Integrating Ariba Cloud Solutions with SAP

June 2016
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INTRODUCTION

SAP Ariba is the only cloud provider with true bi-directional integration into SAP ERP and SAP S/4 HANA including 86 Integration processes and over 4000 fields integrated to the SAP Core.

Integration with the Ariba solutions is achieved via the Ariba Cloud Integration framework. The Ariba Cloud Integration framework is a suite of components and complementary technologies that can be optionally deployed depending on a customer’s specific landscape. It can be installed as an
• Add-on to SAP ERP to directly connect to Ariba cloud solutions
• Adapter for SAP Process Integration (PI/PO)

This document provides an executive-level summary of some of the most typical integration options between the procurement capabilities provided by SAP ERP and the Ariba on-demand solutions.

The Customer Comes First

SAP Ariba understands that customers have already made significant investments in IT and infrastructure, and that SAP ERP landscapes in particular can be very complex for large enterprises. Many SAP ERP customers have a long history of customizations and extensions that fine-tune the solution to perfectly fit their specific need. Hence, no two SAP ERP landscapes are exactly alike. As a result, there is no single integration solution that can be deployed in exactly the same way for all environments. However, that does not mean that there cannot be a consistent and simple approach to integration.

SAP Ariba’s approach to integration starts with the following customer-centric integration goals:
• Protect and leverage customer’s SAP ERP investments
• Minimize overall integration costs.
• Deliver a best-in-class, seamlessly integrated procurement business process.
• Align with SAP’s strategy, assuring that today’s investments will continue to deliver value to customers for years to come.

To meet these customer-centric integration goals, SAP Ariba designed a flexible and simple integration framework and integration solutions based on:
• **Choice** – By designing the Ariba Cloud Integration framework to provide flexible integration options that fit into a customer’s landscape
• **Open Standards** – By using open standards and common technologies for connectivity and data exchange, allowing customers to leverage existing IT expertise
• **Simplicity** – By eliminating the need for new components, keeping the integration solution simple, and taking advantage of existing infrastructure and components
• **Extensible Business Processes** – By providing a rich portfolio of standard integrated business processes that customers can extend and adapt to meet their specific needs

![Diagram showing integration points between SAP ERP and Ariba solutions](image-url)
ARIBA CLOUD SOLUTIONS INTEGRATION WITH SAP ERP

SAP Ariba’s products are focused on two key areas:
• Ariba Network
• Ariba Applications - Ariba Procurement Solutions and Ariba Strategic Sourcing Solutions

In this paper we’ll explore the value proposition that each of these product areas brings to you, and how they can be integrated seamlessly to provide added benefits for SAP ERP customers.

Ariba Network

The Ariba Network is a cloud-based network where buyers and suppliers collaborate by managing different business processes either via the Ariba Network portal or by exchanging commerce extensible markup language (cXML) messages. Buying organizations use the Ariba Network to find suppliers and to run automated business transactions from ordering to issuing payments. Suppliers use the Ariba Network to find new business opportunities and to work more efficiently and effectively with their customers on all the shared aspects of business commerce: proposals, contracts, orders, invoices, and payments.

The Ariba Network is
• Open – Ariba Network can integrate various kinds of buyers and suppliers using different technologies and protocols.
• Comprehensive – Ariba Network supports all business processes and collaborations that are relevant for the procurement of goods and services.
• Intelligent - Ariba Network does not just transmit messages, but also validates their content to eliminate errors that delay processing and drive up cost.

SAP ERP customers integrate their system with Ariba Network when they want to manage their procurement process within their SAP ERP while also benefiting from the collaboration capabilities and efficiency gains that the Ariba Network can provide.

Ariba Network integration with SAP ERP is not limited to buying organizations. Suppliers on the Ariba Network can have their SAP ERP systems integrated with the Ariba Network as well.

Ariba Network and cXML

Ariba, with the input of many other companies, has defined cXML as an open protocol for business-to-business transactions in a commerce domain. This is the most comprehensive XML standard covering a wide variety of common business processes and the integration protocol that the Ariba Network is built upon. The cXML protocol is continuously updated to support new business processes and new business documents. See https://cXML.org for more information.

SAP Ariba provides native integrations with SAP solutions, which means direct support of cXML in SAP ERP, SAP Business Suite, SAP S/4 HANA, and other SAP solutions. In fact, S/4 HANA natively provides the Ariba integration and speaks the cXML language by default, which means you don’t need additional installation to integrate S/4 HANA with the Ariba Network.
Ariba Network and SAP ERP
The Ariba Cloud Integration framework provides the following standard paths to integrate SAP ERP with Ariba Network:
• SAP Business Suite Add-On for Ariba Network
• Ariba Network Adapter for SAP NetWeaver

SAP Business Suite Add-On for Ariba Network
The SAP Business Suite Add-On for Ariba Network is installed in the SAP ERP system. Its main purpose is to enable SAP ERP to natively communicate with the Ariba Network via cXML without the need for a protocol mapping between cXML and SAP technologies such as BAPI and IDOC.

With the SAP Business Suite Add-On for the Ariba Network, SAP ERP systems can send and receive cXML either directly or mediated via the SAP PI middleware. If SAP PI is already used for connecting legacy systems, mediated communication via SAP PI provides a flexible configuration option to also enable cXML connectivity.

Ariba Network Adapter for SAP NetWeaver
The Ariba Network Adapter for SAP NetWeaver is deployed in the SAP PI system to translate between cXML and traditional SAP interfaces such as IDOC, BAPI, and RFC. It consists of the following components:
• The design package in the SAP NetWeaver PI component, which contains integration processes, interface objects, and mappings.
• The cXML Adapter installed on the SAP NetWeaver PI component, which conforms to the J2EE Connector Architecture (JCA) specification, and implements the cXML transport protocol
• SAP Transport files installed on the SAP ERP system

Ariba Network and SAP ERP Integration Scenarios
SAP Ariba offers many different integration scenarios to support many business processes, but the most typical process is purchase order (PO) and invoice automation. In this scenario, users create POs in their SAP ERP system, which sends them to the suppliers on the Ariba Network for processing. Suppliers confirm orders or let their customers know if items are backordered, they can notify them that items have shipped, and send a PO invoice for payment. Business rules enforce process and document compliance. For example, you can require that a supplier must confirm an order, create a ship notice, or wait for a goods receipt notice before they can send an invoice.

Ariba Collaborative Supply Chain extends innovations in Ariba Network to provide enhanced supply chain visibility for direct materials for discrete and process manufacturing, consumer products and life sciences and for merchandise spend in the retail industry.

To improve poor supply chain visibility, communication, and collaboration among supply chain partners, CSC was developed to be comprehensive direct material and supply chain collaboration tools with industry specific aspects and a single access point and collaboration platform for all partners across different supply chains.

The following illustrates a typical order collaboration and invoicing data flow with supported standard integration points:

<table>
<thead>
<tr>
<th>ARIBA DOCUMENT AUTOMATION – PURCHASE ORDER COLLABORATION AND INVOICES</th>
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</thead>
<tbody>
<tr>
<td><img src="chart.png" alt="Flowchart" /></td>
</tr>
</tbody>
</table>

General flow is left to right. Arrows illustrate the key integration touch points between solutions. Integration flows inside a solution are not considered. * Vertical gray topics have integration to many areas. Arrows not shown for brevity
Ariba Sourcing Solutions

The Ariba strategic sourcing and contract management solutions cover what is sometimes called strategic procurement. This includes collaborative sourcing (finding suppliers for a given need), collaborative contract management, supplier information and performance management, and spend analysis.

Ariba strategic sourcing and contract management integration with SAP ERP is implemented when a customer wants to manage their operational procurement process within their SAP ERP, separate from their strategic procurement process in Ariba Sourcing.

Ariba Sourcing & Contract Management Integration with SAP ERP

Ariba Sourcing Integration

The standard integration between SAP ERP and Ariba Sourcing supports integrated sourcing events which are initiated from SAP ERP. The supported starting points are:

- Manually created purchase requisitions in SAP ERP MM that then create a Request for Quotation (RFQ)
- Automatically created purchase requisitions during MRP run that then create an RFQ
- Manual creation of SAP ERP RFQ without purchase requisition

An RFQ is sent through the Ariba Network Adapter for SAP PI to the Ariba Network and from there to Ariba Sourcing as a sourcing request. The sourcing request can be routed to the appropriate Sourcing Manager based upon the header data sent from ERP. The sourcing manager is notified to review the sourcing request, edit it if necessary, send it for approval if required, and then creates a sourcing project based upon the most appropriate template.

The sourcing project allows the sourcing manager to manage every aspect of the sourcing event from creation, collaboration with suppliers, monitoring the execution, scoring and grading of supplier responses, and awarding suppliers. A sourcing event can be a Request for Information (RFI), Request for Proposal (RFP) or an auction.

When the sourcing manager creates awards for the event, Ariba Sourcing sends a cXML document based on the award and sends it to the ERP system. The ERP creates a purchase order or contract from the cXML document.

Ariba Contract Management Integration

When a buyer publishes a contract, Ariba Contract Management sends contract information such as the contract header data and line-item data to SAP ERP. SAP ERP then creates an outline agreement based on the contract information received from Ariba Contract Management.

Master Data Integration

Buyers using Ariba Sourcing or Ariba Contract Management can import organizational data, cross application data such as incoterms and payment terms, and material master data from SAP ERP systems. This allows buyers to initiate the sourcing process in Ariba Sourcing and send the award to SAP ERP.

ARIBA SOURCING & CONTRACTS INTEGRATION TO SAP ERP

<table>
<thead>
<tr>
<th>Ariba Sourcing &amp; Contracts</th>
<th>Sourcing Request</th>
<th>Sourcing Project</th>
<th>RFX/Auction</th>
<th>Award</th>
<th>Contract</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ariba Network</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>SAP ERP</td>
<td>Purchase Requisition</td>
<td>RFQ</td>
<td></td>
<td></td>
<td>Purchase Order</td>
</tr>
</tbody>
</table>

General flow is left to right. Arrows illustrate the key integration touch points between solutions. Integration flows inside a solution are not considered. * Vertical gray topics have integration to many areas. Arrows not shown for brevity.
Supplier Information and Performance Management (SIPM)
The integration of Ariba Supplier Information and Performance Management with SAP Master Data Governance (MDG) and SAP ERP now enables seamless sharing and reuse of supplier information between the two systems. This bi-directional integration is available in both the DirectConnect as well as the mediated connectivity option using SAP NetWeaver PI, and includes the initial load as well as incremental updates. The two main use cases supported are:

- Upload existing supplier master data from SAP ERP to SIPM followed by the invitation to suppliers to register via Ariba Network.
- Download new supplier data from SIPM to SAP ERP for suppliers who self-register and who are successfully qualified.

Ariba Spot Quote
Sometimes buyers have an unplanned and immediate need for certain items that are not covered by contracts and strategic sourcing. These ad-hoc, one-time purchases are known as tactical spend. Ariba Spot Quote, which builds upon the core functionality provided by Ariba Sourcing, Ariba Discovery, and Ariba Network, is a solution that optimizes such ad-hoc activities and automates the process completely or partially. Ariba Spot Quote also includes supplier enablement features of the Ariba Network to onboard new suppliers and to import their vendor data from the buyer’s ERP system.

Spot Quotes are ideal for smaller events, for example an event with 3 to 4 suppliers, allowing a buyer to quickly experience online sourcing without a substantial commitment of time or resources.

Ariba Spot Quote Integration with SAP ERP
The Ariba Spot Quote with SAP ERP integration starts in the SAP system, when a user creates an RFQ (Request for Quotation) from a purchase requisition or from scratch. Users enter event open and close dates, and specify line items with material groups and receiving plants.

The RFQs are sent through the Ariba Network Adapter for SAP PI to the Ariba Network and from there to Ariba Sourcing, which automatically creates an RFQ event and publishes it on Ariba Discovery. Suppliers can either be invited as part of the Spot Quote event or matched through Ariba Discovery based on product and service categories and location. If an invited supplier is not registered on Ariba Network, an Ariba Network account is automatically created for them.

Invited and matched suppliers receive notifications about the Spot Quote event from Ariba and can then respond directly to the RFQ event in Ariba Sourcing. Depending on how Ariba Spot Quote is configured, supplier responses can automatically be sent back to the SAP ERP system as purchase orders with no action from project owners, or buyers can manually award suppliers directly in the Ariba Spot Quote solution.
### SAP ERP – Ariba Spot Quote Process Flow

<table>
<thead>
<tr>
<th>Ariba Discovery</th>
<th>Supplier response</th>
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<tbody>
<tr>
<td>Ariba Sourcing</td>
<td>Spot Quote Event created</td>
</tr>
<tr>
<td>Ariba Network</td>
<td>Run rules and create event</td>
</tr>
<tr>
<td>SAP ERP</td>
<td>Purchase Requisition</td>
</tr>
</tbody>
</table>

- **Yellow** Buyer activity
- **Blue** Supplier activity
- **Purple** Ariba activity (automated or manual)
- **Gray** Existing standard integration scenarios

General flow is left to right. Arrows illustrate the key integration touch points between solutions. Integration flows inside a solution are not considered. * Vertical gray topics have integration to many areas. Arrows not shown for brevity.
Ariba Procurement and Invoicing Solutions

Ariba procurement and invoicing solutions cover the operational procurement processes, which include:

- Managing catalogs
- Creating and approving purchase requisitions
- Creating and sending POs
- Recording the receipt of goods and services
- Receiving invoices (sent from the suppliers electronically through the Ariba Network, or as paper invoices)
- Reconciling invoices against contracts, POs and/or receipts
- Real-time budget check with fund reservation in SAP ERP
- Taxes and charges in requisitions and purchase orders

SAP Ariba Procurement and Invoicing Solution Integration with SAP ERP

The data managed by the Ariba procurement and invoicing solution includes the buyer catalogs, transaction documents (for example requisitions, POs, receipts, invoices) and master data, such as user, accounting, and supplier data. The Ariba Cloud Integration framework enables the integration between the Ariba procurement solution and SAP ERP for the exchange of both transactional data and master data.

Data can be extracted and transferred directly between SAP ERP systems and the Ariba procurement solution or through a mediated connectivity using SAP NetWeaver PI.

Master Data Integration

Among the master data that the Ariba procurement solutions can import from an SAP ERP systems are users, user groups, vendors, accounting information, purchasing organizations, tax codes, currency exchange rates, plant, internal orders, WBS elements, and fund management accounting objects.

The Ariba Cloud Integration framework supports the integration of these without requiring complex customizations or mappings. Options for master data integrations are:

- **Direct connectivity**: File-based though CSV file integration
- **Mediated connectivity through SAP NetWeaver PI**: File-based through CSV file integration

For a complete list of master data that are integrated with SAP ERP, see the “Ariba Procurement Solution Integration – Supported SAP ERP Master Data” appendix on page 2.

Integrating Transactional Data

On the SAP ERP side, Ariba procurement solutions integration for transactional documents are based on SAP BAPI technology. This allows for a fully synchronous integration process, providing real-time integration, validation, and SAP PO number generation all within a single step.

Integrate transactional data using the following methods:

- **Direct connectivity**: File-based through CSV file integration using the Ariba Data Transfer Tool
- **Mediated connectivity through SAP NetWeaver PI**: web-service based integration or file-based through CSV file integration using the Ariba Data Transfer Tool

The following process diagram demonstrates a typical integration flow between SAP ERP and Ariba Procure-to-Pay. The process begins when a user creates a requisition in Ariba Procure-to-Pay. The user can optionally check real-time availability of budget in ERP and reserve against the budget. When the requisition is fully approved one or more POs are created that are sent to the suppliers on the Ariba Network and to SAP ERP. Depending on the integration technology you choose from the Ariba Cloud Integration framework, any changes or cancellations to POs in Ariba Procure-to-Pay can be reflected in SAP ERP in near-real-time. If receiving is enabled in Ariba Procure-to-Pay, good receipts information can also be transferred from the Ariba solution to SAP ERP.

Suppliers typically create invoices on the Ariba Network by ‘flipping’ a PO into an invoice. The Ariba Network’s business rules engine ensures that the invoice meets certain defined criteria. If the invoice passes validation, it is sent to Ariba Procure-to-Pay, where the invoice is either manually or automatically checked (reconciled) against receipts and the PO in a 3-way match. If the invoice is successfully reconciled, it is sent to SAP ERP as an approved invoice for payment.
### ARIBA PROCUREMENT-TO-PAY – BASIC SCENARIO

<table>
<thead>
<tr>
<th>Ariba Network</th>
<th>Punch-out catalog</th>
<th>Purchase order</th>
<th>Purchase order confirmation</th>
<th>Advanced ship notice</th>
<th>Order update with receipts</th>
<th>Invoice</th>
<th>Invoice status update</th>
<th>Payment status update</th>
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<tr>
<td>Ariba Procure-to-Pay</td>
<td>Purchase Requisition</td>
<td>Catalogs</td>
<td>Approval</td>
<td>Order confirmation</td>
<td>Good receipt</td>
<td>Invoice</td>
<td>Reconcile</td>
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<tr>
<td>SAP ERP</td>
<td>Budget Check &amp; Reserve</td>
<td>Purchase Order(s)</td>
<td>Good receipt</td>
<td>Invoice (MIRO)</td>
<td>Payment</td>
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</tbody>
</table>

- **Buyer activity**
- **Supplier activity**
- **Existing standard integration scenarios**

General flow is left to right. Arrows illustrate the key integration touch points between solutions. Integration flows inside a solution are not considered. * Vertical gray topics have integration to many areas. Arrows not shown for brevity.
Ariba Cloud Integration Gateway, powered by SAP Hana Cloud Integration (HCI), redefines how our customers integrate with the world's largest B2B network. Ariba Cloud Integration Gateway has many innovative features that provides our suppliers a simple and efficient way to integrate with Ariba Network using standards, other than cXML. It reduces the deployment time for our suppliers to integrate with the Ariba Network. It includes a nifty browser-based application that allows your backend system to connect with Ariba Network easily and a powerful transformation engine that handles all data transformations and validations. The Ariba Cloud Integration Gateway, powered by SAP HANA Cloud Integration, is hosted and supported end-to-end by SAP Ariba. This is only available for Network supplier-side integration.

**Standard Features**

**Connect once:** Ariba Cloud Integration Gateway changes how suppliers integrate and manage their integration. Today, managing unique integration requirements for each customer poses big challenges for suppliers who integrate with multiple customers. With Ariba Cloud Integration Gateway, you connect once to the Ariba Network and manage a single configuration based on your core transaction capabilities regardless of your customer requirements. Of course, if required, you can also configure unique customer integrations.

**Single sign-on with Ariba Network:** Using the single sign-on functionality, users can access their Ariba Cloud Integration Gateway account from their Ariba Network account or they can access their Ariba Cloud Integration Gateway account with their Ariba Network username and password directly. Access to the Ariba Cloud Integration Gateway account is permission based, so the account administrator can control which users are allowed to configure and manage your customer integrations.

**Standard(s) mapping repository:** Ariba Cloud Integration Gateway supports the D96A and ANSI x12 v4010 standards that provide suppliers the flexibility to use non-cXML data formats to transact with their customers on Ariba Network. Transactions include Purchase Order, Order Confirmation, Advance Ship Notification and Invoice.

**Connection protocol(s):** Ariba Cloud Integration Gateway supports AS2 protocol to provide enhanced security for suppliers transacting on Ariba Network. Suppliers can manage their connections by using certificate-based or basic authentication.

**Integration wizard:** The integration wizard automates complex integration tasks by asking a series of easy-to-answer questions. The answers you provide help Ariba Cloud Integration Gateway derive transaction configurations. What's more, you can reuse all these configurations for future integrations with other customers.

**Developer tools:** The Ariba Cloud Integration Gateway has various tools that are designed to make integrations with Ariba Network simple. The Transformation tool transforms the data and verifies that the data meet your customers’ requirements. The Schema Validation tool allows easy validation to ensure that the formatting is accurate and acceptable.

**1-click deployment:** Once you have verified your integration project, a single-click deployment option deploys the integration project to production.

**Transaction tracker with search capability:** The Transaction tracker allows easy search and tracking of the status of transactions on Ariba Network. User can also download the source & destination transactions; including attachment(s), processed by Ariba Cloud Integration Gateway.
Integrating Ariba Cloud Solutions with SAP ERP

THE FUTURE OF SAP: S/4HANA AND THE INTEGRATED BUSINESS NETWORK

SAP S/4HANA is the next-generation business suite product that provides innovative, tightly-coupled solutions that support end-to-end business processes integration between SAP S/4HANA Core components and SAP SaaS Cloud Solutions, such as

• **Ariba** procurement and sourcing solutions -- The Ariba Network connects more than 1.8 million buyers and sellers generating close to U.S. $1 trillion in commerce annually.
• **Concur** travel and expense (T&E) -- Concur’s travel and expense ecosystem consists of 20,000 customers, 30 million end users, and hundreds of developer partners, all processing more than U.S. $50 billion worth of T&E spend a year.
• **SAP Fieldglass** contingent labor and services -- More than 7 million users and 40,000 suppliers are managing over U.S. $25 billion in global spend annually using SAP Fieldglass solutions, placing 1.4 million contingent workers in over 100 countries.

SAP S/4HANA can be deployed on-premise or in the cloud. It is built on the SAP HANA core, where the basic setup, master data, and core processes are defined and applied, and around which everything else can be built in a sustainable way.

Today, SAP ERP integration to SAP Ariba cloud solutions is made possible via SAP ERP add-ons and the Ariba Network Adapter for SAP NetWeaver. With SAP S/4HANA, the add-ons become the basis for native integration support.

Ariba will continue to provide integration support through the SAP NetWeaver PI adapter and upcoming SAP HANA Cloud Integration releases.

**Upcoming Ariba Cloud Integration Enhancements**

SAP Ariba will deliver major innovations in its next Ariba Cloud Integration release to help customers integrate their back-end SAP ERP systems, and reduce the time needed to integrate Ariba solutions.

On the Ariba Network side, key planned integration enhancements are:

• A new, abstracted integration layer will allow suppliers to integrate once to the Ariba Network, not to a specific buyer. Buyers will map to the standard way that suppliers are integrated, without customizations.
• Faster creation of buyer-supplier relationships. Once suppliers are connected, 100% of their buyer relationships are integrated.

On the applications side, key planned integration enhancements are:

• Support S/4HANA 1511 On-premise version
• Support ECC 6.0 EHP 8
• Support for PI 7.5
• Ariba Cloud Integration Gateway for Network supplier-side integration
• Integration support for Suppliers D96A (phase 2), ANSI X12 4010 (Phase 2), D98A, ANSI X12 5010
• Service PO, SES and Service Invoice integration for P2P-SAP
• Advance Payment
• Supply Chain Finance
APPENDIX

Integration Message Formats

<table>
<thead>
<tr>
<th>SAP ERP Protocols</th>
<th>Ariba Protocols</th>
<th>EDI</th>
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<tbody>
<tr>
<td>• IDOCS</td>
<td>• cXML</td>
<td>• EDIFACT</td>
</tr>
<tr>
<td>• RFCs</td>
<td>• MIME</td>
<td>• ANSI X12</td>
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<tr>
<td>• Web Services (SOAP)</td>
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</table>

Supported SAP systems

<table>
<thead>
<tr>
<th>SAP ERP Releases</th>
<th>SAP NetWeaver PI Releases</th>
<th>SAP MDG releases</th>
<th>S/4HANA</th>
<th>SAP HANA Cloud Integration *</th>
</tr>
</thead>
<tbody>
<tr>
<td>• SAP ERP 6.0</td>
<td>• SAP NetWeaver 7.1</td>
<td>• SAP Master Data Governance 6.1</td>
<td>1503 OnPremise</td>
<td>• SAP HANA Cloud Integration</td>
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<td>• SAP NetWeaver 7.3</td>
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<tr>
<td>• SAP ERP 6.0 EhP3</td>
<td>• SAP NetWeaver 7.4</td>
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<td>• SAP ERP 6.0 EhP4</td>
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<td>• SAP ERP 6.0 EhP5</td>
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<td>• SAP ERP 6.0 EhP6</td>
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<td>• SAP ERP 6.0 EhP7</td>
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* Network supplier-side integration only

Ariba Cloud Integration Supported Solutions

<table>
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<tr>
<th>Ariba Network</th>
<th>Strategic Procurement</th>
<th>Operational Procurement</th>
</tr>
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<tbody>
<tr>
<td>• Ariba Collaborative Finance</td>
<td>• Ariba Collaborative Sourcing (Transaction Data)</td>
<td>• Ariba Procure-to-Pay</td>
</tr>
<tr>
<td>• Ariba Collaborative Commerce</td>
<td>• Ariba Sourcing Professional (Transaction Data)</td>
<td>• Ariba Procure-to-Pay Federated Process Control</td>
</tr>
<tr>
<td>• Ariba Document Automation (Includes Invoice and PO Automation)</td>
<td>• Ariba Spend Visibility Professional</td>
<td>• Ariba Procure-to-Order</td>
</tr>
<tr>
<td>• Ariba Collaborative Supply Chain</td>
<td>• Contract Management</td>
<td>• Ariba Procure-to-Order Federated Process Control</td>
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<tr>
<td>• Ariba Contract and Services Invoicing</td>
<td>• SIPM (Supplier Information &amp; performance Management)</td>
<td>• Ariba Procurement Content</td>
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<tr>
<td>• Ariba Discount Professional</td>
<td></td>
<td>• Ariba Invoice Professional</td>
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<tr>
<td>• AribaPay</td>
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<td>• Ariba Spot Quote</td>
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Ariba Network Integration – Supported Transactions

- PO
- Change PO
- Cancel PO
- Order Confirmation
- ASN
- Receipt
- Invoice (includes Credit Memo)
- Invoice Status
- Carbon Copy (CC) Invoice
- Payment Remittance
- Remittance Status Update
- Order Inquiry Request
- Scheduling Agreement (includes Forecast/Delivery Schedule & JIT)
- Service Sheet Request
- Forecast / Demand
- Status Update Request
- Quote Request
- Quote Message
- Inbound Payment Proposal
- Outbound Payment Proposal
- Sourcing Request
- Sourcing Award
- Payment Instruction File (PIF)

Ariba Sourcing Solution Integration – Supported Master Data

- Purchasing Organization
- Purchasing Groups
- Company Code
- Payment Terms
- Supplier (Inbound)
- Supplier (Outbound)
- Plants
- Incoterms
- Material Groups (Product Categories)
- Material Master
- Material Master Plant
Ariba Sourcing Solution Integration – Supported Transactions

- RFQ
- Award
- Contract Workspace/Outline Agreement

Ariba Procurement Solution Integration – Supported Master Data

- Account Category Field Status
- Account Categories
- Assets
- Company Codes
- Company Code Internal Order mapping
- Company Code WBS Element mapping
- Cost Centers
- Cost Center Languages
- Currency Conversion Rates
- ERP Commodity Codes
- General Ledger
- General Ledger Languages
- Internal Orders
- Plant
- Plant to Purchasing Organization
- Purchase Groups
- Purchasing Organizations
- Purchasing Organization Supplier Combo
- Tax Codes
- WBS Elements
- User Data
- User Group mapping
- Remittance Locations
- Supplier Data
- Supplier Location
- Payment Terms
- Contracts
- Fund Management Objects
- FM Derive

Ariba Procurement Solution Integration – Supported Transactions

<table>
<thead>
<tr>
<th>To SAP ERP</th>
<th>From SAP ERP</th>
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<tbody>
<tr>
<td>• PO</td>
<td>• PO Status</td>
</tr>
<tr>
<td>• Change PO (includes Cancel PO)</td>
<td>• Change PO Status</td>
</tr>
<tr>
<td>• Receipts</td>
<td>• Receipt Status</td>
</tr>
<tr>
<td>• Invoices (Ok-to-pay)</td>
<td>• Invoice Status</td>
</tr>
<tr>
<td>• Expense Report</td>
<td>• Remittances</td>
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<tr>
<td>• Catalog</td>
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