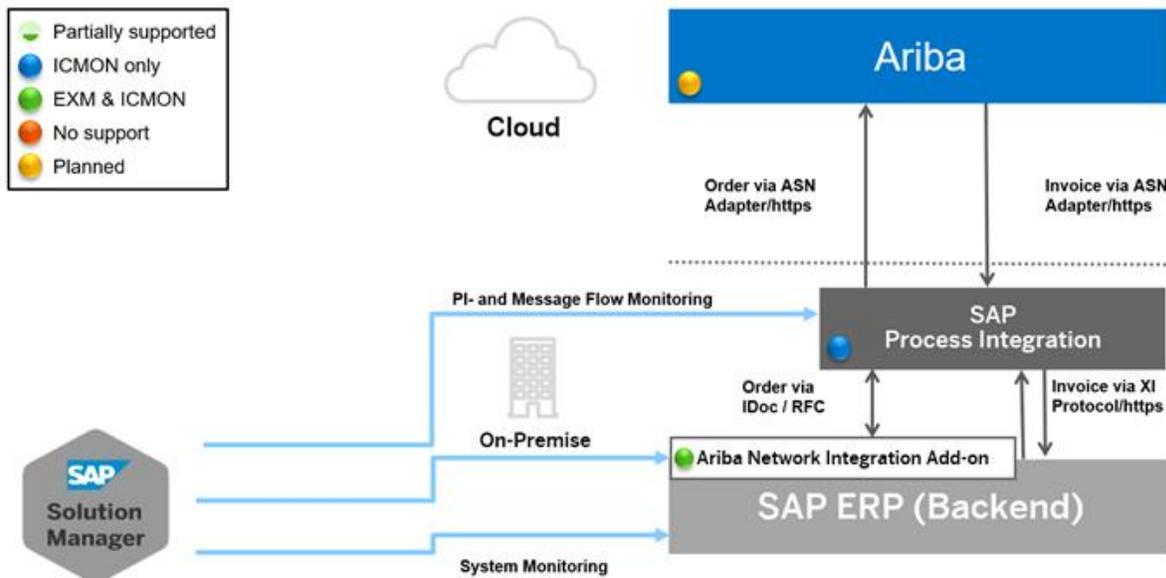
You can either use SAP HANA Cloud Integration. In this case the monitoring is supported for SAP HANA Cloud Integration and also for the Web Services used in SAP Ariba and in SAP ABAP. You can also use Exception Management to monitor application log errors in the SAP Ariba add-on in ERP.



Ariba via HANA Cloud Integration

- **Ariba via SAP Process Integration**

The second option is to use SAP Process Integration. In this case you can use message monitoring within SAP PI (which can be integrated with PI Monitoring in SAP Solution Manager) and Integration and Connection monitoring to monitor the messages between the backend system and SAP Ariba. If your SAP PI system has the Integration Visibility component you can also use Message Flow monitoring to monitor single message flows.



Ariba via SAP Process Integration

How to connect SAP to the Ariba Network using Netweaver Process Integration/Orchestration

Introduction

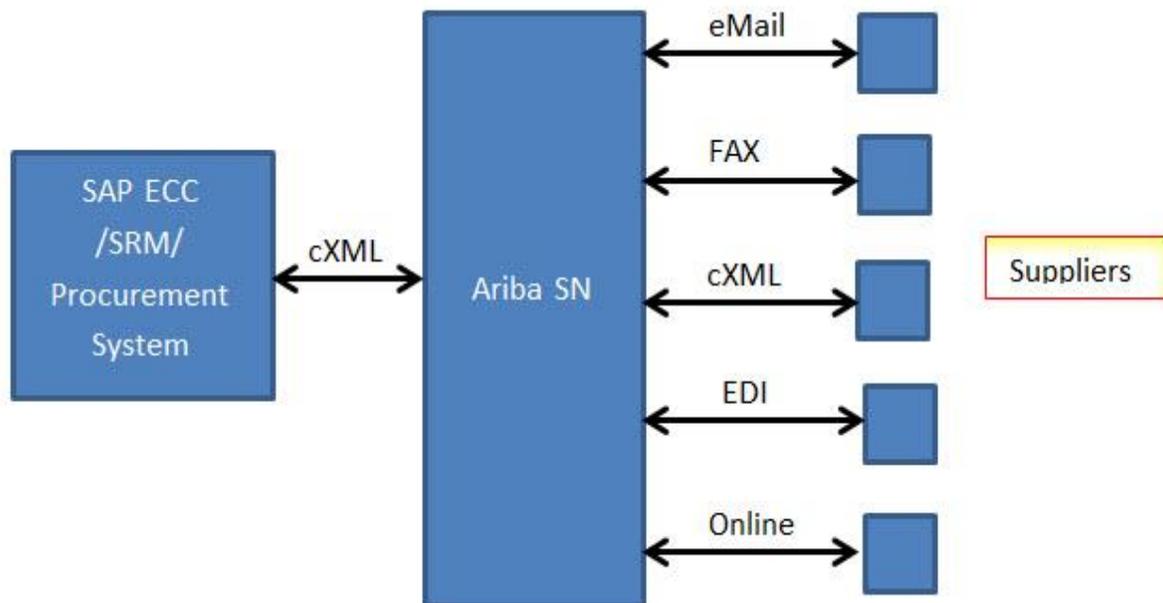
What is Ariba Network (AN) and what is its basic Functionality?

The Ariba Network (AN) is a global network that provides connectivity and online services to organizations engaged in business-to-business e-commerce. Ariba Network enables buyers and suppliers to do business with each other worldwide over the Internet and to access multiple network-delivered services to enhance interaction and collaboration. It is a multi-protocol commerce hub that translates, validates, and routes business documents. It contains additional services such as directory services, reporting tools, supplier tools, payment, and sourcing.

Ariba Network provides you with a single point of integration to thousands of suppliers. Similarly, it provides each supplier with a single point of integration to multiple large buying organizations. You use Ariba Network to find suppliers to purchase products or services from and to invite suppliers to form trading relationships. After suppliers accept the invitations, you can send purchase orders to them through Ariba Network.

Suppliers receive the purchase orders and return invoices, etc. Each supplier has an Ariba Network account and can specify how it wants to receive orders and generate order confirmations, ship notices, and invoices, etc.

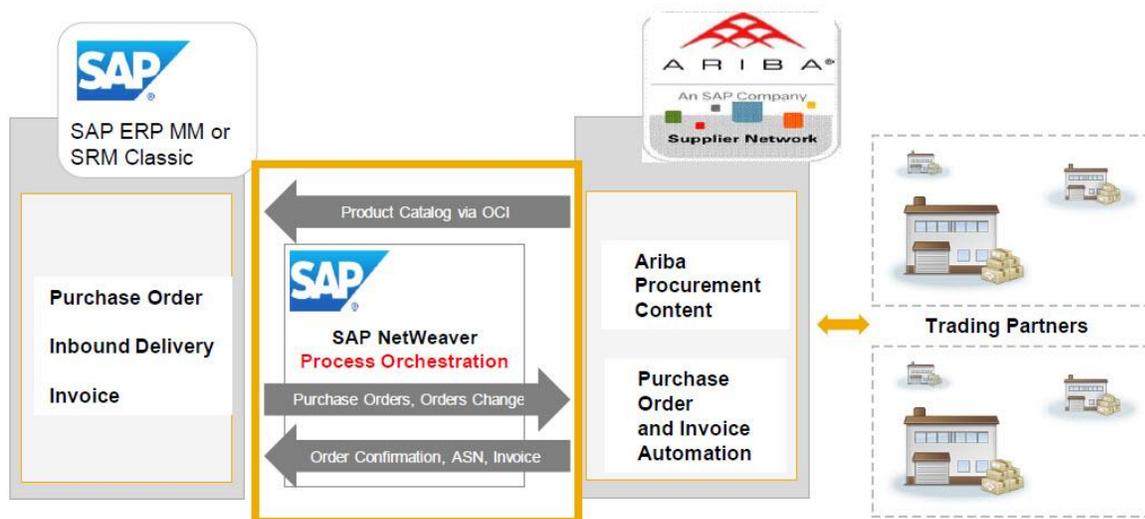
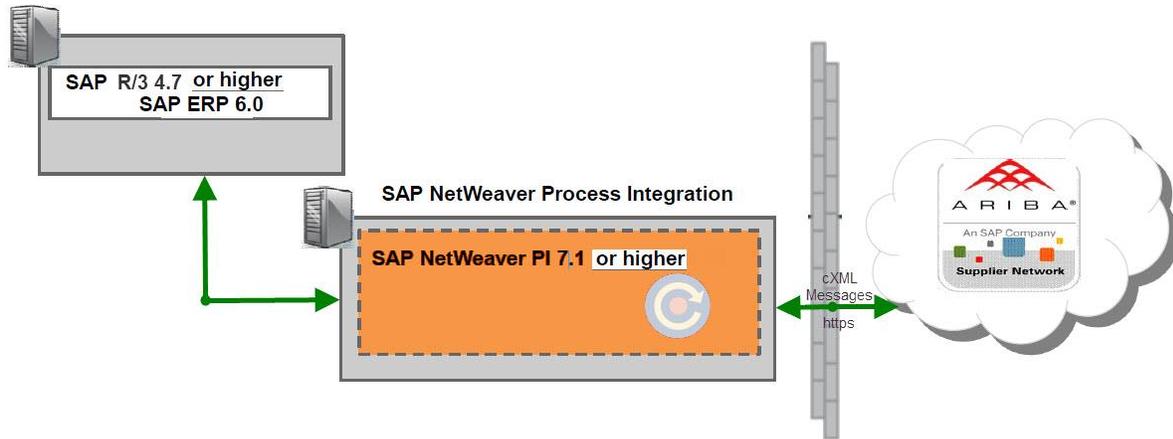
The following figure illustrates how Ariba Network routes purchase orders through multiple channels to suppliers.



How do Process Orchestration/Integration fits in the above B2B scenario?

If your business application does not generate and receive cXML documents natively, and you do not want to enhance it yourself, you can implement using a network adapter, a translator for communicating with Ariba Network on SAP NetWeaver Process Integration 7.10+, Process Orchestration 7.31+ and SAP R/3 4.7+, ECC5.0, 6.0 +.

The Ariba Network Adapter for SAP NetWeaver implements round-trip communication between your SAP ERP system and Ariba Network. Ariba provides an “Ariba Network Adapter for SAP Netweaver” for SAP Netweaver Process Orchestration/Integration, is an add-on module for SAP business applications that allows them to send and receive commerce eXtensible Markup Language (cXML) documents to and from Ariba Network. You can develop your own network adapter also instead of buying a commercial one based on Ariba Supplier Network cXML open standards.



- Secure connectivity between SAP NetWeaver Process Integration or (Process Orchestration) software and the Ariba Network through Adapter framework
 - SAP-Supported best practices Data mappings, Templates and tools for purchase order and invoice automation to the cXML format required for the Ariba Network
- Receiver Communication channel in Process Integration/Orchestration.**

Parameters	Identifiers	Module
Adapter Type *	AribaNetworkAdapterSAPNetweaver	http://ariba.com/xi/ASCAdapter
<input type="radio"/> Sender <input checked="" type="radio"/> Receiver		
Transport Protocol *	HTTPS	
Message Protocol *	JCA 1.0	
Adapter Engine *	Central Adapter Engine	
Outbound Request Type		
Outbound Request Type *	OrderRequest	
Deployment Mode		
Mode *	Test	
Authentication		
Credential Mode *	Shared secret	
Credential Domain *	Network Id	
Credential *	AN821588-T	
Shared Secret Password *	●●●●●●	= ●●●●●●
cXML Configuration		
End Point ID		
AN ID *	AN821588-T	
User Agent *	learnTestBuyer@piBlog.com	
Language *	en-US	
GetProfile URL *	https://service.ariba.com/service/transaction/cxml.asp	
GetProfile Interval (Minutes) *	60	
cXML Version *	1.2.022	
<input type="checkbox"/> Use XML Validation		
Proxy Server Configuration		
<input type="checkbox"/> Use Proxy Server		
Adapter Status		
Status	Active	
Attachment Configuration		
<input type="checkbox"/> Active Attachment Authentication		

Sender Communication channel in Process Integration/Orchestration.

Parameters Identifiers Module

Adapter Type *	AribaNetworkAdapterSAPNetweaver	http://ariba.com/xi/ASCAdapter	ARIBA_SUPPLIER_CONN_ADAPTER 11S2 of ariba.com
<input checked="" type="radio"/> Sender <input type="radio"/> Receiver			
Transport Protocol *	HTTPS		
Message Protocol *	JCA 1.0		
Adapter Engine *	Central Adapter Engine		

Inbound Request Type

Inbound Request Type * ConfirmationRequest

Deployment Mode

Mode * Test

Authentication

Credential Mode *	Client certificate		
Credential Domain *	Network Id		
Credential *	LEARN821588		
Certificate Service *	File System		
KeyStore Location *	file:/		
Store Password *	=
Key Password *	=
Port *	443		

cXML Configuration

End Point ID	
AN ID *	AN821588-T
User Agent *	LearnTestBuyer@piBlog.com
Language *	en-US
GetProfile URL *	https://certservice.ariba.com/service/transaction/cxml.asp
GetProfile Interval (Minutes) *	60
GetPending Interval (Minutes) *	15
Max Documents in GetPending *	2
cXML Version *	1.2.017
<input type="checkbox"/> Use XML Validation	
Status Update Request Retry Count	0
Status Update Request Retry Interval (Seconds)	0

Proxy Server Configuration

Use Proxy Server

Email Notifications

Use Email Notifications

Certificate of SSL Server

Use Alternative KeyStore

Adapter Status

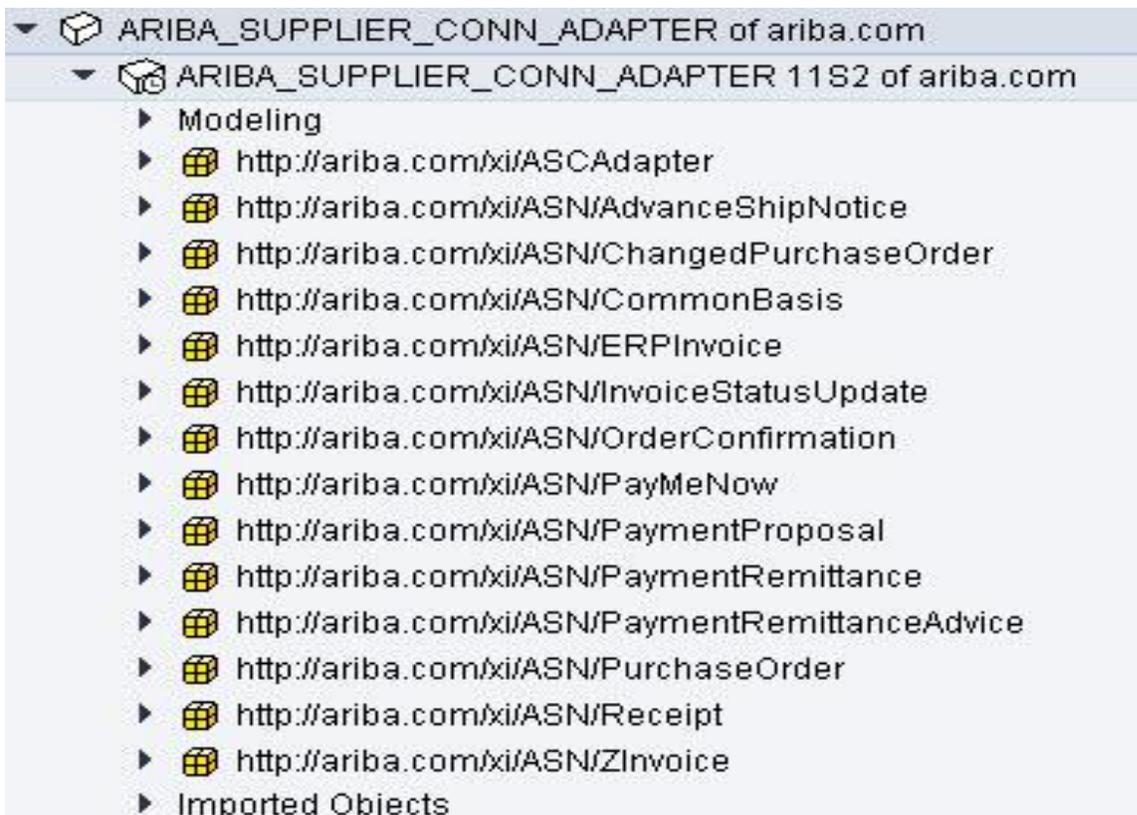
Status

Attachment Configuration

Attachment Download Location

SAP Pre-Delivered Integration Content for Ariba Network in ESR of Process Integration/Orchestration.

Ariba provides PI standard delivery content of Data Mappings between Business application and Ariba Network for Purchase Order and Invoice business scenarios.



Download and Installation

Ariba Network Adapter for SAP NetWeaver PI can be downloaded from Ariba DSC or marketplace. <http://connect.ariba.com>

Login to Ariba Connect and, Navigate to Software Online > Download Software > Ariba Adapter for SAP Netweaver.

1. Extract the archive file called “AribaNetworkAdapterSAPNetweaver_<versionNumber>.zip”.
2. Import the “AribaNetworkAdapterSAPNetweaver.Design.tpz” into ESR, which has the design packages and data mappings for all the transactions.
3. Deploy the adapter file called “AribaNetworkAdapterSAPNetweaver.sca” on PI J2EE engine using JSPM or SUM tool.
4. Extract the cXML configuration files for Adapter called “AribaNetworkAdapterSAPNetweaver.FileStruct.zip* “ into folder <Root>/etc/catalog/.
Note: * The <Root> mentioned in this blog corresponds to the folder where you extracted the “AribaNetworkAdapterSAPNetweaver.FileStruct.zip” files on PI server.

In addition, the validation engine uses the following files to resolve and identify the location of the DTDs related to the exchanged cXML documents: so copy the following files into <Root>/etc/catalog/.

- CacheCatalog.xml
- CanonicalCatalog.xml

5. Import Ariba Network Product and software component Definitions called “AribaNetworkAdapterSAPNetweaver.SoftwareCatalog.zip” into SLD. So that, SAP NetWeaver will now be recognized by the Enterprise Services Repository and Integration Directory.
6. Setup Technical and Business system as third Party in SLD for Ariba Network, and obtain Buyer or supplier registration account details from Ariba Network for enabling communication between SAP ERP and Ariba Network.

In addition, For quick Integration and enablement of this B2B business scenario, SAP provides a rapid deployment solution. <http://service.sap.com/rds-ariba?>
Limitations apply for higher or latest releases of PO or PI. Check coming SAP Notes.

Important Note: This Ariba Network Adapter communicate with Ariba Network over the Internet using cXML (commerce eXtensible Markup Language) to enable the communication between Ariba Buyer system and Ariba supplier with regards to Ariba Buyer BUT not for Ariba Supplier.

In simple terms, Ariba Network uses the cXML Profile transaction to check the Adapter capabilities of Ariba Buyer Only. As of today, we do not have any Ariba Seller adapter capability apart from functionality of Buyer Integration adapters.