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# **SOAP** web service API integration guide

**SAP Ariba Contracts** 

**SAP Ariba Sourcing** 

SAP Ariba Strategic Sourcing Suite

**SAP Ariba Supplier Information and Performance Management** 

**SAP Ariba Supplier Lifecycle and Performance** 



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# **Using SOAP Web Service APIs for Data Integration**

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### About SAP Ariba SOAP Web Service APIs

SAP Ariba SOAP web service APIs enable you to exchange data between SAP Ariba Strategic Sourcing solutions and other systems, such as ERP systems, for real-time data integration. In many cases, the SAP Ariba web services are used between the SAP Ariba solution and an intermediary Enterprise Application Integration (EAI) system that handles web service communication for an ERP system. For simplicity, the term "ERP" is used in this chapter to refer to either an EAI or an ERP system.

SAP Ariba SOAP web services use the W3C SOAP messaging framework to exchange messages over HTTP or HTTPS. If you are using an outbound web service (a service initiated by the SAP Ariba solution), SAP Ariba strongly recommends that you use SAP Ariba SOAP web services over an HTTPS link to the ERP system. For more information, see Authentication and Security for Web Services [page 17].

The SAP Ariba Integration Manager generates descriptions of the SAP Ariba SOAP web services operations in the Web Services Description Language (WSDL), an XML-based language. Typically, developers on the ERP system use the WSDL descriptions when creating applications to communicate with SAP Ariba SOAP web services. There are numerous software development packages that can read WSDL files and use them to create web service clients.

SAP Ariba offers integration services to implement an end-to-end solution for you using SAP Ariba web services. If you are interested in using SAP Ariba integration services, contact your customer support manager or account manager for more information.

#### i Note

SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture) solutions use a unified vendor model instead of the classic supplier organization model. The integration methods documented in this guide support a limited integration of supplier data to the unified vendor model. See Using SOAP web service APIs for supplier data integration with the unified vendor model [page 12] for details.

# SAP Ariba SOAP Web Services Integration Tasks and End Points

SAP Ariba SOAP web services include integration tasks that send and receive SOAP messages for web services. An integration task requires an end point for the logical communication channel used by the web service. An end point consists of the URL and authentication information that controls access to the end point. There are two types of end points: inbound and outbound. Inbound end points are used when the task is initiated by the ERP system. Outbound end points are used when the task is initiated by the SAP Ariba system.

## **Contract Project Operations**

The following table lists operations for contract projects with the integration task and end point type needed

To perform this operation	Enable this integration task	With this end point type
Create an internal contract workspace or update the header fields of an internal contract workspace.	Import Internal Contract Workspace	Inbound
Create a procurement contract request or update the header fields of a procurement contract request.	Import Procurement Contract Request	Inbound
Create a procurement contract workspace or update the header fields of a procurement contract workspace.	Import Procurement Contract Workspace	Inbound
Create a sales contract request or update the header fields of a sales contract request.	Import Sales Contract Request	Inbound

To perform this operation	Enable this integration task	With this end point type
Create a sales contract workspace or update the header fields of a sales contract workspace.	Import Sales Contract Workspace	Inbound
Download contract header fields to an external system that sends a web service request. The request can include filters to select contract workspace by ID, date last modified, and status.	Download Contract Header Fields	Inbound
Automatically export contract workspace IDs to an external system when a workspace is created or published.	Export WorkspaceId	Outbound; for additional requirements, see Enabling External Exports for Workspace IDs [page 22]. You can also configure email notifications if this service fails, as described in Configuring Email Notifications for Outbound Web Services [page 24].
Download a Contract Terms Excel file containing pricing terms or Contract Line Items Document (CLID) to an external system that sends a web service request; the file can be downloaded in Excel or CSV format.	Download Contract Terms	Inbound
This feature can also be used to download a document with the <b>Use As</b> option set to <b>Contract Content</b> in a contract workspace, such as a pricing terms document.		
Export a Contract Terms Excel file document containing pricing terms or Contract Line Items Document (CLID) to an external system after a user selects the Export External System option for the document. This feature is available if SAP Ariba Contracts is integrated with one of the SAP Ariba Procurement solutions.	Export Contract Terms	Outbound; for additional requirements, see Enabling External Exports for Contract Terms [page 23]
Import a contract line items document (CLID) into a specified contract workspace	Import CLID using XML	Inbound

# **Sourcing Event and Sourcing Project Operations**

The following table lists operations for sourcing events and sourcing projects with the integration task and end point type needed.

To perform this operation	Enable this integration task	With this end point type
Create a sourcing event or update the header fields of a sourcing event in an existing full sourcing project.	Import Sourcing Event	Inbound
Create a full sourcing project or update the header fields of a full sourcing project.	Import Sourcing Project	Inbound
Request results for a sourcing (RFX) award by ID.	Download RFX Awards	Inbound
Request results for all RFX awards created within a specified date range	Download RFX Awards with Filters	Inbound
Send RFX award results to the ERP system. This is an outbound web service that can be configured to be executed by a scheduled task.	Export RFX Awards	Outbound; for additional requirements, see Enabling Export RFX Awards Tasks [page 24]. You can also configure email notifications if this service fails, as described in Configuring Email Notifications for Outbound Web Services [page 24]
Retrieve values for <b>Document URL</b> line item terms. The purpose of a <b>Document URL</b> term is to provide a link ( <b>URL</b> ) that participants can click to obtain documents from your site about the item with a <b>Description</b> .	DocumentURLOutBo und	Outbound
Send event status update changes so you can change the availability or state of documents referenced in a <b>Document URL</b> term. You must use this service with the DocumentURLOutBound service (the request requires a UniqueId returned in a DocumentURLOutBound response).	DocumentStatusCh angeNotification	Outbound

RFX award results can include the following data: line item/part information (including the commodity code), bid details, suppliers, contract terms, standard and custom project header fields.

# **Knowledge Project Operation**

The following table lists the operation for knowledge projects with the integration task and end point type needed

To perform this operation	Enable this integration task	With this end point type
Create a knowledge project or update the header fields of a knowledge project.	Import Knowledge Project	Inbound

# **Document Operations**

The following table lists the operations for documents with the integration task and end point type needed

To perform this operation	Enable this integration task	With this end point type
Download a document.  This service is supported only for file-based documents.	Download Document	Inbound
Request the IDs of all documents modified (or created) within a specified date range.  This service is supported only for order form documents.	Download Document IDs	Inbound
Import or update a project document. This feature cannot be used for form documents, or the following SAP Ariba Contracts documents: assembled contract documents, or pricing terms (contract terms) documents.	Import Document	Inbound
Import or update a contract line items document in an existing SAP Ariba Contracts Professional procurement contract workspace.	Import Contract Line Items Document	Inbound
Update document form header fields in a workspace.	Import Form Document	Inbound
i Note This service is not supported.		

# **User, Organization, and Supplier Operations**

The following table lists operations to manage users, organizations, and suppliers with the integration task and end point type needed

To perform this operation	Enable this integration task	With this end point type
Add new users to SAP Ariba or update user information.	Import Users	Inbound
Add existing users to an existing group.	Add Users to Group	Inbound
Delete users from SAP Ariba.	Delete Users	Inbound
Export Supplier Profiles to an external system that sends a web service request. Requests can include a date range for incremental exports.	Export Supplier Profiles	Inbound
Import Supplier Profiles from an external system.	Import Supplier Profiles	Inbound
Export data about the organizations configured for your site. Requests can include a date range for incremental exports; requests can also include an element to export only active organizations.	Export Organizations	Inbound
Import Organizations from an external system.	Import Organizations	Inbound
Delete Organizations from SAP Ariba.	Remove Organizations	Inbound

## **SOAP Web Service APIs Use Cases**

## **SAP Ariba Sourcing**

If you synchronize the commodity codes in your SAP Ariba Sourcing account with the codes on your back-end system, you will be able to reconcile and track line items in an SAP Ariba Sourcing event or award in your back-end system. For example, you could use information exported from contracts awarded from an SAP Ariba Sourcing auction or RFQ to track line item spend on your back-end system.

You can use the Import Commodity Codes task from the Ariba Administrator UI or the Import Master Batch Data event with the SAP Ariba integration toolkit (ITK) to import code values from your back-end system to SAP Ariba Sourcing.

You can create an SAP Ariba sourcing event (such as an RFQ or auction) from information in your back-end system. Export the contents of an existing event of the same type to an Microsoft Excel file to create a template as described in the Event Management Guide. You can also create CSV templates from the Excel file. Insert data from your back-end system to the Excel files or CSV files. Specify the appropriate commodity code in the Commodity column of the Pricing sheet (Excel) or the Pricing CSV file. Create a ZIP file with the Excel file or CSV files.

Use the Import Sourcing Project web service to create a full or quick sourcing project.

Use the  ${\tt Import\ Sourcing\ Event\ web}$  service to create or specify information for your event and include the ZIP file you created with data for the event.

Use the SAP Ariba interface to monitor the event. When the event is complete, use the SAP Ariba interface to create awards for the event.

Use one of the following web services to transfer event award data to your back-end system:

- Download RFX Awards (requires the event ID)
- Download RFX Awards with Filters (run this periodically with time and date filters)
- Export RFX Awards (receive RFX award data when the SAP Ariba system periodically pushes the data)

### SAP Ariba Contracts

You can collect information for a contract workspace or request using your front-end system or your own web service and use an import contract web service (such as Import Procurement Contract Workspace) to create the workspace or contract request on the SAP Ariba system.

Alternatively, you can use the SAP Ariba interface to create a contract workspace, then push contract header information to your back-end system for processing. Use the Export WorkspaceId web service to receive the IDs of workspaces as they are created, then use the Download Contract Header Fields web service to pull contract header fields of the created workspaces to your back-end system.

If you have SAP Ariba Sourcing and SAP Ariba Contracts you can create a contract workspace after creating an award from a sourcing event, and the contract workspace can include a pricing terms document or a Contract Line Items Document (CLID). Use the Export Workspace Id web service to receive the IDs of workspaces as they are created, then specify the workspace ID in a Download Contract Terms web service request to export the pricing terms document or the Contract Line Items Document (CLID).

### **Limitations for SOAP Web Service APIs**

- The variant and partition elements in the WSDL descriptions are not used. Do not specify values for these elements.
- The Import Form Document task is not currently available.
- The Import Document task cannot be used to import assembled contract documents (Main Agreement or Contract Addendum documents).
- If you use an Import task to create a project, you cannot specify whether or not the project will be a test project. All projects created using SOAP are non-test projects.
- If you use an Import task to create a project, you cannot specify responses to template questions. (If there is a default response defined for the question, the default answer is used. If there is no default response defined, the value for the response will be undefined.) SAP Ariba does not support project creation from templates with questions when using SAP Ariba Web Services.
- If you use an Import task to create or update a project and attempt to set a custom text field with an enumerated type to an incorrect value (such as the value from the <code>Display Value</code> column of the enumeration file instead of a value from the <code>Value</code> column), the web service does not return an error. When viewing the project attributes in SAP Ariba, the field appears to be set to the display value. However, if you attempt to edit the project attributes, you will see that the field is not set. For more information about setting values for custom fields with custom enumerated types, see Specifying Values for Custom Fields with Enumerated Types [page 32].

- If you use an Import task to create or update a project and attempt to set a custom field with a multiple-select enumerated type and specify multiple instances of the same value, the web service does not return an error or remove duplicate values.
- If you use an Import task to create or update a project and attempt to set a custom field with a single-value FMD type to an incorrect value (a value that is not a valid unique name for that FMD definition), the web service does not return an error.
- If you use an Import task to create or update a project and attempt to set a custom field with a multiple-select FMD type and specify multiple instances of the same unique name, the web service does not return an error or remove duplicate values.
- The RFX award CSV files sent by web services (Download RFX Award response AwardDocument elements and Export RFX Award request Award elements) contain a header line but no award data if the event has no line items.

# Using SOAP web service APIs for supplier data integration with the unified vendor model

You can use the SOAP web service APIs for integration of a limited amount of supplier data with SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture), which use the unified vendor model.

The SAP Ariba integration toolkit is designed for integration of supplier data to the classic supplier organization model. SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture) use a unified vendor model, which is more ERP-like in structure. If you add one of those solutions to your existing solution package, you can continue to use your existing SOAP web service API integration configuration for a limited amount of supplier data.

#### **Prerequisites**

SAP Ariba Customer Support must enable the following parameters in your site:

- Application.SM.ITKImportProfileInSM
- Application.SM.VendorContactPushTaskEnabled
- Application.SM.VendorPushTaskEnabled

For ERP suppliers, you must make sure that their ERP vendor IDs are stored as organization IDs in the sap domain rather than in the SystemID field [page 15].

#### Limitations

Use of SOAP web service APIs for supplier data integration only supports outbound synchronization of data imported from the ERP system. It does not support export of data back to the ERP system.

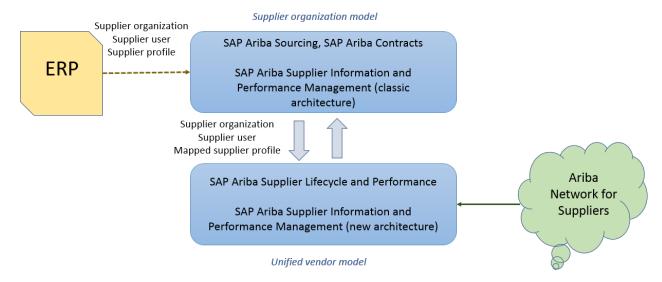
The unified vendor model is a very different from the classic supplier organization data model SAP Ariba solutions use for other supplier data. SOAP web service API integration with the unified vendor model works by passing supplier data through the classic data model as it flows to and from the SAP Ariba Supplier Management solutions vendor database. Therefore, it only supports integration of data that is used in a specific set of fields in the classic supplier data model. That set of fields is a subset of the fields that are available in the unified vendor model. See Supplier organization data synchronization to the unified vendor model [page 14] and Supplier user synchronization to the unified vendor model [page 16] for details on which fields are synchronized when you use this integration method.

SOAP web service API integration for supplier profile data is only available for customers who have migrated from the supplier organization data model and the supplier profile questionnaire to SAP Ariba Supplier Information and Performance Management (new architecture) or SAP Ariba Supplier Lifecycle and Performance, and have mapped an existing supplier profile questionnaire to one or more registration questionnaires in the unified vendor model. See for details on this mapping.

# Data flow for supplier data loaded through SOAP web service APIs into the unified vendor model

If your solution package does not include SAP Ariba Procurement solutions, SOAP web service APIs integrate supplier data directly with SAP Ariba Strategic Sourcing solutions.

The following diagram illustrates the outbound data flow for supplier data synchronization in this scenario:



#### In this flow:

- Your ERP system sends supplier organization, supplier user, and extended profile data to the SAP Ariba Strategic Sourcing solutions supplier organization data model.
- A limited number of supplier organization and supplier user data fields are synchronized to the unified vendor model underlying your SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) solution.
- If your solution previously used the supplier profile questionnaire and you have mapped its questions to registration questionnaires, supplier profile data is synchronized to the corresponding mapped questions in registration questionnaires.

 If you have mapped questions the registration questionnaires to Ariba Network supplier profile fields, when a supplier updates their profile on Ariba Network, those updates are automatically pushed to the registration questionnaires.

# Supplier organization data synchronization to the unified vendor model

SAP Ariba supports synchronization of a limited amount of data from the classic supplier organization model to the new unified vendor model in order to support the use of existing SOAP web service APIs integrations for supplier data.

Outbound (imported) supplier data sent in CSV files via SOAP web service APIs and then synchronized to SAP Ariba Supplier Management solutions that use the unified vendor model can either update existing suppliers or create new suppliers in those SAP Ariba Supplier Management solutions.

If a supplier is private, meaning that it does not have a linked Ariba Network account, you can update the supplier's name and address fields via synchronization. If the supplier is public, the supplier owns maintaining that data in their Ariba Network account, and those updates are passed automatically from Ariba Network to questions mapped to Ariba Network supplier profile fields in SAP Ariba Supplier Management solutions questionnaires. For more information about mapping questions to Ariba Network supplier profile fields, see *Setting up SAP Ariba Supplier Lifecycle and Performance* (for SAP Ariba Supplier Lifecycle and Performance solutions) or *Setting up supplier management (new architecture)* (for SAP Ariba Supplier Information and Performance Management (new architecture) solutions).

Suppliers added to the unified vendor model via synchronization are not flagged as legacy suppliers.

The following supplier fields are synchronized between supplier organizations and the unified vendor model:

Supplier organization field	Unified vendor model field
Organization IDs with a domain of sap; see Organization ID synchronization to ERP vendor IDs in the unified vendor model [page 15] for details.	erpVendorId
Organization IDs with a domain of duns	vendor.vendorInfo.dunsId
ANID	anId.
Name	vendor.vendorInfo.name1
CorporateAddress.PostalAddress.Lines	<pre>vendor.address.line1 and vendor.addressExt.postalAddress.streetName</pre>
CorporateAddress.PostalAddress.City	vendor.address.cityand vendor.addressExt.postalAddress.cityName
CorporateAddress.PostallAddress.State	vendor.address.stateand vendor.addressExt.postalAddress.regionCode

Supplier organization field	Unified vendor model field
CorporateAddress.PostalAddress.PostalCode	vendor.address.postalCode and vendor.addressExt.postalAddress.streetPost alCode
CorporateAddress.PostalAddress.Country.Uni queName	vendor.address.countryCode and vendor.addressExt.postalAddress.countryCod e
CorporatePhone	vendor.address.phone
CorporateFax	vendor.address.fax
Active	vendor.vendorInfo.active
SystemID	S4OrgSystemID, which is only used internally.

#### i Note

Address information is synchronized to both <code>vendor.address.</code> and <code>vendor.addressExt</code> fields. In SAP Ariba Supplier Management solutions that use the unified vendor model, whether and where address information from <code>vendor.address</code> fields displays is determined by the configuration of the supplier request and registration questionnaires. However, address information in <code>vendor.addressExt</code> fields always displays on the <code>ERP Info</code> tab in supplier 360° profiles. Extended address information might also display elsewhere if you use those fields in supplier request and registration questionnaires. Therefore, synchronization updates both classes of address fields.

# Organization ID synchronization to ERP vendor IDs in the unified vendor model

When supplier organizations are synchronized to the unified vendor model, SAP Ariba Supplier Management solutions convert the organization ID with the domain sap into the ERP vendor ID.

ERP vendor ID is a required field for suppliers in the unified vendor model. When you use a SOAP web service API integration to update suppliers in the unified vendor model, data for ERP suppliers **must** include a domain:value pair with the <code>sap</code> domain and the ID assigned by your ERP system as the value. The <code>sap</code> domain is mandatory regardless of the originating ERP system, and must be all lowercase. If you are creating suppliers in the unified vendor model based on existing supplier organizations through an initial synchronization, the value in the domain:value pair in the <code>sap</code> domain becomes the new supplier's ERP vendor ID in the unified vendor model. If you are updating an existing supplier via SOAP web service APIs and ongoing synchronization, the <code>sap</code>:value organization ID must match the ERP vendor ID in the unified vendor model in order for synchronization to succeed.

For suppliers that do not have an organization ID in the sap domain, SAP Ariba Supplier Management solutions assigns an ERP vendor ID that begins with "VDR" during initial synchronization. If you have organizations that you have not yet added to your ERP system, and that therefore have not been assigned an ERP vendor ID by it, as long

as they do not have an organization ID in the sap domain, they will be assigned this automatic ID at initial synchronization.

#### i Note

If you store supplier organization ERP vendor IDs in the systemID field, you must add them as organization IDs in the sap domain before initial synchronization. If you do not do this, when your supplier organizations are first synchronized, the ERP vendor ID field in the unified vendor model will be populated with automatically generated IDs rather than your ERP vendor IDs.

## Supplier user synchronization to the unified vendor model

SAP Ariba supports synchronization of a limited amount of data from supplier users in the classic supplier organization model to supplier contacts new unified vendor model in order to support the use of SOAP web service API integrations for supplier data.

Outbound (imported) supplier user data sent in CSV files via SOAP web service APIs, and then synchronized to SAP Ariba Supplier Management solutions that use the unified vendor model, can either update existing supplier contacts or create new supplier contacts in those SAP Ariba Supplier Management solutions.

The following supplier user fields are synchronized between supplier organizations and the unified vendor model:

Supplier user field	Unified vendor model supplier contact field
FullName	vendor.contacts.firstName, vendor.contacts.middleName, and vendor.contacts.lastName  SAP Ariba Supplier Management solutions identify spaces in the FullName value and use them to divide it into first, last, and middle names. The characters before the first space go in the firstName field, the characters after the last space go in the lastName field, and the characters between the first and last spaces go in the middleName field. For example, if the FullName is Marie Ann Bradford Wright, the firstName is Marie, the lastName is Wright, and the middleName is Ann Bradford. On the other hand, if the FullName is Marie Ann Bradford-Wright, the lastName is Bradford-Wright and the middleName is Ann.
EmailAddress	vendor.contacts.email
Phone	vendor.contacts.telephone
Name	vendor.contacts.title
DefaultCurrency	vendor.contacts.defaultCurrency

Supplier user field	Unified vendor model supplier contact field	
timeZoneId	vendor.contacts.timeZoneID	
active	vendor.contacts.active	

# Synchronization of supplier profile questionnaire data to the supplier registration questionnaire

In sites that have migrated from the supplier profile questionnaire to supplier registrations, SAP Ariba supports synchronization of supplier profile questionnaire data to the supplier registration questionnaire in order to support the use of SOAP web service API integrations for extended supplier profile data.

Since each site has its own customized supplier profile questionnaire, this process it not automatic. You must first:

- Set up and publish the supplier registration project template with at least one external-facing supplier registration questionnaire. See Setting up SAP Ariba Supplier Lifecycle and Performance (for SAP Ariba Supplier Lifecycle and Performance) or Setting up supplier management (new architecture) (for SAP Ariba Supplier Information and Performance Management (new architecture)) for details.
- Create a CSV file that maps content in the supplier profile questionnaire to content in the supplier registration questionnaire and import the mapping file into your site. See *Migrating suppliers to the unified vendor model* for details.

Once you have successfully imported the mapping file, answers from supplier profile questionnaire are synchronized to their mapped supplier registration questionnaire question on an ongoing basis.

#### i Note

Once Setting up the mapping requires simultaneous access to the supplier profile questionnaire and supplier registration questionnaires. The only time both are available simultaneously in the same site is during migration mode. Once SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) is enabled in your site, the supplier profile questionnaire becomes read-only and the **Supplier Knowledge** area is no longer visible. Therefore, if you are a new SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) customer who has not migrated from an existing supplier profile questionnaire, you cannot use SOAP web service APIs for extended supplier profile integration. This integration option is only available in sites that have migrated from an existing, working supplier profile questionnaire to the registration questionnaire.

# **Authentication and Security for SOAP Web Service APIs**

SOAP messages can be sent using the HTTP or HTTPS protocol. HTTPS provides server authentication and an encrypted communication channel. For inbound end points, SAP Ariba always uses HTTPS. For outbound end

points, the administrator on the EAI system can choose to use HTTP or HTTPS, but SAP Ariba strongly recommends that you use HTTPS.

In addition, SAP Ariba SOAP web services support the following mechanisms to provide authentication and security:

- X.509 Web Services Security
  - X.509 Web Services Security, or WS-Security (X.509) XML Signature & Encryption, is an industry-defined specification for SOAP messaging enhancements that use X.509 security certificates and public-key encryption. SAP Ariba Web Services use WS-Security to provide message integrity and client message authentication.
- HTTP Basic Authentication

HTTP basic authentication provides simple authentication using a credential that consists of a user ID and password. The authentication information is sent in the HTTP header as a basic authorization request header field. The field has the following format:

Authorization : Basic userID:password

The *userID* and *password* are separated by a colon and then base64 encoded. These fields are encrypted if HTTPS is used, but are not encrypted if HTTP is used.

The user ID specified for HTTP basic authentication is used exclusively to control access to the end point. It is unrelated to any user IDs configured for the SAP Ariba solution and SAP Ariba recommends that you do not use the same user ID and password as an actual user configured for the SAP Ariba solution.

Although the HTTP basic authentication mechanism provides only authentication (proof of identity) and by itself not provide authorization (granting access to resources based on identity), the information is sent in an HTTP authorization request header field. You could use HTTP basic authentication as part of an authorization scheme to restrict access to different integration tasks by creating a unique end point for each integration task. Only users with the authentication credentials for a given end point could use the end point to access the integration task.

#### i Note

The WS-Security and HTTP basic authentication options do not provide message confidentiality. If you use HTTP instead of HTTPS, your data is sent in clear text, even if you use WS-Security and HTTP basic authentication.

### Workflow for SOAP Web Service APIs

To use SAP Ariba SOAP web dervices, you perform the following high-level steps:

- 1. Plan your configuration by determining:
  - The integration tasks for the web services you want to use and the types (inbound or outbound) of end points needed. For a list of integration tasks and end point types, see SAP Ariba SOAP Web Services Integration Tasks and End Points [page 6].
  - The type of security mechanisms (WS-Security or HTTP Basic Authentication) for your end points. You must configure at least one form of security for a given end point; you can configure both forms of security for a given end point.
  - How many end points you will configure. You can specify only one end point per integration task, but you can use one end point for multiple integration tasks. For example, you can create the end point My

Inbound End Point and use this end point for both the Import Sourcing Project task and the Import Procurement Contract Workspace task.

You can configure only one peer certificate for WS-Security and one set of HTTP authentication credentials for a given inbound end point. If multiple external systems will connect to an inbound end point, all ERP systems connecting to the end point must use the same certificate and/or HTTP credentials. (If ERP systems will use different integration tasks, you can create a different end point for each integration event.)

- 2. Collect access and security information from the ERP systems. For a description of this step, see Collecting Access and Security Information for Web Services [page 20].
- 3. Create the end points using the Integration Manager. For a description of this procedure, see Configuring an End Point for Web Services [page 20].
- 4. Provide security information to the ERP administrator.
  - o If you created an inbound end point using HTTP authentication, provide the user ID and password.
  - o If you created an outbound end point using WS-Security, provide the SAP Ariba certificate.
- 5. Enable the integration tasks and link them to end points using the Integration Manager. For a description of this procedure, see Enabling a SOAP Integration Task [page 21].
- 6. Click the **View WSDL** link from the **Edit** <code>task\_name</code> screen in the Integration Configuration of the Integration Manager to generate the WSDL file for the service. Transfer the WSDL file to the ERP system and build the appropriate SOAP requests and process replies.

#### i Note

When you are using the SAP Ariba test environment, the XML namespace (xmlns) in the WSDL will differ from the XML namespace used when connecting to the SAP Ariba production environment. When migrating from the SAP Ariba test environment to the SAP Ariba production environment, you must re-generate a new WSDL from the production environment.

For additional information about SOAP message elements and examples, see Web Service Elements and Examples [page 27].

- 7. If you want to automatically export contract workspace IDs when workspaces are created or published, you must have you must have an SAP Ariba Customer Support Administrator enable a system parameter. For more information, see Enabling External Exports for Workspace IDs [page 22].
- 8. If you want to allow users to export Contract Terms Excel file documents to external systems from the interactive user interface, you must have an SAP Ariba Customer Support Administrator enable a system parameter. For more information, see Enabling External Exports for Contract Terms [page 23].
- 9. If you want to allow automatically export RFX awards to external systems, you must have an SAP Ariba Customer Support Administrator enable a system parameter. For more information, see Enabling Export RFX Awards Tasks [page 24].
- 10. (Optional) Configure users to receive notifications if the Export Workspaceld or Export RFX Awards services fail. For more information, see Configuring Email Notifications for Outbound Web Services [page 24].

# **Collecting Access and Security Information for Web Services**

Before configuring end points, you must collect the access and security information about the ERP system.

#### **Procedure**

Collect the following information:

If you are configuring an inbound end point with WS-Security, get a copy of the ERP system's certificate. The
certificate must be a signed X.509 certificate encoded using Privacy Enhanced Mail (PEM) base64-encoding
and signed by a Certificate Authority (CA) trusted by SAP Ariba. To get information about the CAs currently
trusted by SAP Ariba or to register a CA to be trusted by SAP Ariba, contact SAP Ariba Support.

The first line of the certificate must be the following text:

```
----BEGIN CERTIFICATE----
```

The last line of the certificate must be the following text:

```
----END CERTIFICATE----
```

- If you are configuring an outbound end point, get the URL for the ERP system.
- If you are configuring an outbound end point with HTTP basic authentication, get the user name and password required to access the ERP system.

## **Configuring an End Point for SOAP Web Services**

#### **Prerequisites**

You must be a member of the Customer Administrator or Integration Admin group, or a group with the Administrator or Integration Admin role.

#### **Procedure**

- 1. On the Ariba Administrator dashboard, click Manage Administration .
- 2. Click the expansion arrow for Integration Manager.
- 3. Select End Point Configuration.
- 4. Click Create New.

An End Point Configuration - Create End Point page opens.

- 5. In the **Name** field, enter a name for the end point.
- 6. Select the type (**Inbound** or **Outbound**) of end point according to the table in SAP Ariba SOAP Web Services Integration Tasks and End Points [page 6].

- 7. If this is an inbound end point and you are using WS-Security, paste the contents of the certificate file from the ERP system in the **Certificate File** field under **Web Services Security**.
- 8. If this is an outbound end point, the system displays a **URL** field. Enter the URL for the endpoint on the ERP system.
- 9. If this is an outbound end point, the **Web Services Security** area displays the contents of the SAP Ariba certificate. To enable WS-Security, select **Yes** in the **Sign with Ariba Private Key** field. For example:
  - Copy the certificate, beginning with the line ----BEGIN CERTIFICATE---- and ending with the line ---END CERTIFICATE----. Provide this certificate to the administrator on the ERP system.
- 10. To use HTTP Basic Authentication, navigate to the **HTTP Authentication** area. Enter the user ID in the **Login** field and the password in the **Password** fields. If this is an inbound end point, provide this information to the administrator on the ERP system. If this is an outbound end point, this information must match the data configured on the ERP system.
- 11. Click Save.

## **Enabling a SOAP Integration Task**

When you enable an SAP Ariba SOAP web services integration task, you also link the task to an end point.

#### **Prerequisites**

You must be a member of the Customer Administrator or Integration Admin group, or a group with the Administrator or Integration Admin role.

#### **Procedure**

- 1. On the Ariba Administrator dashboard, click Manage Administration .
- 2. Click the expansion arrow for **Integration Manager**.
- 3. Choose Integration Configuration.
- 4. Find the task you want to enable. Select List All or enter search criteria and click Search.
- 5. Click Actions Edit for the task.

An Edit data import/export task pane opens.

- 6. For the **Status** field, select **Enabled**.
- 7. Use the pull-down menu for the **End point** field to select an end point.
- 8. If you are configuring a service that uses an outbound end point, specify the URL for the corresponding endpoint on the ERP system.
- 9. Click Save.

## **Generating a WSDL File**

#### **Prerequisites**

You must be a member of the Customer Administrator or Integration Admin group, or a group with the Administrator or Integration Admin role.

#### **Procedure**

- 1. On the Ariba Administrator dashboard, click Manage Administration .
- 2. Click the expansion arrow for Integration Manager.
- 3. Select Integration Configuration.
- 4. Find the task for which you want to generate the WSDL file. Select **List All** or enter the search criteria and click **Search**.
- 5. Click Actions Edit for the task.
- 6. Click the View WSDL link.

#### **Results**

A new window with the WSDL contents opens. Use the file menu for your browser to save the contents to a file. The descriptions for each field in the WSDL are provided in the WSDL itself. The WSDL description also includes the URL for the end point.

## **Enabling External Exports for Workspace IDs**

#### Context

In addition to configuring an endpoint for the Export WorkspaceId web service, the following site configuration options must be set.

#### **Procedure**

Have your Designated Support Contact log a service request to enable site configuration options as follows:

- To enable the Export WorkspaceId service to send a workspace ID when a workspace is created, the following application parameter must be set to Yes:
  - Application.ACM.EnableWSWorkspaceIdOnCreatePush
- To enable the Export WorkspaceId service to send a workspace ID when workspace is published, the following application parameter must be set to Yes:
  - Application.ACM.EnableWSWorkspaceIdOnPublishPush

## **Enabling External Exports for Contract Terms**

#### Context

If SAP Ariba Contracts is integrated with one of the SAP Ariba Procurement solutions, users can create Contract Terms Excel file documents, which are visible in the Documents area of contract workspaces. The Export Contract Terms web service enables users to export a Contract Terms Excel file document to an ERP or other external system by choosing the Export External System command in the Actions pull-down menu for the Contract Terms document.

In addition to configuring an endpoint for the Export Contract Terms web service, the following site configuration option must be set.

#### **Procedure**

Have your Designated Support Contact log a service request to enable the following site configuration option:

Application.ACM.EnableWSContractTermsPush

# **Enabling External Document Uploads for the User Interface**

#### Context

On an EAI system, the administrator can build a web page with links that generate and send Import Document SOAP messages to the SAP Ariba system. SAP Ariba users can navigate to this webpage from the **Documents** tab in a project by clicking Actions Upload External Document Document Menton Actions Upload External Document Actions Upload Parameters, Project ID, user ID, and password adapter to the URL. The EAI system can use this information when invoking the Import Document task to upload the selected documents to the SAP Ariba system.

#### **Procedure**

Have your Designated Support Contact log a service request to set the following site configuration option to the URL of the web page on the EAI system:

Application.ACM.ExternalDocumentBrowserURL

## **Enabling Export RFX Awards Tasks**

#### Context

In addition to configuring an endpoint for the Export RFX Award web service, the following site configuration option must be set.

#### **Procedure**

Have your Designated Support Contact log a service request to enable the following site configuration option:

Application.AQS.RFX.EnableWSAwardPush

# **Configuring Email Notifications for Outbound Web Services**

#### Context

SAP Ariba can send email notifications when the following outbound web services fail:

- Export Workspaceld
- Export RFX Awards

#### **Procedure**

To configure a user to receive email notifications when these services fail, add the users to the following system (global) group:

#### **Integration Notifications**

### **About Web Service Email Notifications**

For the Export Workspaceld and Export RFX Awards services, any circumstance in which an outbound message to the SOAP peer cannot be sent or the message is sent but the SOAP peer does not send back a response with status set to 0 is a failure. For example, failures can be caused by configuration errors, network connectivity problems, or a SOAP peer that is not sending the correct response.

The format of the message sent for web service failures is as follows:

```
Web Service Name: serviceName
Target ID: id
Target Action: action
Notice Type: noticeType
The above Outbound Web Service has failed. This email notification was sent to all members of the "Integration Notifications" group.
If Notice Type is "Final" there will be no further attempts to re-send the SOAP message for this Web Service call. Please take any necessary steps to ensure your endpoint is operational. If necessary, notify appropriate users of any Final notices and take manual steps to complete the operation.
This email originated from the SAP Ariba system used by my_org and was originally sent to: someone@example.com
```

#### Where:

serviceName is the name of the web service, such as WorkspaceIdExportTask or RFXAwardExportTask.

id is the workspace ID, such as CW1234.

action is the action that triggered the web service (if applicable; for workspaces, possible values are Published or Created).

noticeType is the type of notice (Warning or Final).

## **Export Workspaceld Email Notifications**

The Export Workspaceld web service attempts to send a request at the time a workspace is created or published. If the Export Workspaceld web service fails for a given request (the web service does not receive a response with Status = 0 from the SOAP peer), SAP Ariba uses the scheduled task WSWorkspaceldExportTask to retry the SOAP request. The WSWorkspaceldExportTask task operates as follows:

- It is scheduled to run once an hour. There might be slight variations in the actual interval between executions depending on system load.
- If WSWorkspaceIdExportTask tries to send a request for a given workspace ID three times and still fails, WSWorkspaceIdExportTask sends a warning email notification (Notice Type: Warning) to members of the Integration Notifications group.
- After three hourly retries, WSWorkspaceIdExportTask tries to re-send the request once every 24 hours for the next three days.
- If the web service has not succeeded after three daily retries, WSWorkspaceIdExportTask sends a final email notification (Notice Type: Final) and stops sending the request.

## **Export RFX Awards Email Notifications**

The Export RFX Awards web service uses the scheduled task RFXAwardExportTask to export RFX awards by sending an RFXAwardExportRequest. The RFXAwardExportTask task operates as follows:

- It is scheduled to run once a day. There might be slight variations in the actual interval between executions depending on system load.
- If RFXAwardExportTask initially fails for a given day (the web service does not receive a response with Status = 0 from the SOAP peer), RFXAwardExportTask sends a warning email notification (Notice Type: Warning) to users in the Integration Notifications group.
- If RFXAwardExportTask fails after three additional retries, RFXAwardExportTask sends a final email notification (Notice Type: Final) and stops sending the request.

## **Disabling Integration Tasks**

#### **Procedure**

- 1. On the dashboard, select Manage Administration 1.
- 2. Click the expansion arrow for **Integration Manager**.
- 3. Click Integration Configuration.
- 4. Under Search Filters, search for the enabled tasks.
  - All the enabled tasks are displayed.
- 5. For the selected task, click **Actions** > **Disable**.

# **Web Service Elements and Examples**

#### In this section:

Common SOAP Web Service Header Elements [page 27]

Common SOAP Web Service Body Elements [page 27]

Custom Body Elements for SOAP Web Services [page 30]

SOAP Web Services for Contract Projects [page 36]

SOAP Web Services for Sourcing Events and Projects [page 67]

SOAP Web Service for Knowledge Projects [page 94]

SOAP Web Services for Documents [page 97]

SOAP Web Services for Managing Users, Organizations, and Suppliers [page 101]

SOAP Web Service Status and Error Message Values [page 115]

Web Service Example: Creating a Procurement Contract Workspace [page 117]

Web Service Examples: Creating Sourcing Events [page 121]

Web Service Example: Creating a Project with Custom Fields [page 127]

## **Common SOAP Web Service Header Elements**

The following elements are common to SOAP headers for all web service events.

Element	Required	Description
variant	No	String. Not used; do not specify a value for this element.
partition	No	String. Not used; do not specify a value for this element.

## **Common SOAP Web Service Body Elements**

The following body elements are used by multiple web service events:

- Country, Currency, BaseLanguage, and LocaleID Elements [page 28]
- ContractId and WorkspaceId Elements for Contract Workspaces [page 28]
- OnBehalfUserId and OnBehalfUserPasswordAdapter Elements [page 28]
- XSD DateTime Elements [page 29]

## Country, Currency, BaseLanguage, and LocaleID Elements

Use the following export data tasks to determine valid input values for Country, Currency, BaseLanguage, and LocaleID elements for web services:

- Export Country (CSV)
- Export Currency (CSV)
- Export Language (CSV)
- Export Locale (CSV)

# **ContractId and WorkspaceId Elements for Contract Workspaces**

All contract workspaces have a workspace ID and a contract ID. The workspace ID is generated by SAP Ariba Spend Management and usually has the form CWnnnn, where nnnn is a number. If you do not specify a contract ID when creating a workspace (you use a web service to create a workspace and do not include a ContractId element or you use interactive user interface to create a workspace), SAP Ariba uses the workspace ID value as the contract ID value.

When viewing a contract workspace with the interactive user interface, only the contract ID is visible; the workspace ID is not visible. If you create a contract workspace using a web service and specified a contract ID, the contract ID and the workspace ID will not match, but you can determine the workspace ID by examining the <code>WorkspaceId</code> element in the response. SAP Ariba recommends that you retain the value of the workspace ID; if you use a web service to create a contract workspace that is a subproject or subagreement of another workspace, you must specify the workspace ID of the predecessor project or master agreement.

## OnBehalfUserId and OnBehalfUserPasswordAdapter Elements

The web services perform actions on behalf of the user specified by the OnBehalfUserId element (not the user in the HTTP authentication header).

Element	Required	Type and Description
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter (SourcingSupplierUser for suppliers or PasswordAdapter1 for all other users).

### **XSD DateTime Elements**

The format for XSD DateTime web service elements is as follows:

YYYY-MM-DDThh:mm:ss

#### Where:

- YYYY specifies the year
- MM specifies the month
- DD specifies the day
- T is a literal value that specifies the start of the time section
- hh specifies the hour
- mm specifies the minutes
- ss specifies the seconds

#### For example:

```
2011-05-09T12:00:00
```

The XSD DateTime format also supports the following formats for time offsets relative to UTC (Coordinated Universal Time):

```
YYYY-MM-DDThh:mm:ss+hh:mm
YYYY-MM-DDThh:mm:ss-hh:mm
```

### **DateTime Elements Used to Create and Update Projects**

The following DateTime elements are used when creating or updating SAP Ariba Contracts projects:

- AgreementDate
- EffectiveDate
- ExpirationDate

In addition, the following DateTime element is used when creating or updating SAP Ariba Sourcing full projects:

• EffectiveDate

These project dates (AgreementDate, EffectiveDate, ExpirationDate, and EffectiveDate) also support the following XSD DateTime formats for time offsets relative to UTC (Coordinated Universal Time):

```
YYYY-MM-DD Thh: mm:ss+hh:mm
YYYY-MM-DD Thh: mm:ss-hh:mm
```

If you specify an AgreementDate, EffectiveDate, ExpirationDate, or EffectiveDate with a UTC offset, SAP Ariba converts the DateTime value in the element to a calendar date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).

For example, an AgreementDate element has the following value:

```
2014-05-01T00:00:00+01:00
```

The Agreement Date will be 04/30/2014 (the previous calendar day), because midnight (00:00:00) on 05/01/2014 in the UTC+01:00 time zone is 04/30/2014 in the UTC-08:00 time zone.

## **Custom Body Elements for SOAP Web Services**

The WSDL files for tasks that can create or update projects (such the Import Procurement Contract Workspace task) contain a custom element that contains placeholders for custom project fields of different namespaces, as shown in the following WSDL excerpt:

```
<urn:custom>
  <!--Zero or more repetitions:-->
  <urn:CustomBigDecimal name="?">?</urn:CustomBigDecimal>
  <!--Zero or more repetitions:-->
  <urn:CustomBoolean name="?">?</urn:CustomBoolean>
  <!--Zero or more repetitions:-->
  <urn:CustomDate name="?">?</urn:CustomDate>
  <!--Zero or more repetitions:-->
  <urn:CustomInteger name="?">?</urn:CustomInteger>
  <!--Zero or more repetitions:-->
  <urn:CustomMoney name="?">
     <!--You may enter the following 5 items in any order-->
     <!--Optional:-->
     <urn:Amount>?</urn:Amount>
      <!--Optional:-->
     <urn:AmountInReportingCurrency>?</urn:AmountInReportingCurrency>
     <!--Optional:-->
     <urn:ApproxAmountInBaseCurrency>?</urn:ApproxAmountInBaseCurrency>
     <!--Optional:-->
     <urn:ConversionDate>?</urn:ConversionDate>
     <!--Optional:-->
     <urn:Currency>
        <!--Optional:-->
       <urn:UniqueName>?</urn:UniqueName>
     </urn:Currency>
  </urn:CustomMoney>
  <!--Zero or more repetitions:-->
  <urn:CustomString name="?">?</urn:CustomString>
  <!--Zero or more repetitions:-->
  <urn:CustomUser name="?">
     <!--You may enter the following 2 items in any order-->
     <!--Optional:-->
     <urn:PasswordAdapter>?</urn:PasswordAdapter>
     <urn:UniqueName>?</urn:UniqueName>
  </urn:CustomUser>
</urn:custom>
```

# **Omitting Custom Web Service Elements for Projects without Custom Fields**

If you are creating or updating a project and your configuration does not contain any custom fields, you must exclude the custom element in the first level immediately within the ProjectHeaderFields element.

If the organizations that can be selected for the Affected Parties field do not contain any custom fields, you must not include the child custom element in the AffectedParties element. Alternatively, you can omit the entire AffectedParties element.

# **Using Custom Web Service Elements for Projects with Custom Fields**

If you are creating or updating a project using a web service, you can specify the value for a custom project field.

### **Prerequisites for Using Custom Fields with Web Services**

You can specify the value for a custom project field if the following tasks have been completed. Many of the tasks are completed for you by your SAP Ariba support team.

- The custom field is added to the appropriate classes with the **External Integration Field** option selected.
- The web service is enabled as described in Enabling an Integration Task [page 21].
- The new field is migrated to the integration web service (the change is reviewed and published) using the
   Integration Manager Data Definition operation as described in Managing Integration Migration [page 144].

After these tasks are completed, you can generate a new WSDL file for the appropriate web service.

The WSDL file includes a documentation element within the element of the appropriate type. The documentation element specifies the internal field name, which is formed by removing all characters other than A-Z, a-z, 0-9, and underscore(\_). For example, the system generated the following element in the WSDL for the custom Needs EU Approval boolean field with the internal field name NeedsEUApproval:

The SOAP request specifies the namespace (CustomBoolean), internal field name (NeedsEUApproval), and value (true) in the custom element:

For an example of a SOAP message body used to create a project with custom fields, see Web Service Example: Creating a Project with Custom Fields [page 127].

### **Specifying Values for Custom Fields with Enumerated Types**

Enumerated types are typically used to enable users to select custom values from menus or choosers. The values for enumerated types are loaded from an enumeration file by your SAP Ariba support team. If you are creating or updating a project using a web service, you can specify the value for a custom enumeration field after the enumerated types are loaded and the prerequisites in Prerequisites for Using Custom Fields with Web Services [page 31] have been completed.

Custom enumeration fields can contain either a single value or multiple values. The data definition and SOAP message elements are different depending on the field type (single value or multiple select).

- Single-value enumeration fields are specified using CustomString elements.
- Multiple-value enumeration fields are specified using CustomString Vector elements.

An object can contain both a single-value field and a multiple-select field for the same enumerated type.

An enumeration file includes a <code>Display Value</code> column and a <code>Value</code> column. The value in the <code>Value</code> column is typically a numerical index value. When specifying the values for a custom field with an enumerated type, you must use the value from the <code>Value</code> column of the enumeration file.

#### i Note

Always specify the value from the Value column in the SOAP message. Do not specify the value from the Display Value column. If you do not know the contents of the Value column for your enumeration, you can get a copy of your enumeration file. Have your Designated Support Contact log a service request and an SAP Ariba Customer Support representative will follow up to complete the request.

For example, the enumeration file contains the following entries:

Table 1: Enumeration File

Enumeration	Display Value	Value
cus_Color	Red	101
cus_Color	Blue	102

To specify Blue in an Import task for the single-value enumeration field My Color that uses the enumerated type cus Color, the SOAP request includes the following custom and CustomString elements:

To specify Blue and Red in an Import task for a multiple-value enumeration field Multi Colors that uses the enumerated type cus\_Color, the SOAP request includes the following custom, CustomString\_Vector, item, and CustomString elements:

### **Using Custom Elements for Flex Master Data Fields**

A Flex Master Data (FMD) data type is a custom data structure defined for your installation by your SAP Ariba support team. Your SAP Ariba support team also adds fields to projects with the FMD type and loads data records for the FMD type. Each FMD data record has a unique name and other data fields.

For example, you could have a FMD type named AirlineFMD with the data fields Name and Phone Number. Each record would also have a text field for the unique name or ID field that identifies the record. Your internal contract workspaces could have the custom field Preferred Airline, where the data type for this field is AirlineFMD.

If you are creating or updating a project using a web service, you can specify the value for a FMD field if the flex master data (FMD) template is published, data for the FMD field is loaded, and the prerequisites in Prerequisites for Using Custom Fields with Web Services [page 31] have been completed.

The data definition and SOAP message elements are different depending on the FMD field type (single value or multiple select). An object can contain both a single-value field and a multiple-select field for the same FMD data type.

### **Single-Value FMD Fields Example**

If a field can contain only one FMD data record, the WSDL file includes definitions for the custom FMD field and the FMD data type. In the following example, the field name is Preferred Airline and the FMD data type is Airline FMD:

```
<xsd:element maxOccurs="1" minOccurs="0" name="custom">
 <xsd:element maxOccurs="unbounded" minOccurs="0" name="CustomAirlineFMD"</pre>
nillable="true">
  <xsd:complexType>
   <xsd:annotation>
   <xsd:documentation>"PreferredAirline" is the name of a flex field that can be
imported or
    exported.</xsd:documentation>
   </xsd:annotation>
   <xsd:complexContent>
   <xsd:extension base="typens:AirlineFMD Reference">
    <xsd:attribute name="name" type="xsd:string" />
    </xsd:extension>
 </xsd:complexContent>
  </xsd:complexType>
 </xsd:element>
</xsd:element>
```

Note that the namespace for the custom field is <code>CustomAirlineFMD</code>. The <code>CustomAirlineFMD</code> definition contains a child element of the <code>AirlineFMD\_Reference</code> namespace. The WSDL also contains a definition for the <code>AirlineFMD</code> Reference namespace with a <code>string</code> element to specify the unique name of the FMD data record:

```
<xsd:complexType name="AirlineFMD_Reference">
```

The SOAP request specifies the namespace (CustomAirlineFMD), internal field name (PreferredAirline), and the unique name (ID field) for the record you want to specify. In the following example, the unique name is AlohaAir.

```
<urn:custom>
  <urn:CustomAirlineFMD name="PreferredAirline">
        <urn:UniqueName>AlohaAir</urn:UniqueName>
        </urn:CustomAirlineFMD>
  </urn:custom>
```

Note that the only valid child element for the CustomAirlineFMD element is UniqueName. You cannot specify or set data values in the FMD fields.

### Multiple-Select FMD Fields Example

In the following example, the field name is  ${\tt AllowedAirlines}$  and the FMD data type is  ${\tt Airline}$  FMD. The WSDL file includes the following entries:

```
<xsd:element maxOccurs="1" minOccurs="0" name="custom">
  <xsd:element maxOccurs="unbounded" minOccurs="0" name="CustomAirlineFMD Vector"</pre>
nillable="true">
   <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation>"AllowedAirlines" is the name of a flex field that can
be imported or
        exported.</xsd:documentation>
        </xsd:annotation>
      <xsd:complexContent>
        <xsd:extension base="typens:AirlineFMD_Reference_Vector">
          <xsd:attribute name="name" type="xsd:string"/>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
  </xsd:element>
</xsd:element>
```

The namespace for the custom field type is <code>CustomAirlineFMD\_Vector</code>. The <code>CustomAirlineFMD\_Vector</code> definition contains a child element with the namespace <code>AirlineFMD\_Reference\_Vector</code>. The WSDL also contains a definition for <code>AirlineFMD\_Reference\_Vector</code> with a sequence of <code>string</code> elements to specify the unique name of each FMD data record:

```
<xsd:complexType name="AirlineFMD_Reference_Vector">
```

A SOAP request to set the field Allowed Airlines includes:

- A custom element with an AllowedAirlines child element of the namespace AirlineFMD\_Reference\_Vector.
- The AllowedAirlines element contains one or more item child elements, and each item element specifies the unique name (ID field) for the FMD record.

For example:

### Multiple-Select and Single-Value FMD Example

The following example shows a request with both an FMD multiple-select field and an FMD single-value field. In this example:

- The FMD data name is Airline FMD.
- Internal contract workspaces can have the following custom fields:
- Preferred Airline, which can contain a single FMD data record (CustomAirlineFMD namespace).

  The value of Preferred Airline is set to the unique name AlohaAir.
- Allowed Airlines, which can contain multiple FMD data records (CustomAirlineFMD\_Vector namespace).

The value of Allowed Airlines is set to the unique names IslandAir and MahaloAir.

```
</urn:Headers>
 </soapenv:Header>
 <soapenv:Body>
    <urn:InternalContractWorkspaceImportRequest partition="?" variant="?">
       <urn:WSInternalContractWorkspaceInputBean Item>
          <urn:item>
             <urn:Action>Create</urn:Action>
             <urn:OnBehalfUserId>molson</urn:OnBehalfUserId>
             <urn:OnBehalfUserPasswordAdapter></urn:OnBehalfUserPasswordAdapter>
             <urn:ParentAgreementId></urn:ParentAgreementId>
             <urn:ParentWorkspaceId></urn:ParentWorkspaceId>
             <urn:ProjectHeaderFields>
                <urn:AgreementDate>2012-01-01T00:00:00</urn:AgreementDate>
                <urn:ContractId></urn:ContractId>
                <urn:Description>
                   <urn:DefaultStringTranslation>Example CW
urn:DefaultStringTranslation>
                </urn:Description>
                <urn:EffectiveDate>2012-01-01T00:00:00</urn:EffectiveDate>
                <urn:ExpirationDate>2014-01-01T00:00:00</urn:ExpirationDate>
                <urn:ExpirationTermType>Fixed</urn:ExpirationTermType>
                <urn:HierarchicalType>StandAlone</urn:HierarchicalType>
                <urn:Title>
                   <urn:DefaultStringTranslation>SOAP Internal CW
urn:DefaultStringTranslation>
                </urn:Title>
                <urn:cust.om>
                   <urn:CustomAirlineFMD name="PreferredAirline">
                      <urn:UniqueName>AlohaAir</urn:UniqueName>
                   </urn:CustomAirlineFMD>
                   <urn:CustomAirlineFMD Vector name="AllowedAirlines">
                      <urn:item>
                         <urn:UniqueName>IslandAir</urn:UniqueName>
                      </urn:item>
                      <urn:item>
                         <urn:UniqueName>MahaloAir</urn:UniqueName>
                      </urn:item>
                   </urn:CustomAirlineFMD Vector>
                </urn:custom>
             </urn:ProjectHeaderFields>
             <urn:TemplateId>CW2272</urn:TemplateId>
             <urn:WorkspaceId></urn:WorkspaceId>
          </urn:item>
       </urn:WSInternalContractWorkspaceInputBean Item>
    </urn:InternalContractWorkspaceImportRequest>
 </soapenv:Body>
</soapenv:Envelope>
```

## **SOAP Web Services for Contract Projects**

A contract project can be either a contract request or a contract workspace. You can use the following web services to manage contract projects.

- Download Contract Header Fields [page 37]
- Download Contract Terms [page 40]
- Export Contract Terms [page 41]
- Export Workspaceld [page 42]
- Import CLID using XML [page 44]
- Import Contract Line Items Document [page 48]

- Import Internal Contract Workspace [page 50]
- Import Procurement Contract Request and Import Procurement Contract Workspace [page 56]
- Import Sales Contract Request and Import Sales Contract Workspace [page 61]

### **Download Contract Header Fields**

Use the Download Contract Header Fields web service to download header field values for one or more contract workspaces. The Download Contract Header Fields web service receives ContractHeaderExportRequest messages and responds with ContractHeaderExportReply messages.

A ContractHeaderExportRequest message must specify the class (type) of contract workspace for which header fields will be exported. In addition, the request can specify the following filters to restrict the workspaces for which header fields will be exported:

- ContractIds (a comma-separated list)
- ContractStatus
- FromDate and ToDate (a date range to filter contract workspaces according to the last updated date)
- WorkspaceIds (a comma-separated list)

Each ContractHeaderExportReply message contains a ZIP file that contains the file ContractHeaders.csv with contract header fields. The ZIP file is base64 encoded. The format of the ContractHeaders.csv file is described in Contract Data File Formats [page 130].

You can use the Export Workspaceld web service with the Download Contract Header Fields web services to pull contract header field values as contract workspaces are created or published. For example:

- 1. Use the Export Workspaceld to automatically send a contract workspace ID to a SOAP peer when a contract is created or published in SAP Ariba Contracts.
- 2. The SOAP peer sends a Download Contract Header Fields request with the workspace ID received in the Export Workspaceld request to get the contract header field values.

Alternatively, you can periodically send Download Contract Header Fields with a date range to get contract header field values of contract workspaces that have been modified during the specified date range.

## ContractHeaderExportRequest Elements

#### WSContractHeaderExportInputBean

The WSContractHeaderExportInputBean contains optional elements that can be used to filter the contract workspaces. If you specify multiple filter elements, the web service selects the workspaces that match all the specified filter elements (the filter elements are logically joined with AND operators).

Element	Required	Type and Description
ClassName	Yes	String. Specifies the type of workspace headers to be exported.
		Valid values:
		<ul> <li>ariba.collaborate.contracts.ContractWorkspace (procurement contract workspaces)</li> <li>ariba.collaborate.contracts.ContractRequest (procurement contract requests)</li> <li>ariba.collaborate.contracts.SalesContractWorkspace (sales contract workspaces)</li> <li>ariba.collaborate.contracts.SalesContractRequest (sales contract requests)</li> <li>ariba.collaborate.contracts.InternalContractWorkspace (internal contract workspaces)</li> </ul>
ContractIds	No	String. List of contract IDs for which the headers will be exported, comma separated. For example:  CW2005, CW2006
		For more information about contract IDs and workspace IDs, see Contractld and Workspaceld Elements for Contract Workspaces [page 28].  If omitted, the web service exports headers for all contract workspaces with any contract ID and that meet criteria specified in the other elements.
ContractStatus	No	String. Specifies the status of the workspaces that will be exported. This element is ignored if no date range is specified.  Valid values:  NotCreated  Draft  Publishing  Pending  Published  OnHold  Expired  Closed  If omitted, the web service exports headers for all contract workspaces with any status value and that meet criteria specified in the other elements.

Element	Required	Type and Description
FromDate	No	XSD DateTime. Start date for a date range. By default, the web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports headers for all workspaces that were last updated after the start of the FromDate and before the start of the ToDate. Items updated after the start of the ToDate are excluded.  You can include the hours, minutes, and seconds values for the FromDate
		and ToDate elements in the date range by having SAP Ariba set the site configuration option
		Application.Messaging.Channels.WS.IncludeTimePortionToParseDate to Yes.For more information, see Site ConfigurationOptions for Integration Services [page 150].
		If a workspace has never been updated, the creation date is considered the last updated date.
		If you include a FromDate element, you must also include a ToDate element.
ToDate	No	XSD DateTime. XSD DateTime. End date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports headers for all workspaces that were last updated after the start of the FromDate and before the start of the ToDate. Items updated after the start of the ToDate are excluded.
		If you include a ToDate element, you must also include a FromDate element.
WorkspaceIds	No	String. List of workspace IDs for which the headers will be exported, comma separated. For example:
		CW2005, CW2006
		For more information about contract IDs and workspace IDs, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].
		If omitted, the web service exports headers for all contract workspaces with any workspace ID and that meet criteria specified in the other elements.

# **ContractHeaderExportReply Elements**

# WSContract Header Export Output Bean

Element	Type and Description	
ErrorMessage	String. Message (error or confirmation) returned by the web service.	

Element	Type and Description	
HeaderExportFile	XSD base64Binary (string with base64-encoded data). Contains a ZIP file with a Microsoft Excel file. The Excel file contains rows of header fields, one row per workspace.	
MimeType	String. MIME encoding type used for the header export document.	
Status	Integer. Return status. 0 indicates success.	

### **Download Contract Terms**

Use the Download Contract Terms web service to download Contract Terms Excel file documents. Contract Terms Excel file documents are supported in environments where SAP Ariba Contracts is integrated with one of the SAP Ariba Procurement solutions.

This feature can also be used to download a document with the **Use As** option set to **Contract Content** in a contract workspace, such as a pricing terms document or Contract Line Items Document (CLID) in a contract workspace that was created from a sourcing project.

This web service allows the content to be downloaded in one of two formats:

- Standard CLID Excel Export Format
- A zip file containing the following CSV files:
  - Contract Header.csv
  - Contract Item Information.csv
  - Header Attributes.csv
  - Item Attributes.csv

The Download Contract Terms web service receives ContractTermsDownloadRequest messages and responds with ContractTermsDownloadReply messages.

By default, each ContractTermsDownloadReply message contains a base64-encoded Contract Terms file in Excel format. To receive the Contract Terms file as a base64-encoded ZIP file with the Contract Terms file in CSV format, send the ContractTermsDownloadRequest with a CSVZipOutput element set to false.

## **ContractTermsDownloadRequest Elements**

### WSContractWorkspaceInputBean

Element	Required	Type and Description
CSVZipOutput	No	Boolean. Specifies the format for the output. Valid values:
		<ul> <li>true: base64-encoded ZIP file containing Contract Terms CSV files</li> <li>false: base64-encoded Contract Terms file in Excel format         If this element is omitted, the output is a base64-encoded Contract     </li> <li>Terms file in Excel format.</li> </ul>

Element	Required	Type and Description
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.  If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
WorkspaceId	Yes	String. Specifies the workspace ID of the project (workspace) that contains the Contract Terms to be downloaded.

## **ContractTermsDownloadReply Elements**

#### WSContractTermsDownloadOutputBean

Element	Type and Description	
ErrorMessage	String. Message (error or confirmation) returned by the web service.	
Status	Integer. Return status. 0 indicates success.	
TermsFile	XSD base64Binary (string with base64-encoded data). Contents of the Contract Terms document.	

## **Export Contract Terms**

Use the Export Contract Terms web service to export Contract Terms Excel file documents. Contract Terms Excel file documents such as pricing terms documents or Contract Line Items Document (CLID) are supported in environments where SAP Ariba Contracts is integrated with one of the SAP Ariba Procurement solutions.

The Export Contract Terms web service sends <code>WSContractTermsExportRequest</code> messages and receives <code>WSContractTermsExportReply</code> messages.

The Export Contract Terms web service uses an outbound integration end point. Before users can export contract terms, the parameter Application. ACM. EnableWSContractTermsPush must be enabled as described in Enabling External Exports for Contract Terms [page 23].

When the Export Contract Terms web service is configured, users can export Contract Terms Excel file documents by navigating to the Contract Terms Excel file document and choosing **Export** External System .

SAP Ariba Contracts then initiates an exchange by sending a WSContractTermsExportRequest message to the URL configured for the outbound endpoint. The request includes a Contract Terms document file, base64 encoded.

# **WSContractTermsExportRequest Elements**

#### WSContractTermsExportOutputBean

Element	Type and Description	
PasswordAdapter	String. Specifies the password adapter used to authenticate the user in the User element.	
ProjectInternalId	String. Specifies the system ID of the project (workspace) ID that contains the Contract Terms document being exported.	
TermsFile	XSD base64Binary (string with base64-encoded data) Contents of the Contract Term document	
String. Specifies the user ID of the user who requested the export operation.		

## WSContract Terms Export Reply Elements

#### WSContractTermsExportInputBean

Element	Required	Type and Description
Message	Yes	String. Message (error or confirmation) returned by the client. Use Success to indicate that there were no errors.
Status	No	Integer. Return status. Return 0 to indicate that there were no errors.

## **Export Workspaceld**

Use the Export Workspaceld web service to automatically export contract workspace IDs when a contract workspace is created or published (including administrative amendments that are completed). The actions (workspace creation, publication, or either) that cause the Export Workspaceld web service to export IDs is determined by application parameters set by your SAP Ariba Customer Support representative. For more information, see Enabling External Exports for Workspace IDs [page 22].

The Export WorkspaceId web service sends WorkspaceIdExportRequest messages and receives WorkspaceIdExportReply messages.

## WorkspaceIdExportRequest Elements

A WorkspaceIdExportRequest contains a  $WSWorkspaceIdExportOutputBean\_Item$ , which contains a sequence of an item of the type WSWorkspaceIdExportOutputBean.

# WSWork space Id Export Output Bean

Element	Type and Description		
ContractId	String. Specifies the workspace's contract ID.		
	For more information about contract IDs and workspace IDs, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].		
PasswordAdapter	String. Specifies the password adapter used to verify the identity of the user who performed the action that caused the workspace ID to be exported.		
UserAction	String. Specifies the user action that caused the workspace ID to be exported.		
	Valid values:		
	• Created		
	• Published		
UserId	String. Specifies the identity of the user who performed the action that caused the workspace ID to be exported.		
WorkspaceClassName	String. Specifies the type of workspace.		
	Valid values:		
	ariba.collaborate.contracts.ContractWorkspace(procurement contract workspaces)		
	• ariba.collaborate.contracts.ContractRequest(procurement contract requests)		
	• ariba.collaborate.contracts.SalesContractWorkspace(sales contract workspaces)		
	• ariba.collaborate.contracts.SalesContractRequest(salescontractrequests)		
	• ariba.collaborate.contracts.InternalContractWorkspace(internal contract workspaces)		
WorkspaceId	String. Specifies the workspace's unique ID.		
	For more information about contract IDs and workspace IDs, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].		

# WorkspaceIdExportReply

## $WSWork space Id Export Input Bean\_Item$

Element	Required	Type and Description
Message	Yes	String. Message (error or confirmation) returned by the client. Use Success to indicate that there were no errors.
Status	No	Integer. Return status. Return 0 to indicate that there were no errors.

## **Import CLID using XML**

The inbound web service Import CLID using XML creates or replaces a contract line items document after receiving a request from an external system.

The Import CLID using XML request specifies a workspace ID.

- If the workspace already contains a contract line items document, it is deleted and replaced with a document using the contents and title specified in the request.
- If the workspace already contains a pricing terms Excel document, the **Use As** field is cleared for the Excel document (the field is no longer set to **Contract Content**).

The Import CLID using XML web service receives a ContractContentXMLImportRequest from an external system and sends a ContractContentXMLImportReply in response.

If you are creating a standard-capacity line items document, a <code>ContractContentXMLImportReply</code> with a <code>Status</code> element with a <code>0</code> value (Success) indicates that the contents of the request were successfully written to the line items document.

If you are creating a large-capacity line items document, a ContractContentXMLImportReply with a Status element with a 0 value (Success) indicates that the contents of the request were submitted for processing; processing can take several minutes. To determine if the contents of the line items document have been processed, open the document from the **Documents** area in the workspace.

## ${\bf Contract Content XMLImport Request}$

A ContractContentXMLImportRequest contains a WSContractContentXMLImportInputBean\_Item, which contains an item. The item contains the following child elements:

Element	Required	Type and Description
WorkspaceId	Yes	String. The ID of the contract workspace in which the contract line items document will be created or replaced.
Title	Yes	String. Title for the contract line items document.
ClidImportXMLBean	Yes	Complex type. Contains contract line item data. See ClidImportXMLBean [page 45].
IsLargeCapacity	Yes	Boolean. Specifies if the contract line items document is a large-capacity document.
OnBehalfUserId	Yes	String. ID of the user for whom the web service will import the document.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element. If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.

## ClidImportXMLBean

A  ${\tt ClidImportXMLBean}$  contains the following child elements:

- ContractItemInformation (one or more occurrences)
- ContractHeader (one optional occurrence
- HeaderAttributes (one optional occurrence)
- ItemAttributes (one optional occurrence)

#### ContractItemInformation

A ContractItemInformation element contains one or more item child elements; each item element contains the following child elements:

Element	Required	Type and Description
Bundle	No	String. Bundle name, as specified in the event award (for line items documents created from SAP Ariba Sourcing event awards).
ClassificationCode	No	String. Category or classification code value, such as a commodity code.
ClassificationDomain	No	String. Domain for the category or classification, such as UNSPSC for commodities.
Description	No	String. Item description.
DiscountAmount	No	String. Discount, specified as a fixed amount.
ExtendedDescription	No	String. Full Description field for a compliance contract.
ItemNumber	No	String. Used by SAP Ariba Contracts to identify an item and correlate an item with item attributes (ItemAttributes child item.
LimitType	No	String. Specifies how the limit is regulatedby Amount (cost of items) or Quantity (number of items).
ManufacturerName	No	String. Name of manufacturer.
ManufacturerPartNumber	No	String. Manufacturer's part number.
MaximumAmount	No	String. Maximum value of the items that can be purchased.
MaximumQuantity	No	String. Maximum number of items that can be purchased.
MinimumAmount	No	String. Minimum value of the items that can be purchased.
MinimumQuantity	No	String. Minimum number of items that can be purchased.
Quantity	Yes	String. The number of units.
ShortName	Yes	String. Item name.
SupplierDiscount	No	String. SAP Ariba does not set or read this field.
SupplierPartNumber	No	String. Supplier part number.

Element	Required	Type and Description
UnitOfMeasure	Yes	String. Unit of measure for the unit price (Price Unit field for a compliance contract).
UnitOfPrice	No	String. Price per unit.
UnitPriceCurrency	No	String. Currency type for unit price.

#### ContractHeader

A ContractHeader element contains an optional item child element; the item element contains the following child elements:

Element	Required	Type and Description
AgreementDate	No	XSD DateTime. Agreement Date, such as the date from the workspace header.
BuyerContractID	No	String. The corresponding SAP Ariba Procurement solutions compliance contract ID.
CompanyName	No	String. SAP Ariba does not set or read this field.
ContractCurrency	No	String. SAP Ariba does not set or read this field.
ContractSource	No	String. Specifies the source of the contract workspace (Ariba).
Description	No	String. Description for the line items document.
EffectiveDate	No	XSD DateTime. Effective Date, such as the date from the workspace header.
EventID	No	String. Document ID and title (docId - title) of the line items.
ExpirationDate	No	XSD DateTime. Expiration Date from the workspace header.
LimitType	No	String. Specifies how the limit is regulatedby Amount (cost of items) or Quantity (number of items).
MaximumAmount	No	String. SAP Ariba does not set or read this field.
MinimumAmount	No	String. SAP Ariba does not set or read this field.
ReferenceDocument	No	String. If the line items document was created from a contract terms link to a compliance contract, specify the ID of the contract terms.
Requester	No	String. ID of the user who created or updated this document.
SupplierIDDomain	No	String. Domain from which the supplier ID is assigned, such as buyersystemid or sap. A supplier can have multiple IDs, each assigned from a different domain.
SupplierIDValue	No	String. Supplier ID.
SupplierName	No	String. Supplier field from the project header.
TermType	No	String. Contract type. If specified, this must be Item.
Title	No	String. Title of the line items document.

#### **HeaderAttributes**

The following child elements are defined for the **HeaderAttributes** element but SAP Ariba does not set or read values for these elements:

- AttributeName
- AttributeValue
- DisplayText
- Type
- Description
- TableSectionColumn

#### **ItemAttributes**

An ItemAttributes element contains optional item child elements; each item element contains the following child elements:

Element	Required	Type and Description
AttributeName	No	String. Attribute name.
AttributeValue	No	String. Attribute value.
Description	No	String. Description for the attribute.
DisplayText	No	String. Display text for the attribute.
ItemNumber	No	String. Used by SAP Ariba Contracts to correlate attributes with an item (ContractItemInformation child item).
LineType	No	Used for service item hierarchies. Specifies the type of service item. Valid values:  • Service Line (top-most level; all service outlines and service specifications must be contained in a service line)  • Service Outline (optional objects used to organize service items; can contain child service outlines or service specifications)  • Service Specification (specifies a service to be performed; cannot contain any children)

Element	Required	Type and Description
Number	No	Used for service item hierarchies. A string with a unique dotted-decimal value that indicates the item's hierarchy and its position in the hierarchy. For example, items with <b>Number</b> values 2, 2.1, and 2.1.1 are members of the same hierarchy. The item with <b>Number</b> 2 is at the highest level of the hierarchy and the item with <b>Number</b> 2.1.1 is at the lowest level.  Number is used only to define service item hierarchies and is ignored if <b>LineType</b> is not Service Line, Service Outline, or Service Specification. <b>Number</b> has no effect on an item's order in a list, other than ensuring that the items in the same hierarchy are listed together and in descending order.
Туре	No	String. Data type for the attribute, such as <b>Text</b> or <b>Money</b> .

## ContractContentXMLImportReply

The ContractContentXMLImportReply contains a WSContractContentXMLOutputBean\_Item. The WSContractContentXMLOutputBean\_Item contains a sequence of one item. The item contains the following child elements:

Element	Type and Description
DocumentId	String. Unique system ID for the created or updated document.
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status.
	If you are creating a standard-capacity line items, 0 indicates that the contents of the request were successfully written to the line items document.
	If you are creating a large-capacity line items document, 0 indicates that the contents of the request were submitted for processing; processing can take several minutes. To determine if the contents of the line items document have been processed, open the document from the <b>Documents</b> area in the workspace and check the status message for the import.

## **Import Contract Line Items Document**

The inbound web service, Import Contract Line Items Document, creates a contract line items document after receiving a request from an external system. The contents for the contract line items document are specified in a pricing terms Excel document, base64 encoded.

To create a pricing terms Excel document for the contents, you can use the information in Excel format for contract line items documents [page 132] to create an Excel document in the correct format. The document must include a **Contract Item Information** worksheet. You can omit the **Contract Header** and **Header Attributes** worksheets. If

you do not need or want to specify terms specific to item master data, you can also omit the **Item Attributes** worksheet.

The Import Contract Line Items Document request specifies a workspace ID.

- If the workspace already contains a contract line items document, it is deleted and replaced with a document using the contents and title specified in the Import Contract Line Items Document request.
- If the workspace already contains a pricing terms Excel document, the **Use As** field is cleared for the Excel document (the field is no longer set to **Contract Content**).

The Import Contract Line Items Document web service receives a ContractContentDocumentImportRequest from an external system and sends a ContractContentDocumentImportReply in response.

If you are creating a standard-capacity line items document, a <code>ContractContentDocumentImportReply</code> with a <code>Status</code> element with a <code>0</code> value (Success) indicates that the contents of the request were successfully written to the line items document.

If you are creating a large-capacity line items document, a <code>ContractContentDocumentImportReply</code> with a <code>Status</code> element with a <code>0</code> value (Success) indicates that the contents of the request were submitted for processing; processing can take several minutes. To determine if the contents of the line items document have been processed, open the document from the <code>Documents</code> area in the workspace.

- If the status is **The Excel import request has been submitted successfully**, the contents have not completed processing.
- If the status is **The Excel import request has been completed successfully**, the contents have completed processing and are ready for use.

## **ContractContentDocumentImportRequest Elements**

 $The {\tt ContractContentDocumentImportRequest} \ contains \ a \\ {\tt WSContractContentDocumentInputBean\_Item}. \ The {\tt WSContractContentDocumentInputBean\_Item} \\ contains \ a \ sequence \ with \ one {\tt WSContractContentDocumentInputBean}.$ 

## WSContract Content Document Input Bean

Element	Required	Type and Description
Contents	Yes	XSD base64Binary (string with base64-encoded data). A pricing terms Excel file, base64 encoded.
IsLargeCapacity	Yes	Boolean. If false, create or update a standard-capacity line items document; the pricing terms in the Contents cannot contain more than 2000 items. If true, create a large-capacity line items document.
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action.

Element	Required	Type and Description
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
Title	Yes	String. Specifies the document name.
WorkspaceId	Yes	String. Specifies the ID of the project (workspace) in which the document will be created or that contains the document to be replaced. If the workspace already contains a line items document, the document is deleted and replaced with a document created using the contents of the Title and Contents elements.

## **ContractContentDocumentImportReply Elements**

 $\label{lem:contractContentDocumentImportReply contains a WSContractContentDocumentOutputBean\_Item. \\ The \mbox{WSContractContentDocumentOutputBean}\_Item \mbox{ contains a sequence of one } \\ \mbox{WSContractContentDocumentOutputBean}.$ 

## WSContract Content Document Output Bean

Element	Type and Description
DocumentId	String. Unique system ID for the created or updated document.
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status.
	If you are creating a standard-capacity line items, 0 indicates that the contents of the request were successfully written to the line items document.
	If you are creating a large-capacity line items document, 0 indicates that the contents of the request were submitted for processing; processing can take several minutes. To determine if the contents of the line items document have been processed, open the document from the <b>Documents</b> area in the workspace and check the status message for the Excel import.

# **Import Internal Contract Workspace**

Use the Import Internal Contract Workspace web service to create internal contract workspaces (projects) or to update internal contract project header fields.

The Import Internal Contract Workspace web service receives InternalContractWorkspaceImportRequest messages and responds with InternalContractWorkspaceImportReply messages.

If you are creating a contract project, you must specify the system ID of the template to use for creating the project. You can also specify a contract ID to use when creating the project. You can use this contract ID to identify the project when updating the project.

If you are creating or updating a project and your configuration does not contain any custom fields, you must omit the custom element in the first level immediately below the ProjectHeaderFields element.

If the organizations that can be selected for the Affected Parties field do not contain any custom fields, you must omit the custom element contained in the AffectedParties element. Alternatively, you can omit the entire AffectedParties element.

The InternalContractRequestWorkspaceReply includes a URL (web jumper) to the created or updated project.

If you are updating a project, the SAP Ariba web service retains the existing values for any project header field elements that you do not include or for which you do not specify a value.

## InternalContractWorkspaceImportRequest Elements

### InternalWSContractWorkspaceInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.
		Valid values:
		Create. Creates a new project.
		Update. Update project fields of an existing project. You can update the fields of a published contract workspace, but this will not create a new amendment or version.
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action. When creating a project, the SAP Ariba web service creates the project with this user as the owner if the Owner element is not specified.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.

Element	Required	Type and Description
ParentAgreementId	Yes	String. Specify the internal ID of the master agreement when updating a subagreement (HierarchicalType is SubAgreement) to validate its identity. Do not specify a value if the project is not a subagreement (HierarchicalType is StandAlone or MasterAgreement).
		If the master agreement was created with the interactive user interface, its internal ID and displayed <b>Contract ID</b> values are the same. If the master agreement was created using a legacy load operation, its internal ID is not displayed but the
		Application.ACM.EvaluateParentAgreementFromParentC ontractId site configuration option can be set to yes so that the web service accepts the <b>Contract ID</b> instead of the internal ID. For more information, see Site Configuration Options for Integration Services [page 150].
ParentWorkspaceId	Yes	String. The contract ID (for example, CW12345) of the parent project for the contract project. Specifying a value in this field creates the workspace as a subproject of the specified parent.
ProjectHeaderFields	No	InternalContractWorkspace_WSProjectImport.Project header fields. See ProjectHeaderFields [page 53].
TemplateId	Yes	String. System ID that specifies the template to use to create the project (for example, SYS0052).
		If the Action element is Update, this element is ignored.
WorkspaceId	Yes	String. Specifies the workspace ID. When using the service to create a project, do not specify a value. If the SAP Ariba web service successfully creates a project, it returns the system-generated workspace ID in the the WorkspaceId element of the response.
		If you are updating a contract project, you must use the WorkspaceId element or the ContractId element to identify the project you want to update.
		For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].

# **ProjectHeaderFields**

Element	Required	Type and Description
AffectedParties	No	Complex type. Supplier or customer organizations who are involved in the contract project, but who might not be direct participants. This field is often used in contracts referred to as "multi-party contracts."
		This element contains a sequence of zero or more items with the following child elements:
		<ul> <li>SystemID (optional string). Specifies the system ID for the organization. To determine valid IDs, use the Export Organizations task.</li> <li>custom (optional complex type). Custom fields. For more information, see Custom Body Elements for Web Services [page 30].</li> </ul>
AgreementDate	No	XSD DateTime. The date for the agreement. You can use this field as defined by your organization. For more information, see XSD DateTime Elements [page 29].
Amount	No	Complex type. The negotiated and approved contract amount for the completed contract project. The amount might differ from any ProposedAmount value specified at the beginning of the project. This element has the following child elements:
		Amount (optional decimal): Decimal amount.
		<ul> <li>Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).</li> </ul>
AutoRenewalInterval	No	Integer. Specifies the renewal interval, in months. Required if ExpirationTermType is AutoRenew.
BaseLanguage	No	Complex type. This element has the following child element:
		<ul> <li>UniqueName (optional string): Specifies the language in which a user sees the project if there is no translation for the project in the user's preferred language. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].</li> </ul>
Client	No	Complex type. The departments in your company for which the project is applicable. This element contains a sequence of zero or more of the following item:
		DepartmentID (optional string): Specifies the system ID for the department. To determine valid values, use the Export Departments task.
Commodity	No	Complex type. The commodity for the project. This element contains a sequence of zero or more items with the following child elements:
		Domain (required string): Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).
		<ul> <li>UniqueName (required string): Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid com- modity ID values, use the Export Commodity Codes task.</li> </ul>

Element	Required	Type and Description
ContractId	No	String. Specifies the contract's unique ID. This can be the unique ID used in the third-party system. If you are creating a contract project, the system creates the project and assigns this contract ID if it is not already in use; if you do not specify a value, the SAP Ariba web service assigns the system-generated workspace ID as the contract ID.
		If you are updating a project, you must use the ContractId element or
		the WorkspaceId element to identify the project you want to update.
		For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].
Description	No	Complex type. This element has the following child element:
		DefaultStringTranslation (optional string): Description for the project.
EffectiveDate	Yes	XSD DateTime. The date when the terms of the contract go into effect.
ExpirationDate	No	XSD DateTime. The date on which the contract expires. This field is ignored in contract workspaces with a Perpetual expiration term type.
ExpirationTermType	Yes	String. Controls the behavior of a contract project when it reaches its expiration date. Valid values are:
		<ul> <li>Fixed. The contract workspace expires when it reaches its expiration date.</li> <li>Perpetual. The contract workspace never expires; also known as an</li> </ul>
		evergreen contract.  • AutoRenew. The contract workspace is automatically extended past its expiration date according to the Renewal Interval and the Maximum Number of Renewals fields.  If no value is specified for this element and the workspace does not already exist (Action is Create), the value Fixed is used; if the
		workspace already exists (Action is Update), the current value for the workspace is retained.
HierarchicalType	No	String. Specifies the hiearchical type. Valid values:  StandAlone MasterAgreement SubAgreement If you specify SubAgreement, use the ParentAgreementID element to specify the contract ID of the master agreement.
		If no value is specified for this element and the workspace does not already exist (Action is Create), the value StandAlone is used; if the workspace already exists (Action is Update), the current value for the workspace is retained.
MaxAutoRenewalsAllowed	No	Integer. Maximum number of renewals allowed. Required if ExpirationTermType is AutoRenew.

Element	Required	Type and Description
Owner	No	Complex type. Specifies the owner for the project. If you are creating a project and do not include this element, the project is created with the user specified in the OnBehalfUserId element as the owner. This element has the following child element:  • UniqueName (optional string): Unique name (for example, j smith)
		of the owner.
ProposedAmount	No	Complex type. The proposed monetary amount of the contract. This element has the following child elements:
		Amount (optional decimal): Decimal amount.
		Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
Region	No	Complex type. The region for the project. This element contains a sequence of zero or more items with the following child element:
		Region (optional string): Specifies the region. To determine valid values, use the Export Regions task.
RelatedId	No	String. Specifies any related ID, such as an ID for a related record or document in an external system.
Title	No	Complex type. This element has the following child element:
		DefaultStringTranslation (optional string): Workspace title.
custom	No	Complex type. This element is used for custom project header fields. For more information, see Custom Body Elements for Web Services [page 30].

# InternalContractWorkspaceImportReply Elements

## Internal WS Contract Work space Output Bean

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. O indicates success.
Url	String. URL to the created or updated project.
WorkspaceId	String. Unique, system-generated ID for the created or updated project.

# Import Procurement Contract Request and Import Procurement Contract Workspace

Use the Import Procurement Contract Request and Import Procurement Contract Workspace web services to create procurement contract requests or workspaces. You can also use these web services to update procurement contract project header fields.

The Import Procurement Contract Request web service receives ContractRequestImportRequest messages and responds with ContractRequestImportReply messages.

The Import Procurement Contract Workspace web service receives ContractWorkspaceImportRequest messages and responds with ContractWorkspaceImportReply messages.

If you are creating a contract project, you must specify the system ID of the template to use for creating the project. You can also specify a contract ID to use when creating the project. You can use this contract ID to identify the project when updating the project.

If you are creating or updating a project and your configuration does not contain any custom fields, you must omit the custom element in the first level immediately below the ProjectHeaderFields element.

If the organizations that can be selected for the Affected Parties field do not contain any custom fields, you must omit the custom element contained in the AffectedParties element. Alternatively, you can omit the entire AffectedParties element.

The ContractRequestImportReply or the ContractRequestWorkspaceReply includes a URL (web jumper) to the created or updated project.

If you are updating a project, the SAP Ariba web service retains the existing values for any project header field elements that you do not include or for which you do not specify a value.

The following project header field elements are supported for contract workspaces but are not supported for contract requests:

- HierarchicalType
- RelatedId

For an example of an Import Procurement Contract Workspace request, see Web Service Example: Creating a Procurement Contract Workspace [page 117].

# ContractRequestImportRequest and ContractWorkspaceImportRequest Elements

## WSContractRequestInputBean or WSContractWorkspaceInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.
		Valid values:
		Create. Creates a new project.
		<ul> <li>Update. Update project fields of an existing project. You can update the fields of a published contract workspace, but this will not create a new amendment or version.</li> </ul>
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action. When creating a project, the SAP Ariba web service creates the project with this user as the owner if the Owner element is not specified.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
ParentAgreementId	Yes	String. Specify the internal ID of the master agreement when updating a subagreement (HierarchicalType is SubAgreement) to validate its identity. Do not specify a value if the project is not a subagreement (HierarchicalType is StandAlone or MasterAgreement).
		If the master agreement was created with the interactive user interface, its internal ID and displayed <b>Contract ID</b> values are the same. If the master agreement was created using a legacy load operation, its internal ID is not displayed but the
		Application.ACM.EvaluateParentAgreementFromParentC ontractId site configuration option can be set to yes so that the web service accepts the <b>Contract ID</b> instead of the internal ID. For more information, see Site Configuration Options for Integration Services [page 150].
ParentWorkspaceId	Yes	String. The contract ID (for example, CW12345) of the parent project for the contract project. Specifying a value in this field creates the workspace as a subproject of the specified parent.
ProjectHeaderFields	No	ContractRequest_WSProjectImport or ContractWorkspace_WSProjectImport. Project header fields. See ProjectHeaderFields [page 58].
TemplateId	Yes	String. System ID that specifies the template to use to create the project (for example, SYS0052).
		If the Action element is Update, this element is ignored.

Element	Required	Type and Description
WorkspaceId	Yes	String. Specifies the workspace ID. When using the service to create a project, do not specify a value. If the SAP Ariba web service successfully creates a project, it returns the system-generated workspace ID in the the WorkspaceId element of the response.  If you are updating a contract project, you must use the WorkspaceId element or the ContractId element to identify the project you want to update.
		For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].

# **ProjectHeaderFields**

Element	Required	Type and Description
AffectedParties	No	Complex type. Supplier or customer organizations who are involved in the contract project, but who might not be direct participants. This field is often used in contracts referred to as "multi-party contracts."
		This element contains a sequence of zero or more items with the following child elements:
		<ul> <li>SystemID (optional string). Specifies the system ID for the organization. To determine valid IDs, use the Export Organizations task.</li> <li>custom (optional complex type). Custom fields. For more information, see Custom Body Elements for Web Services [page 30].</li> </ul>
AgreementDate	No	XSD DateTime. The date for the agreement. You can use this field as defined by your organization. For more information, see XSD DateTime Elements [page 29].
Amount	No	Complex type. The negotiated and approved contract amount for the completed contract project. The amount might differ from any ProposedAmount value specified at the beginning of the project. This element has the following child elements:
		<ul> <li>Amount (optional decimal): Decimal amount.</li> <li>Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).</li> </ul>
AutoRenewalInterval	No	Integer. Specifies the renewal interval, in months. Required if ExpirationTermType is AutoRenew.
BaseLanguage	No	Complex type. This element has the following child element:  • UniqueName (optional string): Specifies the language in which the project is displayed if there is no translation for the project in the user's preferred language. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].

Element	Required	Type and Description
Client	No	Complex type. The departments in your company for which the project is applicable. This element contains a sequence of zero or more of the following item:
		DepartmentID (optional string): Specifies the system ID for the department. To determine valid values, use the Export Departments task.
Commodity	No	Complex type. The commodity for the project. This element contains a sequence of zero or more items with the following child elements:
		<ul> <li>Domain (required string): Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).</li> </ul>
		UniqueName (required string): Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid commodity ID values, use the Export Commodity Codes task.
ContractId	No	String. Specifies the contract's unique ID. This can be the unique ID used in the third-party system. If you are creating a contract project, the system creates the project and assigns this contract ID if it is not already in use; if you do not specify a value, the SAP Ariba web service assigns the system-generated workspace ID as the contract ID.
		If you are updating a project, you must use the ContractId element or
		the WorkspaceId element to identify the project you want to update.
		For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].
Description	No	Complex type. This element has the following child element:
		DefaultStringTranslation (optional string): Description for the project.
EffectiveDate	Yes	XSD DateTime. The date when the terms of the contract go into effect.
ExpirationDate	No	XSD DateTime. The date on which the contract expires. This field is ignored in contract workspaces with a Perpetual expiration term type.
ExpirationTermType	Yes	String. Controls the behavior of a contract project when it reaches its expiration date. Valid values are:
		Fixed. The contract workspace expires when it reaches its expiration date.
		Perpetual. The contract workspace never expires; also known as an evergreen contract.
		AutoRenew. The contract workspace is automatically extended past its expiration date according to the Renewal Interval and the Maximum Number of Renewals fields.
		If no value is specified for this element and the workspace does not al-
		ready exist (Action is Create), the value Fixed is used; if the
		workspace already exists (Action is Update), the current value for the workspace is retained.

Element	Required	Type and Description
HierarchicalType No	String. Specifies the hiearchical type. Valid values:  • StandAlone  • MasterAgreement  • SubAgreement  If you specify SubAgreement, use the ParentAgreementID element to specify the contract ID of the master agreement.  If no value is specified for this element and the workspace does not already exist (Action is Create), the value StandAlone is used; if the workspace already exists (Action is Update), the current value for the workspace is retained.	
		i Note This element is not present in ContractRequestImportRequest messages.
MaxAutoRenewalsAllowed	No	Integer. Maximum number of renewals allowed. Required if ExpirationTermType is AutoRenew.
Owner	No	Complex type. Specifies the owner for the project. If you are creating a project and do not include this element, the project is created with the user specified in the OnBehalfUserId element as the owner. This element has the following child element:  • UniqueName (optional string): Unique name (for example, gsun) of the owner.
ProposedAmount	No	Complex type. The proposed monetary amount of the contract. This element has the following child elements:  • Amount (optional decimal): Decimal amount.  • Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
Region	No	Complex type. The region for the project. This element contains a sequence of zero or more items with the following child element:  Region (optional string): Specifies the region. To determine valid values, use the Export Regions task
RelatedId	No	String. Specifies any related ID, such as an ID for a related record or document in an external system.  i Note  This element is not present in ContractRequestImportRequest messages.

Element	Required	Type and Description
Supplier	No	Complex type. Specifies the supplier. This element has the following child element:
		SystemID (optional string): Specifies the system ID of the supplier.  To determine valid values, use the Export Organizations task. You can also view the supplier in the chooser for the Customer field of a project; click on the supplier name to view the details for the name and use the value displayed in the ID field.
Title	No	Complex type. This element has the following child element:  • DefaultStringTranslation (optional string): Workspace title.
custom	No	Complex type. This element is used for custom project header fields. For more information, see Custom Body Elements for Web Services [page 30].

# ContractRequestImportReply and ContractWorkspaceImportReplyElements

### WSContractRequestOutputBean or WSContractWorkspaceOutputBean

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. 0 indicates success.
Url	String. URL to the created or updated project.
WorkspaceId	String. Unique, system-generated ID for the created or updated project.

# **Import Sales Contract Request and Import Sales Contract Workspace**

Use the Import Sales Contract Request and Import Sales Contract Workspace web services to create sales contract requests or workspaces. You can also use these web services to update sales contract project header fields.

The Import Sales Contract Request web service receives SalesContractRequestImportRequest messages and responds with SalesContractRequestImportReply messages.

The Import Sales Contract Workspace web service receives SalesContractWorkspaceImportRequest messages and responds with SalesContractWorkspaceImportReply messages.

If you are creating a contract project, you must specify the system ID of the template to use for creating the project. You can also specify a contract ID to use when creating the project. You can use this contract ID to identify the project when updating the project.

If you are creating or updating a project and your configuration does not contain any custom fields, you must omit the custom element in the first level immediately below the ProjectHeaderFields element.

If the organizations that can be selected for the Affected Parties field do not contain any custom fields, you must omit the custom element contained in the AffectedParties element. Alternatively, you can omit the entire AffectedParties element.

The SalesContractRequestImportReply or the SalesContractRequestWorkspaceReply includes a URL (web jumper) to the created or updated project.

If you are updating a project, the SAP Ariba web service retains the existing values for any project header field elements that you do not include or for which you do not specify a value.

To specify values for the Customer project header field, use the supplier element.

The following project header field elements are supported for sales contract workspaces but are not supported for sales contract requests:

- HierarchicalType
- RelatedId

The following project header field elements are supported for sales contract requests but are not supported for sales contract workspaces:

- DealStage
- EstimatedCloseDate

# SalesContractRequestImportRequest and SalesContractWorkspaceImportRequest Elements

## WSSalesContractRequestInputBean or WSSalesContractWorkspaceInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.
		Valid values:
		Create. Creates a new project.
		Update. Update project fields of an existing project. You can update the fields of a published contract workspace, but this will not create a new amendment or version.
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action. When creating a project, the SAP Ariba web service creates the project with this user as the owner if the Owner element is not specified.

Element	Required	Type and Description
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
ParentAgreementId	Yes	String. Specify the internal ID of the master agreement when updating a subagreement (HierarchicalType is SubAgreement) to validate its identity. Do not specify a value if the project is not a subagreement (HierarchicalType is StandAlone or MasterAgreement).  If the master agreement was created with the interactive user interface, its internal ID and displayed Contract ID values are the same. If the master agreement was created using a legacy load operation, its internal ID is not displayed but the  Application.ACM.EvaluateParentAgreementFromParentC ontractId site configuration option can be set to yes so that the web service accepts the Contract ID instead of the internal ID. For more infor-
ParentWorkspaceId	Yes	mation, see Site Configuration Options for Integration Services [page 150].  String. The contract ID (for example, CW12345) of the parent project for the contract project. Specifying a value in this field creates the workspace as a subproject of the specified parent.
ProjectHeaderFields	No	SalesContractRequest_WSProjectImport or SalesContractWorkspace_WSProjectImport. Project header fields. See ProjectHeaderFields [page 64].
TemplateId	Yes	String. System ID that specifies the template to use to create the project (for example, SYS0052).  If the Action element is Update, this element is ignored.
WorkspaceId	Yes	String. Specifies the workspace ID. When using the service to create a project, do not specify a value. If the SAP Ariba web service successfully creates a project, it returns the system-generated workspace ID in the the WorkspaceId element of the response.  If you are updating a contract project, you must use the WorkspaceId element or the ContractId element to identify the project you want to
		update.  For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].

# **ProjectHeaderFields**

Element	Required	Type and Description
AffectedParties	No	Complex type. Supplier or customer organizations who are involved in the contract project, but who might not be direct participants. This field is often used in contracts referred to as "multi-party contracts."
		This element contains a sequence of zero or more items with the following child elements:
		<ul> <li>SystemID (optional string). Specifies the system ID for the organization. To determine valid IDs, use the Export Organizations task.</li> <li>custom (optional complex type). Custom fields. For more information, see Custom Body Elements for Web Services [page 30].</li> </ul>
AgreementDate	No	XSD DateTime. The date for the agreement. You can use this field as defined by your organization. For more information, see XSD DateTime Elements [page 29].
Amount	No	Complex type. The negotiated and approved contract amount for the completed contract project. The amount might differ from any ProposedAmount value specified at the beginning of the project. This element has the following child elements:
		Amount (optional decimal): Decimal amount.
		Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
AutoRenewalInterval	No	Integer. Specifies the renewal interval, in months. Required if ExpirationTermType is AutoRenew.
BaseLanguage	No	Complex type. This element has the following child element:
		UniqueName (optional string): Specifies the language in which the project is displayed if there is no translation for the project in the user's preferred language. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].
Client	No	Complex type. The departments in your company for which the project is applicable. This element contains a sequence of zero or more of the following item:
		DepartmentID (optional string): Specifies the system ID for the department. To determine valid values, use the Export Departments task.
Commodity	No	Complex type. The commodity for the project. This element contains a sequence of zero or more items with the following child elements:
		Domain (required string): Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).      Universal Standard Products and Services Classification).
		<ul> <li>UniqueName (required string): Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid com- modity ID values, use the Export Commodity Codes task.</li> </ul>

Element	Required	Type and Description
ContractId	No	String. Specifies the contract's unique ID. This can be the unique ID used in the third-party system. If you are creating a contract project, the system creates the project and assigns this contract ID if it is not already in use; if you do not specify a value, the SAP Ariba web service assigns the system-generated workspace ID as the contract ID.  If you are updating a project, you must use the ContractId element or the WorkspaceId element to identify the project you want to update.  For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].
DealStage	No	Integer. A value from 1 to 10 that indicates the position of the sales contract in the deal cycle, where 1 is the beginning and 10 is the end.
Description	No	Complex type. This element has the following child element:
		DefaultStringTranslation (optional string): Description for the project.
EffectiveDate	Yes	XSD DateTime. The date when the terms of the contract go into effect.
EstimatedCloseDate	No	XSD DateTime. The estimated close date for the sales contract that results from this sales contract request.
ExpirationDate	No	XSD DateTime. The date on which the contract expires. This field is ignored in contract workspaces with a Perpetual expiration term type.
ExpirationTermType	Yes	String. Controls the behavior of a contract project when it reaches its expiration date. Valid values are:
		<ul> <li>Fixed. The contract workspace expires when it reaches its expiration date.</li> <li>Perpetual. The contract workspace never expires; also known as an evergreen contract.</li> <li>AutoRenew. The contract workspace is automatically extended past its expiration date according to the Renewal Interval and the Maximum Number of Renewals fields.         If no value is specified for this element and the workspace does not already exist (Action is Create), the value Fixed is used; if the workspace already exists (Action is Update), the current value for the workspace is retained.     </li> </ul>

Element	Required	Type and Description
HierarchicalType	No	String. Specifies the hiearchical type. Valid values:  StandAlone  MasterAgreement  SubAgreement  If you specify SubAgreement, use the ParentAgreementID element to specify the contract ID of the master agreement.  If no value is specified for this element and the workspace does not already exist (Action is Create), the value StandAlone is used; if the workspace already exists (Action is Update), the current value for the workspace is retained.  Note  This element is not present in SalesContractRequestImportRequest messages.
MaxAutoRenewalsAllowed	No	Integer. Maximum number of renewals allowed. Required if ExpirationTermType is AutoRenew.
Owner	No	Complex type. Specifies the owner for the project. If you are creating a project and do not include this element, the project is created with the user specified in the OnBehalfUserId element as the owner. This element has the following child element:  • UniqueName (optional string): Unique name (for example, jsmith) of the owner.
Product	No	Complex type. The products for the project. This element contains a sequence of zero or more items with the following child element:  • UniqueName (optional string): The product code. To determine valid values, use the Export Products task.
ProposedAmount	No	Complex type. The proposed monetary amount of the contract. This element has the following child elements:  • Amount (optional decimal): Decimal amount.  • Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
Region	No	Complex type. The region for the project. This element contains a sequence of zero or more items with the following child element:  Region (optional string): Specifies the region. To determine valid values, use the Export Regions task
RelatedId	No	String. Specifies any related ID, such as an ID for a related record or document in an external system.  i Note This element is not present in SalesContractRequestImportRequest messages.

Element	Required	Type and Description
Supplier	No	Complex type. Specifies the customer. This element has the following child element:
		SystemID (optional string): Specifies the system ID of the customer.  To determine valid values, use the Export Organizations task. You can also view the customer in the chooser for the Customer field of a project; click on the customer name to view the details for the name and use the value displayed in the ID field.
Title	No	Complex type. This element has the following child element:  • DefaultStringTranslation (optional string): Workspace title.
custom	No	Complex type. This element is used for custom project header fields. For more information, see Custom Body Elements for Web Services [page 30].

# SalesContractRequestImportReply and SalesContractWorkspaceImportReply Elements

# WSSalesContractRequestOutputBean or WSSalesContractWorkspaceOutputBean

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. 0 indicates success.
Url	String. URL to the created or updated project.
WorkspaceId	String. Unique, system-generated ID for the created or updated project.

# **SOAP Web Services for Sourcing Events and Projects**

You can use the following web services to manage sourcing events and sourcing full projects:

- DocumentStatusChangeNotification [page 68] (for **Document URL** terms)
- DocumentURLOutBound [page 71] (for **Document URL** terms)
- Download RFX Awards [page 81]
- Download RFX Awards with Filters [page 82]
- Export RFX Awards [page 84]
- Import Sourcing Event [page 85]
- Import Sourcing Project [page 90]

## **DocumentStatusChangeNotification**

The DocumentStatusChangeNotification service sends event status update changes so you can change the availability or state of documents referenced in a **Document URL** term.

You must use the DocumentStatusChangeNotification service with the DocumentURLOutBound [page 71] service (the request requires a UniqueId returned in a DocumentURLOutBound response).

SAP Ariba sends DocumentStatusChangeNotificationRequest messages and receives DocumentStatusChangeNotificationReply messages. SAP Ariba sends a DocumentStatusChangeNotificationRequest message if an event meets the conditions for the DcoumentURLOutBound service and the event status changes. See Status [page 75] for list of possible status values.

### **DocumentStatusChangeNotificationRequest**

SAP Ariba sends a DocumentStatusChangeNotificationRequest when the state of an event changes and the **Enable document URL terms** event rule is set to **Yes**.

WSDocumentStatusChangeNotificationRequest\_Item contains an item element. The item element includes a Status element with the event status, which the buyer can use to modify the state of the web service for the URLs.

The item element contains the following elements:

- Realm [page 70] (the realm in which the event is hosted)
- Status [page 78] (the event status)
- Type [page 80] (the event type)
- UniqueId [page 77] (a unique ID for the event; used to correlate DocumentURLOutBound and DocumentStatusChangeNotification events)

#### Realm

Element	Required	Type and Description
Realm	Yes	String. Specifies the name of the realm hosting the event.

## **Status**

Element	Required	Type and Description
Status	Yes	String. Specifies the state of the event. The values are relevant to the web service and might not match the status displayed for the event in the user interface.
		For DocumentURLOutBoundRequest messages, SAP Ariba sends one of the following values:
		Draft (the event is in the Draft state and is not published)
		RFXDocument: Publish (the event is published)
		RFXDocument:RePublish (a previously published event was
		edited and republished)
		For DocumentStatusChangeNotificationRequest messages, SAP Ariba sends one of the following values:
		RFXDocument: MoveToOpen (the preview time for the event has elapsed and the event is open to receive responses)
		RFXDocument: Reopen (a closed event was reopened)
		RFXDocument: Extend (the event time was extended)
		RFXDocument: Suspend (the event manager suspended the event)
		RFXDocument:cancel (the event manager canceled the event)
		RFXDocument:close (the event has closed for responses and the status moved to Pending Selection or Completed)

## Type

Element	Required	Type and Description
Туре	Yes	String. Specifies the event type.
		Use the value RFx for RFI and RFP events.

# Uniqueld

Element	Required	Type and Description
UniqueId	Yes	String. Specifies a unique ID for the event, used by the DocumentURLOut-Bound and DocumentStatusChangeNotification web services.  Use this value to correlate DocumentURLOutBound and DocumentStatusChangeNotification requests.

## **DocumentStatusChangeNotificationReply**

You use a DocumentStatusChangeNotificationReply to send an acknowledgement for a DocumentStatusChangeNotificationRequest.

A DocumentURLOutBoundReply contains a WSDocumentURLOutBoundResponse\_Item. The WSDocumentURLOutBoundResponse\_Item contains an item element. The item element contains the following elements:

- ErrorMessage [page 77] (error message)
- Realm [page 70] (realm in which the event is hosted)
- Status [page 78] (status for the operation)
- Type [page 80] (type of event)
- UniqueId [page 77] (a unique ID for the event; used to correlate DocumentURLOutBound and DocumentStatusChangeNotification events)

### **ErrorMessage**

Element	Required	Type and Description
ErrorMessage	Yes	String. The error or status message for the entire operation.
		The contents of this element are not processed by SAP Ariba are and reserved for future use.

#### Realm

Element	Required	Type and Description
Realm	Yes	String. Specifies the name of the realm hosting the event.

#### **Status**

Element	Required	Type and Description
String	Yes	String. Specifies the status for the entire operation.
		The contents of this element are not processed by SAP Ariba are and reserved for future use, such as using the value 0 to indicate success.

#### **Type**

Element	Required	Type and Description
Туре	Yes	String. Specifies the event type.
		Use the value RFx for RFI and RFP events.

#### Uniqueld

Element	Required	Type and Description
UniqueId	Yes	String. Specifies a unique ID for the event, used by the DocumentURLOut-Bound and DocumentStatusChangeNotification web services.
		Use this value to correlate DocumentURLOutBound and DocumentStatusChangeNotification requests.

### **DocumentURLOutBound**

The DocumentStatusChangeNotification service retrieves values for **Document URL** line item terms. The purpose of a **Document URL** term is to provide a link (**URL**) that participants can click to obtain documents from your site about the item with a **Description**.

SAP Ariba sends DocumentURLOutBoundRequest messages and receives DocumentURLOutBoundReply messages. You must use the DocumentURLOutBound service with the DocumentStatusChangeNotification [page 68] service.

The workflow for using the DocumentURLOutBound and DocumentStatusChangeNotification services is as follows:

- An administrator or integration team sets up the web services. This includes the following tasks:
  - Creating web services on a buyer's server that send responses to DocumentURLOutBound and DocumentStatusChangeNotification requests sent by SAP Ariba.
  - Using the SAP Ariba Integration Manager to configure and enable the DocumentURLOutBound and DocumentStatusChangeNotification outbound web services. The configuration includes security parameters and the URL for the buyer's web server.
- A template author sets the **Enable document URL terms** event rule under **Project Owner Actions** to **Yes**.
- (Optional) A template author adds the global term **Document URL** to the **Line Item** definition in an RFI or RFX event template.
- An event manager creates an RFI or RFP that contains line items with a **Document URL** term. The event manager invites participants.
- (Optional) The event manager clicks Retrieve document URLs.
  - SAP Ariba sends a DocumentURLOutBound request to the buyer's server. The request includes an entry for each combination of participant and item with a Document URL term and information about the event, such as the regions. The request also includes a Status element for the event with the value Draft.

- The buyer's web service sends back a reply with URLs. The reply must include an entry for each combination of participant and item with a Document URL term, and each of these entries must specify a URL to a buyer document. The buyer can use information in the request (such as the event state, start time, commodities, or regions, participants) to determine what URLs to send in the response and the state of the web server for the URLs. The URLs sent in the response do not have to be unique. Multiple combinations of a participant and item can reference the same URL (the same URL can be used for multiple participants or multiple items).
- The event manager checks the banner (top) area of the contents page to view the status of the Retrieve
  document URLs operation. The event manager also checks the status (Info field) displayed for each
  document URL in the event Content or Summary area.
- The event manager publishes the event. SAP Ariba sends a DocumentURLOutBound request. The request includes a Status element with the value RFXDocument: Publish.
  If an error occurs when sending the DocumentURLOutBound request or processing the response, SAP Ariba displays a warning but allows the event to be published.
  Participants viewing event contents can click the Document URL to view documents hosted on the buyer's server.
- The preview time for the event elapses and the event is open for participants to send responses. SAP Ariba sends a DocumentStatusChangeNotification request that includes a Status element with the value RFXDocument:MoveToOpen.
- When the event closes, SAP Ariba sends a DocumentStatusChangeNotification request that includes a Status element with the value RFXDocument:close. The buyer can choose to disable the document URLs.

If any **Document URL** terms have manually entered values, SAP Ariba overwrites them with values from the <code>DocumentURLOutBoundReply message</code>.

## DocumentURLOutBoundRequest elements

SAP Ariba sends a DocumentURLOutBoundRequest when an event manager clicks **Retrieve document URLs** or publishes an event and the **Enable document URL terms** event rule is set to **Yes**.

A DocumentURLOutBoundRequest contains a WSDocumentURLOutBoundRequest\_Item. The WSDocumentURLOutBoundRequest\_Item contains an item element. The item element contains the following elements, which the buyer can use to determine the URLs to send back in the response:

- Commodities [page 73] (the commodities for the event)
- Departments [page 73] (the departments for the event)
- EndTime [page 73] (the end time for the event)
- Owner [page 73] (the event owner)
- RealmName [page 74] (the SAP Ariba realm in which the event is hosted)
- Regions [page 74] (the regions for the event)
- StartTime [page 74] (the start time for the event)
- Status [page 75] (the event status, such as Open)
- Suppliers [page 75] (contains an entry for each participant who is participating in a line item with a **Document URL** term; for each participant, there is an entry for each line item)
- Type [page 76] (type of event)
- UniqueId [page 77] (a unique ID for the event; used to correlate DocumentURLOutBound and DocumentStatusChangeNotification events)

#### **Commodities**

The Commodities element contains one or more item elements. Each item element specifies a value in the **Commodity** field of the project or event header and contains the following elements:

Element	Required	Type and Description
CommodityName	Yes	String. Specifies the name for the commodity (shown in the <b>Name</b> column for the commodity in the user interface).
UniqueName	Yes	String. Specifies the unique identifier for the commodity (shown in the <b>ID</b> column for the commodity in the user interface).

#### **Departments**

The Departments element contains one or more item elements. Each item element specifies a value in the **Departments** field of the project or event header and contains the following elements:

Element	Required	Type and Description
DepartmentId	Yes	String. Specifies the ID for the department (shown in the <b>ID</b> column for the department in the user interface).
Description	Yes	String. Description of the department (shown in the <b>Function</b> column for the department in the user interface).

#### **EndTime**

Element	Required	Type and Description
EndTime	Yes	Long. Specifies the end time for the event using the Unix epoch, in milliseconds (the number of milliseconds since January 1, 1970 UTC).

#### **Owner**

The Owner element specifies information about the event owner and contains the following elements:

Element	Required	Type and Description
Email	Yes	String. The email address of the event owner.
Name	Yes	String. The name of the event owner.
UserId	Yes	String. The SAP Ariba ID of the event owner.

#### RealmName

#### Specifies the

Element	Required	Type and Description
RealmName	Yes	String. Specifies the SAP Ariba realm (site) hosting the event.

# Regions

The Regions element contains one or more item elements. Each item element specifies a value in the **Regions** field of the project or event header and contains the following elements:

Element	Required	Type and Description
Description	Yes	String. Specifies the description for the region (shown in the <b>Description</b> column for the region in the user interface).
Region	Yes	String. ID for the region (shown in the <b>Region</b> column for the region in the user interface).

#### **StartTime**

Element	Required	Type and Description
StartTime	Yes	Long. Specifies the start time for the event using the Unix epoch, in milliseconds (the number of milliseconds since January 1, 1970 UTC).

#### **Status**

Element	Required	Type and Description
Status	Yes	String. Specifies the state of the event. The values are relevant to the web service and might not match the status displayed for the event in the user interface.
		For DocumentURLOutBoundRequest messages, SAP Ariba sends one of the following values:
		Draft (the event is in the Draft state and is not published)
		RFXDocument: Publish (the event is published)
		RFXDocument:RePublish (a previously published event was edited and republished)
		For DocumentStatusChangeNotificationRequest messages, SAP Ariba sends one of the following values:
		RFXDocument: MoveToOpen (the preview time for the event has elapsed and the event is open to receive responses)
		RFXDocument:Reopen (a closed event was reopened)
		RFXDocument:Extend (the event time was extended)
		RFXDocument: Suspend (the event manager suspended the event)
		RFXDocument:cancel (the event manager canceled the event)
		RFXDocument:close (the event has closed for responses and the status moved to Pending Selection or Completed)

# **Suppliers**

The Suppliers element contains one or more item elements. Each item element specifies an event participant. Each item element includes a Materials element, which contains an item element for each line item that the participant can view and respond to (bid on).

The  ${\tt Suppliers}$  child item element contains the following elements:

Element	Required	Type and Description
ContactEmailAddress	Yes	String. Email address of the participant.
Contact Name	Yes	String. Name of the participant.

Element	Required	Type and Description
Materials	Yes	Complex type that contains a sequence of item elements, where each item specifies information about a line item that the participant can view and respond to (bid on). Each Materials child item contains the following elements:
		MaterialNumber: Required, String. Unique ID for the material (item).
		Name: Required, String. Name of the material (item).
		Plant: Required, String. ID of the plant for which the item is being sourced.
		PurchaseOrg: Required, String. ID of the purchasing organization for the item.
OrganizationID	Yes	String. System ID of the supplier organization for the participant.
UniqueName	Yes	String. Unique name (User ID) of the participant.
VendorKeys	Yes	Complex type that comprises the vendor compound key (a uniform identifier across all SAP Ariba solutions) for the participant's organization. It contains the following elements:
		BusinessSystemId: Required, string. Ariba Network uses the     Business System ID value to determine the correct ERP system to     use when buyers have a multiple ERP system integration.
		LocationId: Required, string. Maps to a field in Oracle and People- soft ERP systems. Not used in SAP ERP systems.
		SiteId: Required, String. The ID of the vendor location.
		<ul> <li>VendorId: Required, string. Ariba Network vendor ID for the supplier. The vendor identifier in your organization's backend ERP system, sometimes called a supplier private ID.</li> </ul>

## Type

Element	Required	Type and Description
Туре	Yes	String. Specifies the event type.
		The value is RFx for RFI and RFP events.

#### Uniqueld

Element	Required	Type and Description
UniqueId	Yes	String. Specifies a unique ID for the event, used by the DocumentURLOut-Bound and DocumentStatusChangeNotification web services.  Use this value to correlate DocumentURLOutBound and DocumentStatu-
		sChangeNotification requests.

## **DocumentURLOutBoundReply**

You use a <code>DocumentURLOutBoundReply</code> to send document URLs for items in an event. The reply must include an entry for each combination of participant and item with a <code>Document URL</code> term, and each of these entries must specify a URL to a buyer document. The buyer can use information in the request (such as the event state, start time, commodities, or regions, participants) to determine what URLs to send in the response and the state of the web server for the URLs. The URLs sent in the response do not have to be unique. Multiple combinations of a participant and item can reference the same URL (the same URL can be used for multiple participants or multiple items).

A DocumentURLOutBoundReply contains a WSDocumentURLOutBoundResponse\_Item. The WSDocumentURLOutBoundResponse\_Item contains an item element. The item element contains the following elements:

- ErrorMessage [page 77] (error message for the entire operation)
- Status [page 78] (status for the entire operation)
- Suppliers [page 78] (a URL and other information for each combination of participant and item sent in the request)
- Type [page 80] (type of event)
- UniqueId [page 77] (a unique ID for the event; used to correlate DocumentURLOutBound and DocumentStatusChangeNotification events)

#### **ErrorMessage**

Element	Required	Type and Description
ErrorMessage	Yes	String. The error or status message for the entire operation.
		The contents of this element are not processed by SAP Ariba are and reserved for future use.

#### **Status**

Element	Required	Type and Description
String	Yes	String. Specifies the status for the entire operation.
		The contents of this element are not processed by SAP Ariba are and reserved for future use, such as using the value 0 to indicate success.

#### **Suppliers**

The Suppliers element contains one or more item elements. Each item element specifies an event participant. Each item element includes a Materials element, which contains an item element for each line item that the participant can view and respond to (bid on) and specifies the document URL for that combination of participant and item.

Your response must contain a Materials child item element for each Materials child item element sent in the request.

The Suppliers child item element contains the following elements:

Element	Required	Type and Description
Materials	Yes	Complex type that contains a sequence of item elements, where each item specifies the document URL and other information for a line item that the participant can view and respond to (bid on). Each Materials child item contains the following elements:
		<ul> <li>DocumentUrl: Required, String. URL that the participant can use to get documents or information about the material. This URL will be displayed next to the the item when viewed by this participant and will be clickable.</li> <li>If the event owner manually entered a value for the URL in the event contents, the manually-entered values is replaced by the DocumentUrl.</li> </ul>
		DocumentUrlDescription: Required, String. Description for the document URL. This description will be displayed below the document URL when viewed by this participant.
		<ul> <li>ErrorMessage: Required, String. Message if an error occurred trying to return a document URL for this combination of participant and material.</li> <li>If non-empty, this is displayed for the event manager in the Info field for the combination of participant and material but is not visible to participants.</li> </ul>
		MaterialNumber: Required, String. Unique ID for the material (item).      Status: Required, String. Status for the operation to return a document URL for this combination of participant and material. If the ErrorMessage element is empty, this is displayed for the event manager in the Info field for the combination of participant and material but is not visible to participants.

Element	Required	Type and Description
Supplier	Yes	Complex type that contains information about the participant. Contains the following elements:
		<ul> <li>ContactEmailAddress: Required, string. Email address of the participant.</li> <li>ContactName: Required, string. Name of the participant.</li> <li>OrganizationId: Required, string. System ID of the supplier organization for the participant.</li> <li>UniqueName: Required, string. Unique name of the supplier organization for the participant.</li> <li>VendorKeys: Required, complex type that comprises the vendor compound key (a uniform identifier across all SAP Ariba solutions) for the participant's organization. It contains the following elements:         <ul> <li>BusinessSystemId: Required, string. Ariba Network uses the Business System ID value to determine the correct ERP system to use when buyers have a multiple ERP system integration.</li> <li>LocationId: Required, string. Maps to a field in Oracle and Peoplesoft ERP systems. Not used in SAP ERP systems.</li> <li>SiteId: Required, String. The ID of the vendor location.</li> <li>VendorId: Required, string. Ariba Network vendor ID for the supplier. The vendor identifier in your organization's backend ERP system, sometimes called a supplier private ID.</li> </ul> </li> </ul>

# Туре

Element	Required	Type and Description
Туре	Yes	String. Specifies the event type.
		Use the value RFx for RFI and RFP events.

# Uniqueld

Element	Required	Type and Description
UniqueId	Yes	String. Specifies a unique ID for the event, used by the DocumentURLOut-Bound and DocumentStatusChangeNotification web services.  Use this value to correlate DocumentURLOutBound and DocumentStatusChangeNotification requests.

#### **Download RFX Awards**

The Download RFX Awards web service is an inbound service that enables you to download an RFX award specified by its system ID. To download all RFX awards created within a given time period, use the Download RFX Awards with Filters (Download RFX Awards with Filters [page 82]) web service.

The Download RFX Awards web service receives AwardDownloadRequest messages and responds with AwardDownloadReply messages. Each AwardDownloadReply message contains an award document CSV file, base64 encoded.

## **Site Configuration Options**

By default, date fields (Date\_Field and CalendarDate\_Field type) exported for the RFX award are listed in the time zone for the SAP Ariba server (such as GMT -8). To adjust the exported date fields for your time zone, your SAP Ariba Customer Support Administrator can set the following site configuration option:

Application.ACM.TimeZoneIDForExportExcelByWebService

To set this option, please have your Designated Support Contact log a service request and an SAP Ariba Customer Support representative will follow up to complete the request.

## **AwardDownloadRequest Elements**

#### WSAwardExportInputBean\_Item

A WSAwardExportInputBean\_Item element contains an item element, where each item element contains the following child element:

Element	Required	Type and Description
RfxInternalId	Yes	String. Specifies the system ID of the RFX document to be downloaded. For example, Doc12345.
RfxName	No	Deprecated. This value is no longer used.

## **AwardDownloadReply Elements**

#### WSAwardExportOutputBean

A WSAwardExportOutputBean\_Item element contains an item element, where each item element contains the following child elements:

Element	Type and Description
AwardDocument	XSD base64Binary (string with base64-encoded data). Contents of the award document (CSV file), base64 encoded.
ErrorMessage	String. Message (error or confirmation) returned by the web service.
MimeType	String. MIME encoding type used for the award document.
Status	Integer. Return status. 0 indicates success.

## **Download RFX Awards with Filters**

The Download RFX Awards with Filters web service is an inbound service that enables you to download all RFX awards created within a given time period. To download an RFX award as specified by ID, use the Download RFX Awards (Download RFX Awards [page 81]) web service.

You can also use this web service to export award and scenario data for partially awarded events if automatic event completion is disabled (the site configuration option

Application.AQS.AutoEventCompletionWhenAllItemsAwarded is set to No; the default value is Yes) by sending a request with IncludePendingEvents set to true.

This web service receives RFXAwardExportWSRequest messages and responds with RFXAwardExportWSReply messages.

# RFXAwardExportWSRequest Elements

 $\label{thm:contains$ 

# WSRFXA ward List Export Input Bean

Element	Required	Type and Description
FromDate	No	XSD DateTime. Start date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports all RFX awards created after the start of the FromDate and before the start of the ToDate. RFX awards created after the start of the ToDate are excluded.
		You can include the hours, minutes, and seconds values for the FromDate and ToDate elements in the date range by having SAP Ariba set the site configuration option
		Application.Messaging.Channels.WS.IncludeTimePorti onToParseDate to Yes. For more information, see Site Configuration Options for Integration Services [page 150].
		If this element is not specified, a wildcard (any date) is used as the FromDate.
		All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).
IncludePendingEvents	No	Boolean. If true and automatic event completion is disabled (the site configuration option Application.AQS.AutoEventCompletionWhenAllItemsAwa rded is set to No; the default value is Yes), the response includes scenario and award data for all events that have awards created within the FromDate-ToDate range, even if the events are still in the Pending Selection state.
		If this element is true and automatic event completion is disabled, and awards are created for an event within multiple date ranges, it is possible to receive multiple responses with data for the same event.
ToDate	No	XSD DateTime. End date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports entries for all RFX awards that were created after the start of the FromDate and before the start of the ToDate. RFX awards created after the start of the ToDate are excluded.
		If this element is not specified, a wildcard (any date) is used as the ToDate.
		All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).

#### RFXAwardExportWSReply Elements

The RXAwardExportWSReply contains a WSRFXAwardListExportOutputBean\_Item, which contains a WSRFXAwardListExportOutputBean.

Element	Type and Description
AwardDocumentList	Contains a sequence WSRFXAwardSingleOutputBean items. See WSRFXAward-SingleOutputBean [page 84].
ErrorMessage	String. Message (error or confirmation) returned by the web service.
MimeType	String. MIME encoding type used for the award document.
Status	Integer. Return status. 0 indicates success.

#### **WSRFXAwardSingleOutputBean**

An WSRFXAwardSingleOutputBean contains one item element for each RFX award. Each item element contains the following subelements:

Element	Type and Description
AwardFile	XSD base64Binary (string with base64-encoded data). A ZIP file that contains an award document file in CSV format (RFXAward_docId.csv), base64 encoded.
DocumentId	String. Document ID of the event for the award.
DocumentName	String. Document name of the event for the award.

# **Export RFX Awards**

Use the Export RFX Awards web service to export RFX awards.

The Export RFX Awards web service sends RFXAwardExportRequest messages and responds with RFXAwardExportReply messages. Each RFXAwardExportRequest message contains one award document CSV file, base64 encoded. SAP Ariba uses this web service for the RFXAwardExport scheduled task to export RFX awards to an external system. The RFXAwardExport task sends each award in a separate request. This task runs every 24 hours. The first time the task runs, it exports all RFX awards that have been awarded since the parameter was enabled. On subsequent runs, the task exports all RFX awards that have been awarded since the last run.

The Export RFX Awards web service uses an outbound integration end point and requires the site configuration option Application.AQS.RFX.EnableWSAwardPush to be enabled. For more information, see Enabling Export RFX Awards Tasks [page 24].

You can configure users to receive email notifications when the Export RFX Awards web service fails. For more information, see Configuring Email Notifications for Outbound Web Services [page 24].

## **RFXAwardExportRequest Elements**

#### WSRFXAwardExportOutputBean\_Item

A WSRFXAwardExportOutputBean\_Item element contains an item element, where each item element contains the following child elements:

Element	Type and Description
Award	XSD base64Binary (string with base64-encoded data). Contents of the award document (CSV file), base64 encoded.
DocumentId	String. Unique system (document) ID for the event.
DocumentName	String. Name of the event.

#### RFXAwardExportReplyElements

#### WSRFXAwardExportInputBean

Element	Required	Type and Description
Message	Yes	String. Message (error or confirmation) returned by the client. Use Success to indicate that there were no errors.
Status	No	Integer. Return status. Return 0 to indicate that there were no errors.

## **Import Sourcing Event**

Use the Import Sourcing Event web service to create or update an event in an existing sourcing project. To create a sourcing event as a quick project when using SAP Ariba Sourcing Pro or as an event when using SAP Ariba Sourcing Basic, you must use the Import Sourcing Project web service with the Import Sourcing Event web service. This procedure is described in Creating a Sourcing Event without a Full Sourcing Project [page 122].

When creating a sourcing event in a full project, you can create the event from an unused Document Choice document (which acts as a placeholder) or you can create an ad hoc sourcing event (a sourcing event that is not created from a Document Choice document).

The Import Sourcing Event web service receives EventImportRequest messages and responds with EventImportReply messages.

If you are creating an event, you must specify the system ID of the document template to use for creating the project. If you are updating the header fields of an event, the SAP Ariba web service retains the existing values for any elements that you do not include or for which you do not specify a value.

# **EventImportRequest Elements**

## WSRFXDocumentInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.
		Valid values:
		Create. Creates an event from an unused Document Choice document in the full sourcing project
		CreateAdhoc. Create an event without using a Document Choice document in the full sourcing project.
		Update. Update the contents of an existing event.
Attachments	Yes	XSD base64Binary (string with base64-encoded data). File attachments for the event, saved in a ZIP file and base64 encoded.

Element	Required	Type and Description
Contents	Yes	XSD base64Binary (string with base64-encoded data). The contents can be:  • An Excel file • A ZIP file containing the CSV files that correspond to sheets in an Excel file for an event. The CSV files can be:  • Conditions.csv • Content.csv • Content.csv • Participants.csv • Participants.csv • Participants.csv • Participant Initial Values.csv • Pricing.csv • Rules.csv • Terms.csv The files required depend on the event you are creating. At a minimum, the ZIP file must contain a Participants.csv and a Pricing.csv file; auction events also require a Terms.csv file.  To create a value for this element, you can export the contents of an existing event to a Microsoft Excel file and edit the file. If you want to create CSV files from an Excel event file: • Remove the instructions in the sheets. • Save the appropriate Excel sheets as CSV files (one sheet per CSV file). Use the sheet name to form the CSV file name. • If you are including a Rules Excel sheet or Rules.csv file and specifying values for dates (Response start date or Due date), use the correct syntax for the date. • In a Rules Excel sheet, use the following custom number syntax (if you create the Excel file by exporting an existing event, SAP Ariba creates the date cells with this syntax):  m-d-yyyy h:mm For example:  4/25/2014 16:00 • In a Rules.csv file, use the following syntax:  yyyy-mm-dd hh: mm: ss For example:  2014-04-25 16:00:00  Specify the time in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00). The user time zone and any time zone name appended to the date value are ignored. • Enclose the CSV files in a ZIP file.  After you have an Excel or ZIP file, encode the file using a base64-encoding utility.  For more information about exporting the contents of an existing event to Microsoft Excel, see the .

Element	Required	Type and Description
DocumentId	Yes	String. Specifies the document ID for the event, such as Doc1234. Specify the value according to the value of the Action element.
		<ul> <li>If the Action is Create or CreateAdhoc, do not specify a value (the web service ignores any value specified).</li> <li>If the Action is Update, specify the ID of the event to be updated. You must specify a value for DocumentId or DocumentName.</li> </ul>
DocumentName	Yes	String. Specifies the event name. Specify the value according to the value of the Action element.
		<ul> <li>If the Action is Create, specify the name of the existing Document Choice document to use for creating the event.</li> <li>If the Action is CreateAdhoc, specify the name of the event to be created.</li> <li>If the Action is Update, specify the name of the event to update. If you are updating an event. you identify the event by specifying the DocumentName and the WorkspaceId. Alternatively, if you know the document ID (specified in the UI), you can identify the event using the DocumentId element.</li></ul>
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.  If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
RFXDocumentHeaderFields	No	RFXDocument_WSProjectImport. Event header fields. See EventHeader-Fields [page 89].
ReplaceEventContent	Yes	Boolean. Specifies if the value of the Contents element replaces the existing contents for the event.
TemplateId	Yes	String. System ID that specifies the template to use to create the event (for example, SYS0107). This is the ID of the document template within the project template (not the ID of the project template). For information about determining document template IDs, see Web Service Examples: Creating Sourcing Events [page 121].
		If the Action element is Update, this element is ignored.

Element	Required	Type and Description
WorkspaceId	Yes	String. Specifies the sourcing project (workspace) ID in which the event will be created or updated.
		The value for this element can be null if DocumentId is not null.
		For information about determining workspace IDs for sourcing projects, see Web Service Examples: Creating Sourcing Events [page 121].

#### **EventHeaderFields**

Element	Required	Type and Description
BaseLanguage	No	Complex type. This element has the following child element:
		UniqueName (optional string): Specifies the language in which the project is displayed if there is no translation for the project in the user's preferred language. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].
Commodity	No	Complex type. The commodity for the event. This element contains a sequence of zero or more items with the following child elements:
		<ul> <li>Domain (required string): Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).</li> <li>UniqueName (required string): Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid commodity ID values, use the Export Commodity Codes task.</li> </ul>
Currency		Complex type. The type of currency used in the event. This element has the following child element:
		UniqueName (required string): Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
Description	No	Complex type. This element has the following child element:
		DefaultStringTranslation (optional string): Description for the project.
Title	No	Complex type. This element has the following child element:  • DefaultStringTranslation (optional string): Event title.

#### **EventImportReply Elements**

#### **WSRFXDocumentOutputBean**

Element	Type and Description
Contents	XSD base64Binary (string with base64-encoded data). This element is not sent in Import Sourcing Event responses.
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. 0 indicates success.

# **Import Sourcing Project**

Use the Import Sourcing Project web services to create a sourcing project or to update the project header fields of an existing sourcing project. If you are an SAP Ariba Sourcing Basic user, use the Import Sourcing Project web service to create a sourcing event, then use the Import Sourcing Event web service to add (update) the event contents, as described in Creating a Sourcing Event without a Full Sourcing Project [page 122].

The Import Sourcing Project web service receives SourcingProjectImportRequest messages and responds with SourcingProjectImportReply messages.

If you are creating a full sourcing project, you must specify the system ID of the template to use for creating the project. If you are creating a quick sourcing project or an event, specify the template ID for the document of the sourcing event.

If you are creating or updating a project and your configuration does not contain any custom fields, you must omit the custom element in the first level immediately below the ProjectHeaderFields element.

If the organizations that can be selected for the Affected Parties field do not contain any custom fields, you must omit the custom element contained in the AffectedParties element. Alternatively, you can omit the entire AffectedParties element.

If you create or update a sourcing project, the SourcingProjectImportReply includes a workspace ID and URL (web jumper) to the created or updated project.

If you are updating a project, the SAP Ariba web service retains the existing values for any project header field elements that you do not include or for which you do not specify a value.

# SourcingProjectImportRequest Elements

# WSourcingProjectInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.  Valid values:  Create. Creates a new project.  Update. Update project fields of an existing project.
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action. When creating a project, the SAP Ariba web service creates the project with this user as the owner if the Owner element is not specified.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.  If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
ParentWorkspaceId	No	String. The workspace ID (for example, CW12345) of the parent project for the contract project. Specifying a value in this field creates the workspace as a subproject of the specified parent.
ProjectHeaderFields	No	ContractRequest_WSProjectImport or ContractWorkspace_WSProjectImport. Project header fields. See ProjectHeaderFields [page 58].
TemplateId	Yes	String. System ID that specifies the template to use to create the project, (for example, SYS0052).  If the Action element is Update, this element is ignored.
WorkspaceId	Yes	String. Specifies the workspace ID. When using the service to create a project, do not specify a value. If the SAP Ariba web service successfully creates a project, it returns the system-generated workspace ID in the the WorkspaceId element of the response.  If you are updating a contract project, you must use the WorkspaceId element or the ContractId element to identify the project you want to update.
		For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].

# **ProjectHeaderFields**

Element	Required	Type and Description
BaseLanguage	No	Complex type. This element has the following child element:
		UniqueName (optional string): Specifies the language in which the project is displayed if there is no translation for the project in the user's preferred language. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].
BaselineSpend	No	Complex type. The amount you expect to spend for all of the goods and services associated with the project. This element has the following child elements:
		Amount (optional decimal): Decimal amount.
		<ul> <li>Currency (optional complex type): Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).</li> </ul>
Client	No	Complex type. The departments in your company for which the project is applicable. This element contains a sequence of zero or more of the following item:
		DepartmentID (optional string): Specifies the system ID for the department. To determine valid values, use the Export Departments task.
Commodity	No	Complex type. The commodity for the project. This element contains a sequence of zero or more items with the following child elements:
		<ul> <li>Domain (required string): Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).</li> <li>UniqueName (required string): Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid commodity ID values, use the Export Commodity Codes task.</li> </ul>
ContractId	No	String. Specifies the contract's unique ID. This can be the unique ID used in the third-party system. If you are creating a contract project, the system creates the project and assigns this contract ID if it is not already in use; if you do not specify a value, the SAP Ariba web service assigns the system-generated workspace ID as the contract ID.
		If you are updating a project, you must use the ContractId element or
		the WorkspaceId element to identify the project you want to update.
		For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].
ContractEffectiveDate	Yes	XSD DateTime. The date when the terms of the contract go into effect.
Currency		Complex type. The type of currency used in the project. This element has the following child element:
		UniqueName (optional string): Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).

Element	Required	Type and Description
Description	No	Complex type. This element has the following child element:
		DefaultStringTranslation (optional string): Description for the project.
ExecutionStrategy	No	String. Specifies the strategy for achieving the goals of the sourcing project.
		Valid values:
		No Choice
		Online Sourcing
		Offline Sourcing
		Supplier Performance
		• Contract
		Low Cost Country Sourcing
		• Renewal
Owner	No	Complex type. Specifies the owner for the project. If you are creating a project and do not include this element, the project is created with the user specified in the OnBehalfUserId element as the owner. This element has the following child element:
		UniqueName (optional string): Unique name (for example, jsmith) of the owner.
PlannedEventType	No	String. A number representing the planned event type, where:
		1 represents RFI
		2 represents RFP
		4 represents Auction
		6 represents ForwardAuction
ProjectReason	No	String. Specifies why the project will be executed. It is used for reporting purposes only.
		Valid values:
		No Choice
		Contract Expiring
		Meet Savings Goals
		New Requirement
		New Component/Reengineer
Region	No	Complex type. The region for the project. This element contains a sequence of zero or more items with the following child element:
		Region (optional string): Specifies the region. To determine valid values, use the Export Regions task

Element	Required	Type and Description
SourcingMechanism	No	String. Specifies the method used to execute the project (the Resourced By field).
		Valid values:
		• No Choice
		SAP Ariba Resources
		Internal Resources
		Other
Title	No	Complex type. This element has the following child element:
		DefaultStringTranslation(optional string): Project title. If
		this is a quick sourcing project or an SAP Ariba Sourcing Basic event, this is the event (document) name.
custom	No	Complex type. This element is used for custom project header fields. For more information, see Custom Body Elements for Web Services [page 30].

## SourcingProjectImportReply Elements

#### WSSourcingProjectOutputBean

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. 0 indicates success.
Url	String. URL to the created or updated project.
WorkspaceId	String. Unique, system-generated ID for the created or updated project.

# **SOAP Web Service for Knowledge Projects**

You can use the Import Knowledge Project web service to manage knowledge projects.

# **Import Knowledge Project**

Use the Import Knowledge web service to create knowledge projects or to update knowledge project header fields.

The Import Knowledge Project web service receives KnowledgeProjectImportRequest messages and responds with KnowledgeProjectImportReply messages.

If you are creating a knowledge project, you must specify the system ID of the template to use for creating the project.

The KnowledgeProjectImportReply includes a URL (web jumper) to the created or updated project.

If you are updating a knowledge project, the SAP Ariba web service retains the existing values for any project header field elements that you do not include or for which you do not specify a value.

# **KnowledgeProjectImportRequest Elements**

## WSKnowledgeInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.
		Valid values:
		Create. Creates a new project.
		Update. Update project fields of an existing project.
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action. When creating a project, the SAP Ariba web service creates the project with this user as the owner if the Owner element is not specified.
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
ParentWorkspaceId	No	String. The workspace ID (for example, CW12345) of the parent project for the knowledge project. Specifying a value in this field creates the new project as a subproject of the specified parent.
ProjectHeaderFields	No	DynamicWorkspace_WSProjectImport. Project header fields. See ProjectHeaderFields [page 96].
TemplateId	Yes	String. System ID that specifies the template to use to create the project (for example, SYS0052).
		If the Action element is Update, this element is ignored.
WorkspaceId	Yes	String. Specifies the workspace ID. When using the service to create a project, do not specify a value. If the SAP Ariba web service successfully creates a project, it returns the system-generated workspace ID in the the WorkspaceId element of the response.
		If you are updating a project, you must use the WorkspaceId element to
		identify the project you want to update.

# **ProjectHeaderFields**

Element	Required	Type and Description
BaseLanguage	No	Complex type. This element has the following child element:  • UniqueName (optional string): Specifies the language in which the project is displayed if there is no translation for the project in the user's preferred language. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].
Client	No	Complex type. The departments in your company for which the project is applicable. This element contains a sequence of zero or more of the following item:  • DepartmentID (optional string): Specifies the system ID for the department. To determine valid values, use the Export Departments task.
Commodity	No	Complex type. The commodity for the project. This element contains a sequence of zero or more items with the following child elements:  • Domain (required string): Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).  • UniqueName (required string): Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid commodity ID values, use the Export Commodity Codes task.
Description	No	Complex type. This element has the following child element:  • DefaultStringTranslation (optional string): Description for the project.
Region	No	Complex type. The region for the project. This element contains a sequence of zero or more items with the following child element:  Region (optional string): Specifies the region. To determine valid values, use the Export Regions task
Title	No	Complex type. This element has the following child element:  • DefaultStringTranslation (optional string): Workspace title.

# **KnowledgeProjectImportReply Elements**

## WSKnowledgeProjectOutputBean

Element	Type and Description	
ErrorMessage	String. Message (error or confirmation) returned by the web service.	
Status	Integer. Return status. 0 indicates success.	
Url	String. URL to the created or updated project.	

Element	Type and Description
WorkspaceId	String. Unique, system-generated ID for the created or updated project.

## **SOAP Web Services for Documents**

You can use the following web services to manage documents:

- Download Document [page 97] (this web service is supported for file-based documents only)
- Download Document IDs [page 98] (this web service is supported for sales form documents only)
- Import Document [page 100] (this web service is supported for file-based documents only)
- Import Form Document [page 101] (this web service is present but not supported)

## **Download Workspace Documents**

The Download Workspace Documents web service is an inbound web service that enables you to download a document. The Download Workspace Documents web service is supported for any file document (document loaded to a project from a file), including:

- Assembled contract documents (Main Agreement and Contract Addendum documents)
- Order forms (order forms do not contain data entered using fields in the SAP Ariba user interface)

The Download Workspace Documents web service is not supported for the following document types:

- Contract Terms
- Form files (any form file with data entered using fields in the SAP Ariba user interface), including savings forms

The Download Workspace Documents web service receives <code>DocumentDownloadRequest</code> messages and responds with <code>DocumentDownloadReply</code> messages.

## **DocumentDownloadRequest Elements**

The DocumentDownloadRequest contains a WSDocumentDownloadInputBean\_Item, which contains a WSDocumentDownloadInputBean.

## WSDocument Download Input Bean

Element	Required	Type and Description
DocumentId	Yes	String. Document ID of the document to download, such as Doc1234.

## **DocumentIdsDownloadReply Elements**

The DocumentDownloadReply contains a WSDocumentDownloadOutputBean\_Item, which contains a WSDocumentDownloadOutputBean.

#### WSDocumentDownloadOutputBean

Element	Type and Description
DocumentFile	XSD base64Binary (string with base64-encoded data). A ZIP file that contains the downloaded document, base64 encoded.
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. 0 indicates success.

#### **Download Document IDs**

The Download Document IDs web service is an inbound web service that enables you to download the IDs of all documents modified or created within a given time period.

#### i Note

The Download Document IDs web service is supported only for order form documents.

The Download Document IDs web service returns a string that contains a comma-separated list of document IDs. Each document ID can be sent in a Download Document web service request.

## **DocumentIdsDownloadRequest Elements**

The DocumentIdsDownloadRequest contains a WSDocumentIdsDownloadInputBean\_Item, which contains a WSDocumentIdsDownloadInputBean.

#### WSDocument Ids Download Input Bean

Element	Required	Type and Description
DocumentStatus	Yes	String. Limits the document IDs downloaded to documents with the specified status.  Valid values: Draft or Published.

Element	Required	Type and Description
FromDate	Yes	XSD DateTime. Start date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports the IDs for all documents modified or created after the start of the FromDate and before the start of the ToDate. Documents modified or created after the start of the ToDate are excluded.
		You can include the hours, minutes, and seconds values for the FromDate and ToDate elements in the date range by having SAP Ariba set the site configuration option
		Application.Messaging.Channels.WS.IncludeTimePortionToParseDate to Yes. For more information, see Site Configuration Options for Integration Services [page 150].
		All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).
ToDate	Yes	XSD DateTime. End date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports IDs for all documents created or modified after the start of the FromDate and before the start of the ToDate. Documents modified or created after the start of the ToDate are excluded.
		All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).
Туре	Yes	String. A comma-separated list of document types for which IDs will be downloaded.
		Valid value: OrderForm.

# **DocumentIdsDownloadReply Elements**

 $\label{thm:contains} The \ {\tt DocumentIdsDownloadOutputBean\_Item}, which \ contains \ a \ {\tt WSDocumentIdsDownloadOutputBean\_Item}, which \ contains \ a \ {\tt WSDocumentIdsDownloadOutputBean}.$ 

## WSDocument Ids Download Output Bean

Element	Type and Description	
DocumentIDs	String. A sequence of document IDs, delimited by commas. If no documents meet the date range and type criteria, an empty string is returned.	
ErrorMessage	String. Message (error or confirmation) returned by the web service.	
Status	Integer. Return status. 0 indicates success.	

# **Import Document**

Use the Import Document web service to add documents to existing projects. You can also use this web service to replace an existing document in a project.

#### i Note

The Import Document web service is supported only for project documents that are not assigned to a specific subtype or use. For example, you cannot use the Import Document web service for contract Main Agreement or Contract Addendum documents, and you cannot use this web service for events.

## **DocumentImportRequest Elements**

## WSDocumentInputBean

Element	Required	Type and Description
Action	Yes	String. Specifies the action for the task.  Valid values:  Create. Adds a new document to the project.  Update. Replaces the contents of an existing document in a project.
Contents	Yes	XSD base64Binary (string with base64-encoded data). File contents, base64 encoded.
DocumentId	Yes	String. Specifies the ID for the document, such as Doc1234. Specify the value according to the value of the Action element.
		<ul> <li>If the Action is Create, do not specify a value (the web service ignores any value specified).</li> <li>If the Action is Update, specify the ID of the document to be updated. You must specify a value for DocumentId or DocumentName.</li> </ul>
DocumentName	Yes	String. Specifies the document name. Specify the value according to the value of the Action element.
		<ul> <li>If the Action is Create, specify the name of the document to be created.</li> <li>If the Action is Update, specify the name of the document to update. You must specify a value for DocumentId or DocumentName.</li> </ul>
		Use a forward slash (/) to delimit folder names. For example,  MyFolder/MyFile.txt creates or updates the file MyFile.txt
		in the folder MyFolder under the Documents area for the project. If MyFolder does not already exist, the web service creates it for you.
OnBehalfUserId	Yes	String. Specifies the user ID of the user for whom the SAP Ariba web service will perform the action.

Element	Required	Type and Description
OnBehalfUserPasswordAdap ter	No	String. Specifies the password adapter to authenticate the user in the OnBehalfUserId element.
		If you are not using a custom password adapter, you can omit this element or leave the value unspecified and the web service will use the default password adapter.
WorkspaceId	Yes	String. Specifies the ID of the project (workspace) in which the document will be created or that contains the document to be updated.

## **DocumentImportReply Elements**

#### **WSDocumentOutputBean**

Element	Type and Description	
DocumentId	String. Unique system ID for the created or updated document.	
ErrorMessage	String. Message (error or confirmation) returned by the web service.	
Status	Integer. Return status. 0 indicates success.	

# **Import Form Document**

This service is not supported.

# **SOAP Web Services for Managing Users, Organizations, and Suppliers**

You can use the following web services to manage users, organizations, and suppliers:

- Add Users to Group [page 102]
- remove user from group [page 102]
- Export Organizations [page 104]
- Export Supplier Profiles [page 105]
- Import Organizations [page 107]
- Import Supplier Profiles [page 110]
- Import Users [page 111]
- Remove Organizations [page 113]
- Remove Users [page 114]

# **Add Users to Group**

Use the Add Users to Group web service to add one or more existing users to one or more system groups.

The Add Users to Group web service receives AddUsersToGroupRequest messages and responds with AddUsersToGroupReply messages.

## AddUsersToGroupRequest Elements

#### Group\_WSAddUsersToGroup\_Item

A  $Group_WSAddUsersToGroup_Item$  can contain a sequence of one or more item elements, where each item element contains the following child elements:

Element	Required	Type and Description
UniqueName	Yes	String. Unique name of the group, such as Contract Agent.
Users	Yes	Complex type. This element contains a sequence of zero or more of the following child elements:  • PasswordAdapter (required string). Specifies the password adapter to authenticate the user, such as SourcingSupplierUser or PasswordAdapter1.  • UniqueName (required string). Unique name of the user to be added to the group, such as bsmith.

## AddUsersToGroupReply Elements

## ${\bf AddUsers To Group Reply}$

Element	Type and Description
Status	String. Return status.

# remove user from group

remove user from group

Use the remove user from group web service to remove one or more existing users from one or more system groups.

The remove user from group web service receives RemoveUsersFromGroupRequest messages and responds with RemoveUsersFromGroupReply messages.

#### In this section:

RemoveUsersFromGroupRequest Elements [page 103]

RemoveUsersFromGroupReply Elements [page 103]

## RemoveUsersFromGroupRequest Elements

#### Group\_WSRemoveUsersFromGroup\_Item

#### RemoveUsersFromGroupRequest Elements

A Group WSRemoveUsersFromGroup Item can contain a sequence of one or more item elements, where each item element contains the following child elements:

Element	Required	Type and Description
UniqueName	Yes	String. Unique name of the group, such as Contract Agent.
Users	Yes	Complex type. This element contains a sequence of zero or more of the following child elements:  • PasswordAdapter (required string). Specifies the password adapter to authenticate the user, such as SourcingSupplierUser or PasswordAdapter1.  • UniqueName (required string). Unique name of the user to be removed from the group, such as bsmith.

## RemoveUsersFromGroupReply Elements

#### RemoveUsersFromGroupReply

#### RemoveUsersFromGroupReply Elements

Element	Type and Description
Status	String. Return status.

# **Export Organizations**

The Export Organizations web service is an inbound service that enables you to export information about the organizations configured for your site. This web service receives OrganizationExportWSRequest messages and responds with OrganizationExportWSReply messages.

# **OrganizationExportWSRequest Elements**

The OrganizationExportWSRequest contains a WSOrganizationExportInputBean\_Item, which contains a WSOrganizationExportInputBean.

#### WSOrganizationExportInputBean

Element	Required	Type and Description
FromDate	No	XSD DateTime. Start date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports all organizations created or updated after the start of the FromDate and before the start of the ToDate. Organizations created or updated after the start of the ToDate are excluded.
		You can include the hours, minutes, and seconds values for the FromDate and ToDate elements in the date range by having SAP Ariba set the site configuration option
		Application.Messaging.Channels.WS.IncludeTimePortionToParseDate to Yes. For more information, see Site Configuration Options for Integration Services [page 150].
		If this element is not specified, a wildcard (any date) is used as the FromDate.
		All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).
IncludeInactive	No	String. Specifies if inactive organizations are included in the output.
		Valid values: false, true. The default is false (if this element is not specified, the value false is used).
		If true, profiles for inactive suppliers are included in the output and the output contains the following new columns:
		Active (Yes Or No)
		<ul><li>DateCreated</li><li>DateUpdated</li></ul>

Element	Required	Type and Description
ToDate	No	XSD DateTime. End date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports entries for all organizations that were created or last updated after the start of the FromDate and before the start of the ToDate. Organizations created or updated after the start of the ToDate are excluded.  If this element is not specified, a wildcard (any date) is used as the ToDate.  All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).

#### **OrganizationExportWSReply Elements**

The OrganizationExportWSReply contains a WSOrganizationExportOutputBean\_Item, which contains a WSOrganizationExportOutputBean.

#### WSOrganizationExportOutputBean

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
MimeType	String. MIME encoding type used for the award document.
OrganizationFile	XSD base64Binary (string with base64-encoded data). A base64-encoded ZIP file that contains an Organization.csv file. The Organization.csv file contains one entry for each organization that meet the filter criteria. The columns are described in the ExportOrganizations sheet of the Data Dictionary.
Status	Integer. Return status. 0 indicates success.

# **Export Supplier Profiles**

Use the Export Supplier Profiles web service to export supplier profiles. This web service responds with a base64-encoded CSV file that contains all supplier profiles. The profiles include responses to the Supplier Profile Questionnaire (SPQ), except responses to questions with the **Answer Type** set to **Attachment**.

#### i Note

The number of columns and column positions in the exported CSV might change because of changes to the SPQ. These data changes bypass integration migration management processing and occur without being accepted in the integration migration management utility. When processing the exported CSV, use the column title to determine column contents; do not use the column number to determine column contents.

The Export Supplier Profiles web service receives SupplierProfileExportRequest messages and responds with SupplierProfileExportReply messages.

# **SupplierProfileExportRequest Elements**

## WSSupplierProfileExportInputBean\_Item

A WSSupplierProfileExportInputBean\_Item element contains an item element, where each item element contains the following child elements:

Element	Required	Type and Description
FromDate	No	XSD DateTime. Start date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports entries for all supplier profiles that were last updated after the start of the FromDate and before the start of the ToDate. Supplier profiles updated after the start of the ToDate are excluded.  You can include the hours, minutes, and seconds values for the FromDate and ToDate elements in the date range by having SAP Ariba set the site configuration option  Application.Messaging.Channels.WS.IncludeTimePortionToParseDate to Yes. For more information, see Site Configuration  Options for Integration Services [page 150].  If this element is not specified, a wildcard (any date) is used as the FromDate.  All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).
RealmName	Yes	Name of your realm (site).
ToDate	No	XSD DateTime. End date for a date range. The web service converts this to a calendar date (it strips the hours, minutes, and seconds) and exports entries for all supplier profiles that were last updated after the start of the FromDate and before the start of the ToDate. Supplier profiles updated after the start of the ToDate are excluded.
		If this element is not specified, a wildcard (any date) is used as the ToDate.
		All dates are relative to the date in the SAP Ariba OnDemand time zone of the server used for your site; by default, this is US Pacific time (UTC-08:00).

## SupplierProfileExportReply Elements

#### WSSupplierProfileExportOutputBean\_Item

A WSSupplierProfileExportOututBean\_Item element contains an item element, where each item element contains the following child elements:

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
MimeType	String. MIME encoding type used for the award document.
Status	Integer. Return status. O indicates success.
SupplierProfileFile	XSD base64Binary (string with base64-encoded data). A supplier profile file (CSV file), base64 encoded.

# **Import Organizations**

Use the Import Organizations web service to add (or update) one or more supplier or customer organizations to SAP Ariba. If an organization is created as an unapproved organization (the IsOrgApproved element is 0), the organization approval process is triggered when certain business parameters are met at the web service level and customer site level.

The Import Organizations web service receives OrganizationImportRequest messages and responds with OrganizationImportReply messages.

## **Site Configuration Options for Organization Approvals**

The functionality for approving organizations created as unapproved organizations is controlled by the following site configuration option, which SAP Ariba sets for you.

#### ${\bf Application. SIPM. Supplier Organization Approval Process}$

The Application. SIPM. SupplierOrganizationApprovalProcess option determines the category of profile questions that must be answered for an organization created with IsOrgApproved set to 0 (Unapproved) to initialize the organization approval process. When the organization approval process is initialized, one of the following events occurs:

- If your site has SAP Ariba Supplier Information Management (SIM) or SAP Ariba Supplier Information and Performance Management (SIPM) and this is a managed organization, the organization approval task for the supplier workspace starts (the **You need to approve a new organization registration** task starts).
- If your site has SIM or SIPM but this is not a managed organization, the **Approve** button on the organization's **Profile** tab is enabled.

• If your site does not have SIM or SIPM, the **Approve** button on the organization's **Profile** tab is enabled.

Possible Application.SIPM.SupplierOrganizationApprovalProcess values:

- Manual (default value): When the organization (or supplier workspace) is created, the organization approval process is initialized.
- Relevant Questions Answered: If OrganizationSource is Internal, the organization approval process
  is initialized after all Owner Required questions are answered in the profile questionnaire. If
  OrganizationSource is External, the organization approval process is initialized after all Participant
  Required questions (questions that must be answered by suppliers) are answered in the profile questionnaire.
  If OrganizationSource is null, the organization approval process is initialized after all Owner Required and
  Participant Required questions are answered.
- All Required Questions Answered: The organization approval process is initialized after all Owner Required questions and all Participant Required questions are answered in the profile questionnaire.

## **OrganizationImportRequest Elements**

#### Organization\_WSOrganizationImport\_Item

An Organization\_WSOrganizationImport\_Item element can contain a sequence of one or more item elements, where each item element contains the following child elements:

Element	Required	Type and Description
BusinessContacts	No	Complex type. This element contains a sequence of zero or more of the following child elements:  • EmailAddress (required string). The user's business email address, specified as a user fully-qualified domain name, such as user1@example.com.
		<ul> <li>custom (optional complex type). This element is used for custom project header fields. For more information, see Custom Body Elements for Web Services [page 30].</li> </ul>
Categories	No	Complex type. This element specifies commodity codes and contains a sequence of zero or more of the following child elements:  Domain (required string). Specifies the domain or organization that defines the values for the commodity code. For most installations, the value will be unspsc (Universal Standard Products and Services Classification).  UniqueName (required string). Specifies the ID for the commodity, such as the numeric commodity code. To determine the valid commodity ID values, use the Export Commodity Codes task.
Contacts	No	Complex type. This element contains a sequence of zero or more of the following child elements:  • PasswordAdapter (optional string). Specifies the password adapter to authenticate the user.  • UniqueName (required string). Specifies the unique name of the user. This user must already exist in the system.

Element	Required	Type and Description
CorporateAddress	Yes	Complex type. This element contains a sequence of zero or more of the following child elements:  Name (optional string). Name used in the mailing address.  PostalAddress (optional complex type). This element contains the following child elements:  City (optional string). Specifies the city.  Country (optional complex type). Specifies the country. This element contains the UniqueName (optional string) child element.  Lines (optional string). Specifies the street address or postal box.  PostalCode (optional string). Specifies the postal code.  State (optional string). Specifies the state or province.  UniqueName (required string). Unique name to identify the postal address.
CorporateEmailAddress	Yes	String. The email address for the organization, specified as a user fully-qualified domain name, such as user1@example.com.
CorporateFax	No	String. The fax number for the organization.
CorporatePhone	No	String. The phone number for the organization.
CorporateURL	No	String. The URL for the organization.
IsCustomer	Yes	Boolean. Specifies if the organization is a customer organization.
IsManaged	Yes	<ul> <li>Integer. Specifies if the supplier is managed (integer). Valid values:</li> <li>0: The supplier is not managed.</li> <li>1 or any other integer greater than 0: The supplier is managed. Your configuration must have Ariba Supplier Information Management or SAP Ariba Supplier Information and Performance Management and a published template for supplier workspace projects to create a managed supplier.</li> </ul>
IsOrgApproved	No	Integer. Specifies the status of the organization. Valid values:      0: The organization is unapproved.     1: The organization is rejected.     2: The organization is approved.     3: The organization is in the process of being registered.     null: The organization is approved.
IsSupplier	Yes	Boolean. Specifies if the organization is a supplier organization.
Name	Yes	String. Specifies the organization name.

Element	Required	Type and Description
OrganizationSource	No	String. Specifies the source of the information about the organization.  Valid values:  Internal: Buyer.  External: Supplier.  null: Source is not specified.  Depending on your site configuration, the OrganizationSource can affect the category of profile questions that must be answered before an approval process is started for the organization. For more information, see Site Configuration Options for Organization Approvals [page 107].
OrganizationType	No	String. Specifies the type of organization.
PreferredCurrency	No	Complex type. Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
PreferredLanguage	No	Complex type. This element has the following child element:  UniqueName (optional string): Specifies the preferred language for the organization. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].
StateOfIncorporation	No	String. Specifies the US state in which the organization is incorporated.
SystemID	Yes	String. Specifies the unique identifier for the organization, such as SID1234. The SystemID is used to index the organizations. If you are updating information about an existing organization, you must specify its current SystemID. If you adding a new organization, do not specify a SystemID that is assigned to an existing organization; if you do, the information you specify will overwrite the information for the existing organization.
custom	No	Complex type. This element is used for custom organization fields. For more information, see Custom Body Elements for Web Services [page 30].

### **OrganizationImportRequest ElementsI**

Element	Type and Description
Status	String. Return status.

# **Import Supplier Profiles**

Use the Import Supplier Profiles web service to import supplier profiles. This web service replaces all supplier profiles with the contents sent in the request. If you are replacing existing content, use the Export Supplier Profile web service or the Supplier Profile export task to create a supplier profile CSV file with the existing data. If you are

loading supplier profiles for the first time, create a template CSV file by choosing the Create Import Template option in the Supplier Profile export task.

The Import Supplier Profiles web service receives SupplierProfileImportRequest messages and responds with SupplierProfileImportReply messages.

### **SupplierImportRequest Elements**

### WSSupplierProfileImportInputBean

Element	Required	Type and Description
Contents	Yes	XSD base64Binary (string with base64-encoded data). A valid supplier profile CSV file, base64 encoded.

### **SupplierImportReply Elements**

#### **WSSupplierProfileImportOutputBean**

Element	Type and Description
ErrorMessage	String. Message (error or confirmation) returned by the web service.
Status	Integer. Return status. 0 indicates success.

### **Import Users**

Use the Import Users web service to add users to existing supplier or customer organizations in SAP Ariba.

The Import Users web service receives <code>UserImportRequest</code> messages and responds with <code>UserImportReply</code> messages.

#### **Site Configuration Option**

By default, users created using the Import Users web service have their time zone set to the time zone for the SAP Ariba server (such as GMT -8). To specify an alternate time zone, your SAP Ariba Customer Support Administrator can set the following site configuration option:

Application.Base.PreferredTimeZoneIDForUser

To set this option, please have your Designated Support Contact log a service request and an SAP Ariba Customer Support representative will follow up to complete the request.

# **UserImportRequest Elements**

### User\_WSUserImport\_Item

A  $User_WSUserImport_Item$  element can contain a sequence of one or more item elements, where each item element contains the following child elements:

Element	Required	Type and Description
BillingAddresses	Yes	Complex type. This element contains a sequence of zero or more item elements, where each item element contains the following child elements:  Name (optional string). Name of the user for the address. Phone (optional string). Phone number for the address. PostalAddress (optional complex type). This element contains the following child elements: City (optional string). Specifies the city. Country (optional complex type). Specifies the country. This element contains the UniqueName (optional string) child element. Lines (optional string). Specifies the street address or postal box. PostalCode (optional string). Specifies the postal code. State (optional string). Specifies the state or province. UniqueName (optional string). Unique name to identify the postal address.
DefaultCurrency	No	Complex type. Contains UniqueName (optional string). Specifies the currency type using the ISO 4217 alphabetic code (for example, USD, EUR, or CNY).
EmailAddress	Yes	String. The user's business email address, specified as a user fully-qualified domain name, such as user1@example.com.
Fax	No	String. The business fax number for the user.
IsTerminated	Yes	Boolean. Indicates if the user is terminated.
LocaleID	No	Complex type. This element has the following child element:  • UniqueName (optional string): Specifies the locale for the user. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].
Name	Yes	String. Specifies the name for the user. For example, Ken Moon.
Organization	Yes	String. Specifies the unique system ID of the organization to which the user will be a added. For example, sid1234.
PasswordAdapter	Yes	String. The password adapter used to authenticate the user. For example, SourcingSupplierUser.
Phone	No	String. Business phone number for the user.

Element	Required	Type and Description
ShipTos	Yes	Complex type. This element contains a sequence of zero or more item elements, where each item element contains the following child elements:  Name (optional string). Name of the user for the address.  Phone (optional string). Phone number for the address.  PostalAddress (optional complex type). This element contains the following child elements:  City (optional string). Specifies the city.  Country (optional complex type). Specifies the country. This
		element contains the UniqueName (optional string) child element.  Lines (optional string). Specifies the street address or postal box.  PostalCode (optional string). Specifies the postal code.  State (optional string). Specifies the state or province.  UniqueName (optional string). Unique name to identify the postal address.
Supervisor	No	Complex type. This element contains the following child elements:  UniqueName (required string). Specifies the unique name of the user's supervisor. The supervisor must already exist in the system.  PasswordAdapter (required string). Specifies the password adapter used to authenticate the supervisor. For example, SourcingSupplierUser
UniqueName	Yes	String. Specifies the unique name for the user.

### **UserImportReply ElementsI**

Element	Type and Description
Status	String. Return status.

# **Remove Organizations**

Use the Remove Organizations web service to remove one or more organizations from your SAP Ariba configuration data.

 $The \ Remove \ Organizations \ web \ service \ receives \ {\tt DeleteOrganizationRequest} \ messages \ and \ responds \ with$  ${\tt DeleteOrganizationReply} \ {\tt messages}.$ 

### **DeleteOrganizationRequest Elements**

### Organization\_WSDeleteOrganization\_Item

A User WSDeleteUser Item can contain a sequence of one or more of the following item elements.

Element	Required	Type and Description
item	No	Organization_WSDeleteOrganization complex type. This element contains the following child element:  • SystemID (required string). Specifies the system ID of the organization to be removed, such as ACM_1234 or sid9999.

### **DeleteOrganizationReply Elements**

Element	Type and Description
status	String. Return status.

### **Remove Users**

Use the Remove Users web service to remove one or more internal or external users from your SAP Ariba configuration data.

The Remove Users web service receives <code>DeleteUserRequest</code> messages and responds with <code>DeleteUserReply</code> messages.

### **DeleteUserRequest Elements**

### User\_WSDeleteUser\_Item

A User WSDeleteUser Item can contain a sequence of one or more of the following item elements.

Element	Required	Type and Description
item	No	User_WSDeleteUser complex type. This element contains a sequence of zero or more items with the following child elements:
		PasswordAdapter (required string). Specifies the password adapter to authenticate the user, such as SourcingSupplierUser or PasswordAdapter1.      UniqueName (required string). Specifies the unique name of the user to be removed, such as bsmith.

# **DeleteUserReply Elements.**

Element	Type and Description
Status	String. Return status.

# **SOAP Web Service Status and Error Message Values**

The following status and error message values can be returned in responses for inbound web services.

Status	Error Message
0	The web service method is successfully executed.
-1	Unknown errors occur during processing.
-2	User has no permission to execute the web service method.
-3	The web service method has not been completely executed.
-4	There is no valid data in the imported file. Please refine your input and try again.
-5	Web service completed but errors occurred when processing the data in the Contents element. Please refine your input and try again.
-2001	The specified project does not contain a terms file.
-2004	The specified document cannot be downloaded. The event is still open and responses cannot be viewed until the event closes. Try again after the event closes.
-6000	The specified project owner does not exist.
-6001	The specified template is not found in the system.
-6002	Create project has encountered problems.
-6003	Update project has encountered problems.

Status	Error Message	
-6004	The specified project is not found in the system.	
-6005	The requested action is invalid.	
-6006	The specified workspace template name is not valid.	
-6007	The specified project name is not valid.	
-6008	The created event project is not a sourcing project.	
-6009	The specified project type is invalid.	
-6010	The specified field xxxxx is not defined for the project type.	
-6011	Events are not allowed for this project type.	
-6012	A project with this name already exists in the system.	
-6013	The value for Error Messge can be one of the following:	
	The value xxxxx is not valid for the yyyyy field.	
	Invalid value for the yyyyy field.	
	The specified field is not found in the system.	
-6014	The user does not have the permissions needed to perform this operation.	
-6015	The specified document ID xxxxx is not valid.	
-6016	The specified on behalf of user ID does not exist.	
-6017	The contract workspace with the specified contract ID already exists in the system.	
-6018	Create document has encountered problems.	
-6019	The specified event template name is not valid.	
-6020	Invalid Workspace Id.	
-6021	Invalid value for fields. xxxxx	
-6022	Invalid Parent Workspace Id.	
-6023	Error processing xxxxx.	
	(This error is returned if an error occurs when processing a field value.)	
-6024	The input contract id is not unique	
-6025	Cannot find workspace or template	
-6026	Invalid Parent Agreement Id (must be set for SubAgreements).	
-6027	Invalid Hierarchical Type, must be SubAgreement if ParentAgreement is specified.	
-6028	Assembled Documents can not be updated using Web Services.	
-6029	Provided ClassName can not be used in this Web Services.	
-6031	Provided DocumentStatus cannot be used in this Web Service	

# **Web Service Example: Creating a Procurement Contract Workspace**

This section describes how to use the Import Procurement Contract Workspace web service to create a procurement contract workspace.

- 1. Determine the template ID for the type of procurement workspace you want to create. To determine the template ID, open the appropriate template. Navigate to the **Overview** tab. The **ID** field in the Properties pane contains the template ID.
- 2. View the WSDL file to determine the required elements, which have a non-zero value for minoccurs. View the documentation tags to determine values or use a data export task to create a list of valid values. Determine values for the contract workspace you want to create, including:
  - The effective date. For more information, see EffectiveDate [page 120].
  - The expiration type and hierarchical type. For more information, see ExpirationTermType [page 120] and HierarchicalType [page 120].
  - The user who will be the owner of the created contract workspace. For more information, see OnBehalfUserId [page 119].
  - The template ID. For more information, see TemplateId [page 120].
     Some elements are required but no value is needed for the operation you are performing. For example, the WorkspaceId element is required, but if you are creating a workspace, no value is needed. You must still include the element in the SOAP message, but with no value.
- 3. If the procurement contract workspace for your system contains required custom fields, you must specify values for these fields in the custom element. For more information, see Web Service Example: Creating a Project with Custom Fields [page 127].
  - If the procurement contract workspace for your system does not contain any custom fields, you must omit the custom element in the first level immediately below the ProjectHeaderFields element.
- 4. If the organizations that can be selected for the Affected Parties field do not contain any custom fields, you must omit the custom element contained in the AffectedParties element. Alternatively, you can omit the entire AffectedParties element.

### **Import Procurement Contract Workspace Request Message**

The following is an example of an Import Procurement Contract Workspace request message to create a procurement contract workspace. This message was generated by a tool or application on the ERP system based on the WSDL file created by SAP Ariba. See Import Procurement Contract Workspace Response [page 121] for a sample response.

Elements of interest are shown in bold and described in the notes that follow.

```
</urn:Headers>
   </soapenv:Header>
   <soapenv:Body><urn:ContractWorkspaceImportRequest partition="?" variant="?">
         <!--Optional:-->
         <urn:WSContractWorkspaceInputBean Item>
            <!--Optional:-->
            <urn:item>
               <urn:Action>Create</urn:Action>
               <urn:OnBehalfUserId>molson</urn:OnBehalfUserId>
               <!--Optional:-->
               <urn:OnBehalfUserPasswordAdapter></urn:OnBehalfUserPasswordAdapter>
               <urn:ParentAgreementId></urn:ParentAgreementId>
               <urn:ParentWorkspaceId></urn:ParentWorkspaceId>
               <!--Optional:-->
               <urn:ProjectHeaderFields>
                  <!--Optional:-->
                  <urn:BaseLanguage>
                     <!--Optional:-->
                     <urn:UniqueName>en</urn:UniqueName>
                  </urn:BaseLanguage>
                  <urn:Commodity>
                     <!--Zero or more repetitions:-->
                     <urn:item>
                        <!--You may enter the following 2 items in any order-->
                        <urn:Domain>unspsc</urn:Domain>
                        <urn:UniqueName>44</urn:UniqueName>
                     </urn:item>
                  </urn:Commodity>
                  <!--Optional:--><
                     <urn:ContractId>My SOAP Contract/urn:ContractId>
                  <!--Optional:--><
                     <urn:Description>
                     <!--Optional:-->
                     <urn:DefaultStringTranslation>CW from SOAP/
urn:DefaultStringTranslation>
                  </urn:Description>
                  <urn:EffectiveDate>2010-10-14T12:00:00</urn:EffectiveDate>
                  <urn:ExpirationTermType>Fixed</urn:ExpirationTermType>
                  <urn:HierarchicalType>StandAlone</urn:HierarchicalType>
                  <!--Optional:-->
                     <urn:Supplier>
                     <urn:SystemID>sid509</urn:SystemID>
                  </urn:Supplier>
                  <urn:Title>
                     <urn:DefaultStringTranslation>Sample CW
urn:DefaultStringTranslation>
                  </urn:Title>
               </urn:ProjectHeaderFields>
               <urn:TemplateId>SYS0052</urn:TemplateId>
               <urn:WorkspaceId></urn:WorkspaceId>
            </urn:item>
         </urn:WSContractWorkspaceInputBean Item>
      </urn:ContractWorkspaceImportRequest>
   </soapenv:Body>
</soapenv:Envelope>
```

#### **Notes**

#### **Action**

This required element specifies the action for the task. The documentation tag in the WSDL file specifies the valid values; for this task, the valid values are Create and Update. The Create action creates a new workspace. The Update action updates the project fields of an existing contract workspace.

#### **OnBehalfUserId**

This required element specifies the user ID of the user for whom the SAP Ariba Web Service will perform the action. When creating a project, the system creates the project with this user as the owner.

#### i Note

This does not have to match the user specified in the **Login** field in the **HTTP AUTHENTICATION** area for the end point.

#### **OnBehalfUserPasswordAdapter**

Use this optional element to you use a custom password adapter to authenticate the user in the OnBehalfUserId element. In most cases, you can omit this element or leave the value unspecified.

#### **BaseLanguage**

This optional element specifies the base language for the project. For a list of valid values, see Country, Currency, BaseLanguage, and LocaleID Elements [page 28].

### Commodity

This optional element specifies the commodity for the project. The <code>Domain</code> child element specifies the domain or organization that defines the values for the commodity. For most installations, the Domain value will be <code>unspsc</code> (Universal Standard Products and Services Classification). The <code>UniqueName</code> child element specifies the ID for the commodity. In this example, the commodity ID is 44 (Office Products).

#### ContractId

This optional element can be used to specify the contract ID when you are creating a contract workspace. If you are updating a contract, you can either use the ContractId element or the WorkspaceId element to identify the workspace you want to update. For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].

#### **EffectiveDate**

This required element specifies the effective date for the contract workspace. This value must be specified using the XML XSD DateTime data type. For a description of the format, see XSD DateTime Elements [page 29].

#### **ExpirationTermType**

This required element specifies the term type. View the documentation tag in the WSDL file for the valid string values. The value is case sensitive.

### HierarchicalType

This optional element specifies the hierarchical type. View the documentation tag in the WSDL file for the valid string values. The value is case sensitive.

### **Supplier**

This optional element specifies the supplier. To determine the system ID for SystemID child element, you can use the Export Supplier Organizations task. You can also view the supplier in the chooser for the Supplier field of a project; click on the supplier name to view the details for the name and use the value displayed in the ID field.

#### **TemplateId**

This required element specifies the ID of the template to use when creating the workspace. To determine the template ID, open the appropriate template. Navigate to the **Overview** tab. The **ID** field in the Properties pane contains the template ID.

#### Workspaceld

This required element specifies the project (workspace) ID. When using the task to create a project, do not specify a value. If the web service successfully creates a project, the service returns the workplace ID in the WorkspaceId element of the response. If you are updating a contract, you can either use the WorkspaceId element or the ContractId element to identify the workspace you want to update.

For more information, see ContractId and WorkspaceId Elements for Contract Workspaces [page 28].

### **Import Procurement Contract Workspace Response**

The following is a sample SOAP response for a successful Import Procurement Contract Workspace create request. If the create operation is not successful, the system responds with a SOAP message that contains a non-zero status value and an error message. Note that the response for a successful create operation includes a Url element, which contains a webjumper to the created workspace. It also contains a WorkspaceId element with the ID of the created workspace; you can use the value of the WorkspaceId element to identify the workspace if you want to update the workspace.

```
<soap:Header>
     <Headers>
        <variant>vrealm 10</variant>
        <partition>prealm 10</partition>
     </Headers>
  </soap:Header>
   <soap:Body>
      <ContractWorkspaceImportReply xmlns="urn:Ariba:Sourcing:vrealm 10">
         <WSContractWorkspaceOutputBean Item>
               <Status>0</Status> <Url>http://
contractsProSourcingProSpmPro.svcdevss-sourcing.ariba.com/ad/webjumper?
itemID=AABkAHFB%21fYo&awcharset=UTF-8</Url>
               <ErrorMessage>The web service method is successfully executed.
ErrorMessage>
               <WorkspaceId>CW2169</WorkspaceId>
           </item>
         </WSContractWorkspaceOutputBean Item>
     </ContractWorkspaceImportReply>
   </soap:Body>
</soap:Envelope>
```

# Web Service Examples: Creating Sourcing Events

- Creating a Sourcing Event without a Full Sourcing Project [page 122]
- Creating an Event with a Full Sourcing Project [page 125]

### Creating a Sourcing Event without a Full Sourcing Project

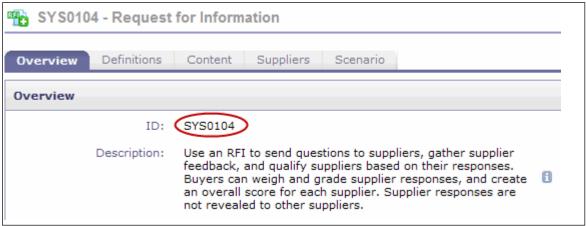
The following procedure describes how to use web services to create a sourcing event as a quick project when using SAP Ariba Sourcing Pro or as an event when using SAP Ariba Sourcing Basic. To do this, you must use two web services:

- The Import Sourcing Project web service, to create a quick project or the SAP Ariba Sourcing Basic event. The event contents are unspecified.
- The Import Sourcing Event web service, to upload the event contents.

### **Creating a Sourcing Event Without a Full Project**

#### **Procedure**

- 1. Determine the template ID for the document of the sourcing event that you want to create. To do this:
  - 1. Open the appropriate sourcing event template.
  - 2. Navigate to the Documents area.
  - 3. Click the document name.
  - 4. Click Action View Details The ID field under the Overview tab contains the template ID for the document. For example:



- 2. Use the Import Sourcing Project web service to create a quick project or an SAP Ariba Sourcing Basic event. Specify the template ID from the previous step in the TemplateId element of the Import Sourcing Project request.
- 3. Retain the following values from the Import Sourcing Project event:
  - the value you specify in the <code>DefaultStringTranslation</code> child element of the <code>Title</code> element of the request
  - the value returned in the WorkspaceId element of the response
- 4. Create the base64-encoded content for the event. The content can be:
  - o a Microsoft Excel file
  - a ZIP file containing CSV files
     To create the content, you can export an existing event to Excel and edit the contents. If you want to use
     CSV files, save each sheet of the Excel file in a separate CSV file, then create a ZIP file containing the CSV

files. Use a base64-encoding utility to create base64-encoded content from the Excel or ZIP file. For more information about this element, see Import Sourcing Event [page 85]. For more information about exporting the contents of an existing event to Microsoft Excel, see the SAP Ariba Event Management Guide.

- 5. Create an Import Sourcing Event request with the following key values:
  - O Action: Update
  - Contents: The contents of the event, created in the previous step.
  - DocumentName: the document title. If this is a newly created event, use the
     DefaultStringTranslation child element of the Title element specified in the Import Sourcing
     Project request. (If this event has been updated with a new title, use the DefaultStringTranslation
     child element of the Title element specified in the Import Sourcing Event request.)
  - O ReplaceEventContent:true
  - WorkspaceId: the value returned in the WorkspaceId element of the Import Sourcing Project response. The DocumentName and WorkspaceId elements are used to identify the event you are updating. If you know the document ID of the event (as displayed in the UI), you can use the document ID in the DocumentId element instead of specifying values in the DocumentName and WorkspaceId fields.

### Import Sourcing Event Request without a Full Sourcing Project

The following sections show the Import Sourcing Project request and response messages for creating a quick sourcing event and the Import Sourcing Event request message used to specify (update) the event contents.

#### **Import Sourcing Project Request**

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"</pre>
xmlns:urn="urn:Ariba:Sourcing:vrealm 1">
   <soapenv:Header>
      <urn:Headers>
        <!--You may enter the following 2 items in any order-->
         <!--Optional:-->
        <urn:variant></urn:variant>
        <!--Optional:-->
         <urn:partition></urn:partition>
      </urn:Headers>
   </soapenv:Header>
   <soapenv:Body>
      <urn:SourcingProjectImportRequest partition="?" variant="?">
         <!--Optional:-->
         <urn:WSSourcingProjectInputBean_Item>
            <!--Optional:-->
            <urn:item>
               <!--You may enter the following 7 items in any order-->
               <urn:Action>Create</urn:Action>
               <urn:OnBehalfUserId>molson</urn:OnBehalfUserId>
               <!--Optional:-->
               <urn:OnBehalfUserPasswordAdapter></urn:OnBehalfUserPasswordAdapter>
               <urn:ParentWorkspaceId></urn:ParentWorkspaceId>
               <!--Optional:-->
               <urn:ProjectHeaderFields>
                  <!--You may enter the following 15 items in any order-->
                  <urn:Description>
                     <!--Optional:-->
```

```
<urn:DefaultStringTranslation>Quick Project/
urn:DefaultStringTranslation>
                  </urn:Description>
                  <urn:Title>
                     <!--Optional:-->
                     <urn:DefaultStringTranslation>My RFI Event
urn:DefaultStringTranslation>
                  </urn:Title>
               </urn:ProjectHeaderFields>
               <urn:TemplateId>SYS0104</urn:TemplateId>
               <urn:WorkspaceId></urn:WorkspaceId>
            </urn:item>
         </urn:WSSourcingProjectInputBean Item>
      </urn:SourcingProjectImportRequest>
   </soapenv:Body>
</soapenv:Envelope>
```

#### **Import Sourcing Project Response**

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"</pre>
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance">
   <soap:Header>
      <Headers>
         <variant>vrealm 1</variant>
         <partition>prealm 1</partition>
      </Headers>
   </soap:Header>
   <soap:Body>
      <SourcingProjectImportReply xmlns="urn:Ariba:Sourcing:vrealm 1">
         <WSSourcingProjectOutputBean Item>
            <item>
               <Status>0</Status>
               <Url>http://s4All.svcqass-sourcing.ariba.com/ad/webjumper?
itemID=AAAKAI6EiuTx&
awcharset=UTF-8</Url>
               <ErrorMessage>The web service method is successfully executed./
ErrorMessage>
               <WorkspaceId>WS28424</WorkspaceId>
            </item>
         </WSSourcingProjectOutputBean Item>
      </SourcingProjectImportReply>
   </soap:Body>
</soap:Envelope>
```

#### **Import Source Event Request**

The following is an example Import Sourcing request to create a sourcing event using the previously created quick sourcing project. The value for the Contents element was truncated for simplicity. Note that the DocumentName value is the <Title><DefaultStringTranslation> value from the Import Sourcing Project Request and the WorkspaceId value is the value returned from the Import Sourcing Project Response.

```
<!--You may enter the following 2 items in any order-->
        <!--Optional:-->
        <urn:variant>?</urn:variant>
        <!--Optional:-->
        <urn:partition>?</urn:partition>
     </urn:Headers>
  </soapenv:Header>
  <soapenv:Body>
     <urn:EventImportRequest partition="?" variant="?">
        <!--Optional:-->
        <urn:WSRFXDocumentInputBean Item>
           <!--Optional:-->
           <urn:item>
             <!--You may enter the following 11 items in any order-->
             <urn:Action>Update</urn:Action>
             <urn:Attachments></urn:Attachments>
</urn:Contents>
             <urn:DocumentId></urn:DocumentId>
             <urn:DocumentName>My RFI Event</urn:DocumentName>
             <urn:OnBehalfUserId>taikman</urn:OnBehalfUserId>
             <!--Optional:-->
             <urn:OnBehalfUserPasswordAdapter></urn:OnBehalfUserPasswordAdapter>
             <!--Optional:-->
             <urn:RFXDocumentHeaderFields>
                <urn:Description>
                   <!--Optional:-->
                   <urn:DefaultStringTranslation>An RFI created using SOAP /
urn:DefaultStringTranslation>
                </urn:Description>
                <!--Optional:-->
                <urn:Title>
                   <!--Optional:-->
                   <urn:DefaultStringTranslation></urn:DefaultStringTranslation>
                </urn:Title>
             </urn:RFXDocumentHeaderFields>
              <urn:ReplaceEventContent>true</urn:ReplaceEventContent>
              <urn:TemplateId></urn:TemplateId>
              <urn:WorkspaceId>WS28424</urn:WorkspaceId>
           </urn:item>
        </urn:WSRFXDocumentInputBean Item>
     </urn:EventImportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### Creating an Event with a Full Sourcing Project

The following procedure describes how to use the Import Sourcing Event web service to create or update a sourcing event in a full sourcing project. When creating a sourcing event in a full project, you can create the event from an unused Document Choice document (which acts as a placeholder) or you can create an ad hoc sourcing event (a sourcing event that is not created from a Document Choice document).

### **Creating a Sourcing Event in a Full Project**

#### **Procedure**

- 1. If you want to create the sourcing event using a Document Choice document, create a project template for a full sourcing project that contains a Document Choice document. Add the appropriate sourcing events as choices for the document.
- 2. Create a full sourcing project using the appropriate project template. You can do this by using the Import Sourcing Project web service or by using the UI.
- 3. Determine the project (workspace) ID of the full sourcing project. You must specify the project ID in the WorkspaceId element of the Import Sourcing Event request.

There are two ways to determine the project ID:

- Retain the value of the WorkspaceId element from the Import Sourcing Project response.
- Open the project in the UI and view ID in the **ID** field under the **Overview** tab.
- 4. If you are using a Document Choice document, determine the document name. The system displays this under the **Documents** tab in the project and in the template.

You will specify this name in the DocumentName element of the Import Sourcing Event request.

- 5. Determine the template ID for the document of the sourcing event that you want to create. This step is described in Creating a Sourcing Event without a Full Sourcing Project [page 122].
- 6. Create the base64-encoded content for the event. This step is described in Creating a Sourcing Event without a Full Sourcing Project [page 122].
- 7. Specify the appropriate values in the Import Sourcing Event request. If you are using a Document Choice document to create the event, specify Create for the Action element. If you are creating an ad hoc event, specify CreateAdhoc for the Action element.

#### i Note

If you have already created an event from the Document Choice document, you cannot use the Create action to create additional events; instead, use the CreateAdhoc action.

### Import Sourcing Event Request with a Full Sourcing Project

The following is an example Import Sourcing request to create a sourcing event in an existing full sourcing project using a Document Choice document. The value for the Contents element was truncated for simplicity. If the request was used to create an ad hoc sourcing event, the value for the Action element would be CreateAdhoc and the value of the DocumentName element would be ignored.

```
<urn:partition>?</urn:partition>
     </urn:Headers>
  </soapenv:Header>
  <soapenv:Body>
     <urn:EventImportRequest partition="?" variant="?">
        <!--Optional:-->
        <urn:WSRFXDocumentInputBean Item>
           <!--Optional:-->
           <urn:item>
             <!--You may enter the following 11 items in any order-->
             <urn:Action>Create</urn:Action>
             <urn:Attachments></urn:Attachments>
</urn:Contents>
             <urn:DocumentId></urn:DocumentId>
             <urn:DocumentName>My Doc Choice</urn:DocumentName>
             <urn:OnBehalfUserId>taikman</urn:OnBehalfUserId>
             <!--Optional:-->
             <urn:OnBehalfUserPasswordAdapter></urn:OnBehalfUserPasswordAdapter>
             <!--Optional:-->
             <urn:RFXDocumentHeaderFields>
                <urn:Description>
                   <!--Optional:-->
                   <urn:DefaultStringTranslation>An RFI created using SOAP /
urn:DefaultStringTranslation>
                </urn:Description>
                <!--Optional:-->
                <urn:Title>
                   <!--Optional:-->
                   <urn:DefaultStringTranslation>My RFI
urn:DefaultStringTranslation>
                </urn:Title>
             </urn:RFXDocumentHeaderFields>
             <urn:ReplaceEventContent>false</urn:ReplaceEventContent>
             <urn:TemplateId>SYS0104</urn:TemplateId>
             <urn:WorkspaceId>WS14592</urn:WorkspaceId>
           </urn:item>
        </urn:WSRFXDocumentInputBean Item>
     </urn:EventImportRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

# **Web Service Example: Creating a Project with Custom Fields**

The WSDL files for tasks that can create or update projects (such the Import Procurement Contract Workspace task) contain a <code>custom</code> element that contains placeholders for custom project fields of different types. The following WSDL file excerpt shows the first part of the custom element with the placeholder element for custom decimal fields:

If your SAP Ariba support team selected the **External Integration Field** option for your custom field, the system includes a documentation element within the element of the appropriate type. The documentation element specifies the internal name. For example, the system generated the following element for the custom Needs EU Approval boolean field:

The SOAP request specifies the type (CustomBoolean), field name (NeedsEUApproval), and value (true) in the custom element:

The following listing contains the entire SOAP message:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"</pre>
xmlns:urn="urn:Ariba:Sourcing:vrealm 10">
   <soapenv:Header>
      <urn:Headers>
         <!--Optional:-->
         <urn:variant></urn:variant>
         <!--Optional:-->
         <urn:partition></urn:partition>
      </urn:Headers>
   </soapenv:Header>
   <soapenv:Body>
      <urn:ContractWorkspaceImportRequest partition="?" variant="?">
         <!--Optional:-->
         <urn:WSContractWorkspaceInputBean Item>
            <!--Optional:-->
            <urn:item>
               <urn:Action>Create</urn:Action>
               <urn:OnBehalfUserId>molson</urn:OnBehalfUserId>
              <urn:OnBehalfUserPasswordAdapter></urn:OnBehalfUserPasswordAdapter>
               <urn:ParentAgreementId></urn:ParentAgreementId>
               <urn:ParentWorkspaceId></urn:ParentWorkspaceId>
               <urn:ProjectHeaderFields>
                  <urn:AgreementDate>2010-09-14T12:00:00</urn:AgreementDate>
                  <!--Optional:-->
                  <urn:Description>
                     <!--Optional:-->
```

```
<urn:DefaultStringTranslation>My description/
urn:DefaultStringTranslation>
                  </urn:Description>
                  <urn:EffectiveDate>2010-09-14T12:00:00</urn:EffectiveDate>
                  <!--Optional:-->
                  <urn:ExpirationDate>2011-09-14T12:00:00</urn:ExpirationDate>
                  <urn:ExpirationTermType>Fixed</urn:ExpirationTermType>
                  <!--Optional:-->
                  <urn:HierarchicalType>StandAlone</urn:HierarchicalType>
                  <urn:Title>
                     <!--Optional:-->
                     <urn:DefaultStringTranslation>My project/
urn:DefaultStringTranslation>
                  </urn:Title>
                  <!--Optional:-->
                  <urn:custom>
                     <urn:CustomBoolean name="NeedsEUApproval">true
urn:CustomBoolean>
                  </urn:custom>
               </urn:ProjectHeaderFields>
               <urn:TemplateId>SYS0052</urn:TemplateId>
               <urn:WorkspaceId></urn:WorkspaceId>
            </urn:item>
         </urn:WSContractWorkspaceInputBean Item>
      </urn:ContractWorkspaceImportRequest>
   </soapenv:Body>
</soapenv:Envelope>
```

For information about specifying values for custom fields for Flex Master Data fields, see Using Custom Elements for Flex Master Data Fields [page 33].

### **Contract Data File Formats**

#### In this section:

Contract header file format [page 130]

Contract Terms Export File Format [page 132]

Excel format for contract line items documents [page 132]

### **Contract header file format**

SAP Ariba Contracts exports contract header data to CSV files, which consist of rows of data. The first row is the character encoding. For exported files, the character encoding is always set to UTF-8.

The second row is the header row, which lists the column headings. If you have defined custom header fields (flex fields), and you want them exported, verify with your SAP Ariba representative that they are flagged for export on the Advanced tab of the Field Configurator. Any custom fields are added in columns to the end of the export file as string types and are labeled cus\_xxx, where xxx is the user interface field label. For example, if a custom field Current Status was added to the Contract Workspace page, then the exported column is labeled cus CurrentStatus.

The subsequent rows contain the exported data. Each row contains data for one contract, indexed by the Contract Workspace ID.

- The data in exported CSV files is always in en\_US locale format, regardless of user and site default locale settings.
- Numerical values in exported CSV files do not include the comma (",") separator.

The following table provides a description of the columns in the contract header CSV data export files:

Column	Description
Contract ID	A unique identifier string for the contract.
Last Published	The number of the most recently published version of the project.
Title	The title of the contract.
Description	The user-specified contract description.
Version	The most recent contract version.
Access Control	A list of access controls applied to the contract, delimited by brackets ([]).
Contract Status	The status of the contract: Not Created, Draft, Published, Pending, On Hold, Expired, Closed, Draft Amendment.
Owner	The user or group who owns this document.

Column	Description
Time Updated	The last updated time of the contract.
Last Modified By	The last user who modified the contract.
Test Project	Indicates if the contract is a test project (or request).
Predecessor	The predecessor contract ID.
Hierarchical Type	Indicates how the contract relates hierarchically to other contracts: as a standalone Agreement, Master Agreement or Sub Agreement.
Parent Agreement	This depends on the Hierarchical type. If the Hierarchical type is Sub Agreement, then this is applicable to choose the parent or master agreement. This option is not applicable if the Hierarchical type is Standalone or Master agreement.
Supplier Name	The full name of the contract supplier.
Affected Parties	A list of names of affected parties, delimited by brackets ([]).
Affected Parties IDs	A list of IDs of affected parties, delimited by brackets ([]). Each ID contains a series of domain and value pairs enclosed in parentheses, where the domain and value are separated by a colon (domain: value). For example, [(duns: 110011811) (buyersystemid: sid803) (internal systemid: 20003)].
Supplier ID	The ID of the contract supplier.
Amount_ Currency	The currency specified in the event, when it is different from the project currency. The values in this column are standard ISO currency codes, such as USD or EUO.
Amount_Amount	The contract's total monetary amount.
Contract Type	The type of contract chosen. It can be Fixed, Perpetual or Auto-Renew.
Effective Date	The date when the terms of the contract go into effect.
Agreement Date	The date when the parties agreed to the contract.
Expiration Date	The date when the contract will expire and its terms will no longer be in effect, if it is not renewed.
InternalId	Internal ID assigned to the workspace or request by SAP Ariba Contracts .
RelatedId	This is an optional field.
AmendmentReason	Reasons entered at the time of choosing the type of Amendment. (Administrative, Renewal, Termination, or Amendment)
AmendmentReason Comment	Comments entered at the time of creating an Amendment.
IsContractReque st	Indicates a contract workspace is required or not.
CreateDate	The creation date for the event's contract project. Dates are in the format EEE, d MMM, yyyy. For example, Wed, 18 Feb, 2009.

Column	Description
BaseLanguage	Base language of the contract.

# **Contract Terms Export File Format**

For information about exported contract terms files, see the SAP Ariba guide for your procurement or invoicing solution.

### **Excel format for contract line items documents**

An Excel version of a contract line items document contains the following worksheets:

- Contract Header
- Contract Item Information
- Header Attributes
- Item Attributes

All cells in the worksheets are general format cells.

#### **Contract Header Worksheet Columns**

A **Contract Header** worksheet contains the columns shown in the following table. When a line items document is exported, the values are provided for information only. SAP Ariba does not import values from this worksheet.

Column	Description
Event ID	Document ID and title (docId - title) of the line items.
Title	Title of the line items document.
Description	Description for the line items document.
Requester	ID of the user who created or updated this document.
Company Name	SAP Ariba does not set or read this field.
Supplier Name	Supplier field from the project header.
SupplierID Domain	Domain from which the supplier ID is assigned, such as buyer- systemid or sap. A supplier can have multiple IDs, each as- signed from a different domain.

Column	Description
SupplierID Value	Supplier ID.
Contract Source	SAP Ariba does not set or read this field.
Buyer Contract ID	The corresponding SAP Ariba procurement or invoicing compliance contract ID.
Term Type	Contract type. This is always <b>Item</b> .
Limit Type	Specifies how the limit is regulatedby <b>Amount</b> (cost of items) or <b>Quantity</b> (number of items).
Agreement Date	Agreement Date from the workspace header.
Effective Date	Effective Date from the workspace header.
Expiration Date	Expiration Date from the workspace header.
Contract Currency	SAP Ariba does not set or read this field.
Minimum Amount	SAP Ariba does not set or read this field.
Maximum Amount	SAP Ariba does not set or read this field.
Reference Document	If the line items document was created from a contract terms link to a compliance contract, this is the ID of the contract terms.

#### **Contract Item Information Worksheet Columns**

Column	Description
Bundle	Bundle name, as specified in the event award (for line items documents created from SAP Ariba Sourcing event awards).
Item Number	Used by SAP Ariba to correlate an item with attributes in the <b>Item Attributes</b> worksheet and to identify an item.
Short Name	Item name.
Description	Item description.
Extended Description	Full Description field for a compliance contract.
Supplier Part Number	Supplier part number.

Column	Description
Unit of Measure	Unit of measure for the unit price (Price Unit field for a compliance contract).
Unit Price	Price per unit.
Discount Amount	Discount, specified as a fixed amount.
Supplier Discount (%)	SAP Ariba does not set or read this field.
Unit Price Currency	Currency type for unit price.
Classification Domain	Domain for the category or classification, such as UNSPSC for commodities.
Classification Code	Category or classification code, such as a commodity code.
Quantity	The number of units.
Minimum Quantity	Minimum number of items that can be purchased.
Maximum Quantity	Maximum number of items that can be purchased.
Minimum Amount	Minimum value of the items that can be purchased.
Maximum Amount	Maximum value of the items that can be purchased.
Manufacturer Name	Name of manufacturer.
Manufacturer Part Number	Manufacturer's part number.
Limit Type	Specifies how the limit is regulatedby Amount (cost of items) or Quantity (number of items).
Number	Used for service item hierarchies. A string with a unique dotted-decimal value that indicates the item's hierarchy and its position in the hierarchy. For example, items with <b>Number</b> values 2, 2.1, and 2.1.1 are members of the same hierarchy. The item with <b>Number</b> 2 is at the highest level of the hierarchy and the item with <b>Number</b> 2.1.1 is at the lowest level.  Number is used only to define service item hierarchies and is ignored if <b>LineType</b> is not Service Line, Service Outline, or Service Specification. Number has no effect on an item's order in a list, other than ensuring that the items in the same hierarchy are listed together and in descending order.

Column	Description
LineType	Used for service item hierarchies. Specifies the type of service item. Valid values:
	Service Line (top-most level; all service outlines and service specifications must be contained in a service line)     Service Outline (optional objects used to organize service items; can contain child service outlines or service specifications)     Service Specification (specifies a service to be performed; cannot contain any children)

#### **Header Attributes Worksheet Columns**

The following columns are present in the **Header Attributes** worksheet but SAP Ariba does not set or read values for these columns:

- Attribute Name
- Attribute Value
- Display Text
- Type
- Description
- Table Section Column

#### **Item Attributes Worksheet Columns**

The Item Attributes worksheet contains one row for each term defined for each line item.

Column	Description
Item Number	Used by SAP Ariba to correlate attributes with an item in the <b>Contract Item Information</b> worksheet.
Attribute Name	Attribute name.
Attribute Value	Attribute value.
Display Text	Optional display text for the attribute.
Туре	Data type for the attribute, such as <b>Text</b> or <b>Money</b> .
Description	Optional description for the attribute.

Items added from SAP item master data have entries with the following **Attribute Name** values:

Attribute Name Column Value	Description
Item Category	Category to which the material belongs.
Material Group	Name of the material group for the item.
Material Number	Number (ID) of the material group for the item.
Material Type	Material type for the item.
Incoterms	International Commercial Terms ID that specifies Terms of Delivery.
Material Code	Material code for the item.
Requisition ID	ID of the ERP requisition for the item.
RFQ ID	ID of the ERP RFQ for the item.
Requisition Item Number	Line number for this item in the ERP requisition.
RFQ Item Number	Line number for this item in the ERP RFQ.
Base Unit Of Measure	Unit of measure in which the stocks of the item is measured.
Order Unit	Unit of measure used when ordering this item.
Plants	ERP IDs of plants that may purchase this item. IDs are enclosed by square brackets and delimited by a comma and space. For example: [1000, 2000].

# **Sourcing Data File Formats**

#### In this section:

Sourcing Import File Formats [page 137]

Sourcing Export File Formats [page 137]

# **Sourcing Import File Formats**

You can import sourcing event data for either quick or full projects from Microsoft Excel files. The file format you use for event data import is based on a prototype Excel file that you generate from SAP Ariba Sourcing. See the sections on creating event spreadsheet prototypes and editing spreadsheets for import in the SAP Ariba Event Management Guide for information on generating a prototype that illustrates the file format you need for importing event data.

# **Sourcing Export File Formats**

SAP Ariba Sourcing exports event data to CSV files, which contain a standard set of columns, as well as additional columns for any custom fields in your SAP Ariba Sourcing solution that have been flagged for third-party integration.

#### i Note

Custom fields are only included in data exports from SAP Ariba Sourcing if they have been flagged for third-party integration. To make sure that specific custom fields in your solution are flagged for third-party integration, contact your SAP Ariba representative.

# **Event Data**

The following table describes the columns that are present in CSV data files exported from SAP Ariba Sourcing for events:

Column	Java Data Type	Description
Commodity	String	The commodity or commodities specified for the project. This column can contain any of the commodities defined for your solution. In cases where there is more than one commodity specified for a project, this column contains a list commodity codes separated by pipe characters ( ).
Contract Effective Date	Date	The contract effective date that the user enters when creating the SAP Ariba Sourcing project. Dates are in the format EEE, d MMM, yyyy. For example, Wed, 5 Nov, 2008.
Contract Months	Double	The number of contract months the user enters when creating the SAP Ariba Sourcing project.
Creation Date	Date	The creation date for the event's SAP Ariba Sourcing project.  Dates are in the format EEE, d MMM, yyyyy. For example,  Wed, 5 Nov, 2008.
Project Id	String	The ID for the event's SAP Ariba Sourcing project.
Project Owner	String	The name of the user who owns the SAP Ariba Sourcing project; for example, Bob Smith.
Regions	String	The regions specified for the project. This column can contain any of the region values defined for your solution. In cases where there is more than one region specified for a project, this column contains a list of regions separated by pipe characters ( ).
Project Title	String	The title for the SAP Ariba Sourcing project, in the language specified by the exporting user's locale settings.
Currency	String	The currency specified for the event, when it is different from the project currency. The values in this column are standard ISO currency codes, such as USD or EUR.
Event Type	String	The event type, such as Auction, Forward Auction, or RFI.
Event Owner	String	The username of the user who owns the event.
Event Id	String	The ID for the event.
Event Title	String	The title for the event, in the language specified by the exporting user's locale settings.
Supplier Name	String	The full name of the bidding supplier as specified in the event; for example, Mary Jones.
Supplier Phone	String	The supplier's phone number.
Supplier Address	String	The supplier's address.

Column	Java Data Type	Description
Supplier Organization Name	String	The name of the supplier organization associated with the bidding supplier.
Supplier Organization Id	String	A list of all organization IDs, separated by pipe characters ( ), for the supplier organization associated with the bidding supplier. Because the same supplier can have different IDs in different third-party systems, SAP Ariba organization IDs are domain:value pairs for specific systems, and the entire list is exported in this column. For example, ABC Company's list of organization IDs might look like this:  SAP:1234 Oracle:2345 PeopleSoft:3456
Туре	String	The content type, such as Line Item or Section.
Line Type	String	Service line type. Specifies the type for a line item in an SAP service hierarchy, such as Service Line, Service Outline, or Service Specification.
Reporting Savings.reportin gcurrency	BigDecimal	Bid savings. This column is only exported when the event currency and the site's default reporting currency are different; the value in this column is in the reporting currency. For example, if the event is in Euros but the default reporting currency is US dollars, the header for this column is Reporting Savings. USD, and the data in the column is in US dollars.
Participant	String	The bidding supplier's full name and organization; for example, ABC Company (Mary Jones).
Score Value	BigDecimal	The score value for the bid participant.
Bid Id	String	The ID of the bid.
Savings Percentage	BigDecimal	Percentage of bid savings.
Bid Status	String	The status of the bid, such as Accepted, Pending Selection, or Replaced.
Reporting Extended Price.reportingc urrency	BigDecimal	The extended price (unit cost times bid quantity) of the bid items. This column is only exported when the event currency and the site's default reporting currency are different; the value is always in the reporting currency. For example, if the event is in Euros but the default reporting currency is US dollars, the header for this column is Reporting Extended Price.USD, and the data in the column is in US dollars.
Reporting Price.reportingc urrency	BigDecimal	The bid price. This column is only exported when the event currency and the site's default reporting currency are different; the value in this column is in the reporting currency. For example, if the event is in Euros but the default reporting currency is US dollars, the header for this column is Reporting PriceS.USD, and the data in the column is in US dollars.
Quantity	BigDecimal	The bid quantity.

Column	Java Data Type	Description
Price	BigDecimal	The bid price in the event currency.
Savings	BigDecimal	Bid savings in the event currency.
Rank	Integer	The supplier's rank.
Extended Price	BigDecimal	The extended price (price times quantity) of the bid items in event currency.
Item Name	String	The name of the item in the bid.
Section/Lot	String	The name of the bid's section or lot.
Award Allocation Percentage	BigDecimal	The percentage of the total award allocated for the bid.

In addition to the columns described above, the exported CSV file can contain the following data:

- A column of type String for each custom term defined for the event. The header for a custom term column is the term name.
- A column of type BigDecimal for each scenario. The header for a scenario column is Scenario: scenarioname, where scenarioname is the name of the scenario defined when the event is created. The column contains the allocation percentage for the item in the bid.

### **RFX Award Data**

The Download RFX Award, Download RFX Award with Filters, and Export RFX Award web services export a CSV file for each RFX award. Each row in the file contains data for an item from one of the following sources:

- a bid or response from a participant
- a value entered by the event owner (an initial, historical, or reserve value)
- the leading bid or response for the item

Use the Item Name or Item Number column with the Award Allocation column to find the bids or responses rewarded for a given item.

Column	Description
Commodity	The commodity or commodities specified for the project. This column can contain any of the commodities defined for your solution. In cases where there is more than one commodity specified for a project, this column contains a list commodity codes separated by pipe characters ( ).
Contract Effective Date	The contract effective date that the user enters when creating the SAP Ariba Sourcing project. Dates are in the format <i>EEE</i> , <i>d MMM</i> , <i>yyyyy</i> . For example, Wed, 5 Nov, 2008.
Contract Months	The number of contract months the user enters when creating the SAP Ariba Sourcing project.
Creation Date	The creation date for the event's SAP Ariba Sourcing project. Dates are in the format <i>EEE</i> , <i>d MMM</i> , <i>yyyy</i> . For example, Wed, 5 Nov, 2008.

Column	Description		
Project Id	The ID for the event's SAP Ariba Sourcing project, such as WS1234.		
Project Owner	Project owner. For quick projects (standalone events), this is the event owner.		
Regions	Regions, as specified in the event or project header. In cases where there is more than one region specified for a project, this column contains a list of regions separated by pipe characters ( ).		
Project Title	Project name. For quick (standalone) events, this is the same as the event name.		
Company	Company code for the event (set if your site is integrated with an external system).		
Purchasing Organization	Purchasing organization for the event (set if your site is integrated with an external system).		
Purchasing Group	Purchasing group for the event (set if your site is integrated with an external system).		
Payment Terms	Payment terms for the event (set if your site is integrated with an external system).		
Document Type	Type of document to create on the external system from this data, such as a <b>Purchase</b> Order or Contract (set if your site is integrated with an external system).		
Document Category	Category of document to create on the external from this data, such as a <b>NB Standard Purchase Order</b> or <b>WK Value Contract</b> (set if your site is integrated with an external system).		
Currency	The currency specified for the event, when it is different from the project currency. The values in this column are standard ISO currency codes, such as USD or EUR.		
Event Type	Event type. Possible values are: RFI, Survey, RFQ, Forward Auction, Auction, and RFP.		
Event Owner	The username of the user who owns the event.		
Event Id	Event ID, such as Doc1234.		
Event Title	Event title (name).		
Supplier Name	Name of the supplier user for the data in this row (the user who entered the bid or response). If blank, the data in this row was entered as content by the event owner (for example, data could be the initial or historic price for an item).		
Supplier Phone	Phone number of the supplier for the data in this row.		
Supplier Address	Address of the supplier for the data in this row.		
Supplier Organization Name	Organization name of the supplier for the data in this row.		
Supplier Organization Id	IDs of the supplier for the data in this row. Each ID is in the format <code>domain:value</code> , and the IDs are separated by pipe ( ) characters. For example: buyersystemid:sid123  sourcingnetworkid:an70000000123 internalsystemid:1001 duns: 999999999 networkid:an7000000123 oracle:1234  psoft:share:usa0000123 sap:0000001123		
Bid Id	Identifier for the bid.		

Column	Description	
Bid Status	Bid Status.	
Participant	Source for the data in this row. For bids or responses, this is the participant organization and user participant. For data entered by the event owner, this column indicates the type of data (Initial (initial value), Historic, Reserve). For data that indicates the leading bid or response, the value is Leading.	
Section/Lot	Section or lot name.	
Item Name	Name of the line item or lot, as entered by the event owner.	
Rank	Rank for the bid or response in this row (the bid with the lowest price is ranked 1).	
Savings Percentage	Savings percentage for the bid or response in this row.	
Score Value	Score calculated for the participant using grading and scoring rules. For more information, see the <i>Grading and scoring</i> topic.	
Туре	Item type (Line Item, Lot Item, Basket Lot, Cost Item, Biddable Lot, Item Lot, Single Item Lot).	
Line Type	Service line type. Specifies the type for a line item in an SAP service hierarchy, such as Service Line, Service Outline, or Service Specification.	
Submission Date	Submission date in the format <i>EEE</i> , <i>d MMM</i> , <i>yyyy</i> . For example, Wed, 5 Nov, 2008.	
Item Number	Number that identifies the line item or lot relative to the other content in the RFX or auction.	
Price	Price for the bid or response in this row.	
Reporting Price.reportin gcurrency	The bid price in your site's default reporting currency (reportingcurrency). For example, if the default reporting currency for you site is US dollars, the header for this column is Reporting Price.USD, and the data in the column is in US dollars.	
Quantity	Quantity for the item.	
Extended Price	Extended price (price * quantity).	
Savings	The savings (amount) for this response or bid.	
Reporting Savings.report ingcurrency	The savings in your site's default reporting currency (reportingcurrency). For example, if the default reporting currency for you site is US dollars, the header for this column is Reporting Savings. USD, and the data in the column is in US dollars.	
Material Group	Material group for the item. Only present if the item was added from item master data.	
Material Number	Material number for the item. Only present if the item was added from item master data.	
Material Type	Material type for the item. Only present if the item was added from item master data.	
Plant	Plant for the item. Only present if the item was added from item master data.	

Column	Description
Item Category	Category for the item. Only present if the item was added from item master data
Bid Currency	Currency type used by the participant.
Bid Savings	The savings for this response or bid
Bid Extended Price	The extended price for this response or bid.
Bid Price	The price submitted for this response or bid.
Award Allocation Percentage	The amount awarded for this bid, shown as a percentage of the total.
Scenario scenario_name	The amount allocated for this bid for the given scenario, shown as a percentage of the total.  There will be one Scenario column for each scenario created for the event.

# **Managing Integration Migration**

#### In this section:

About Integration Migration Management [page 144]

Reviewing and Accepting Changes to Data Definitions [page 145]

Reverting Accepted Changes to Data Definitions [page 147]

Reviewing Data Definitions in the Data Dictionary [page 148]

Reviewing Data Definitions in a WSDL [page 149]

## **About Integration Migration Management**

The integration migration management utility enables you to control when changes to data definitions are adopted in data export and import operations so that the changes do not cause compatibility problems when exchanging data with ERP or other external systems.

SAP Ariba introduces new fields in data objects and data export tasks to support newer workflows and to send more information to ERP or other external systems. Any change to the data definition — for example, a new field introduced in an export task, or a change to the order of the fields, has the potential to cause compatibility problems when exchanging data with ERP or other external systems.

To solve this potential problem, the integration migration management feature enables you to review the field changes made to data export and import tasks, and if desired, accept the changes. This ensures that the data definition changes that SAP Ariba makes will not be incorporated into your data export or import tasks until you explicitly accept those changes.

After accepting changes to the data definitions, if needed, you can revert to the previously accepted data definition.

For the SAP Ariba Web Services, integration migration management is needed for both data imports and data export operations, because all messages must adhere to the WSDL for the event regardless of whether they are import or export operations. For the file channel, the Integration Migration Management feature is not needed for imports operations because import integrations available out of the box in SAP Ariba solutions do not rename import fields, and are able to handle extra and incorrect fields.

Integration migration management is not applicable when exporting the following items and changes to the data definitions for these items occur without user intervention:

- Sourcing Projects
- Supplier Profile Questionnaires (SPQs) and data that includes responses to SPQs, such as supplier profiles

### **Integration Migration Management Workflow**

Integration migration management involves the following activities:

- 1. After a release, whenever field changes are introduced to an SAP Ariba data export or import task (in a hot fix or service pack), you view these changes in the larger larger
- 2. You can review the changes and accept them. Once accepted, the data export or import task changes take effect.

You cannot choose specific changes to accept or revert in a given data export or import task. You must accept all the changes to the task in order for any of the changes to take effect.

#### **Related Information**

Reviewing and Accepting Changes to Data Definitions [page 145]
Reverting Accepted Changes to Data Definitions [page 147]
Reviewing Data Definitions in the Data Dictionary [page 148]
Reviewing Data Definitions in a WSDL [page 149]

## **Reviewing and Accepting Changes to Data Definitions**

#### **Prerequisites**

You must be a member of the Integration Admin or Customer Administrator group.

#### **Procedure**

- 1. In Ariba Administrator, click Integration Manager Data Definition .
- 2. On the right side of the top menu bar, click Advanced.
- 3. Click Refresh Data Definition:



This ensures that you have the latest data for your installation.

- 4. In the **Data Definition** page, check the **Status** column for tasks with the status **Changed**. Select the **Review** command in the **Actions** pull-down menu of a data export or import task with the **Changed** status.
  - A page opens that lists the files or groups with new or changed fields for that task.
- 5. Select the file name (if it is a file channel task) or group name (if it is a web services task) with the status **Needs Review**.

- 6. Review the changes. The **New Field** column shows the new data definition.
- 7. If you want to accept the displayed changes, click **Accept Changed Fields**. If you are not ready to accept the changes, click **Exit**.
- 8. Repeat the Review and Accept Changed Fields actions to review and accept changes for all files with changes.
- 9. After accepting all changes in the data export or import task, click Publish All Changes.
- 10. Click **OK** in the confirmation dialog box to incorporate the changes into this data export or import task.

#### Results

#### i Note

You must accept all the changes to the data export or import task in order for any of the changes to take effect.

You can revert changes in the data export or import task that you have accepted. You can revert to the most recently accepted version only.

## **Data Definition Change Example**

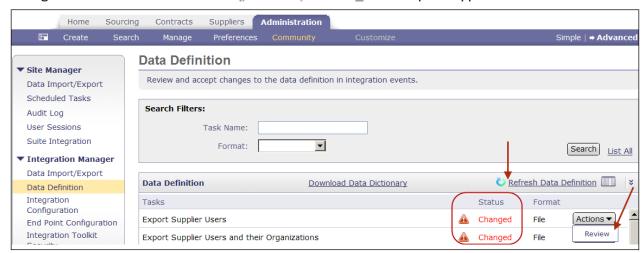
#### Context

A user in the Integration Admin group clicks Integration Manager Data Definition.

In the top menu bar, the user clicks Advanced.

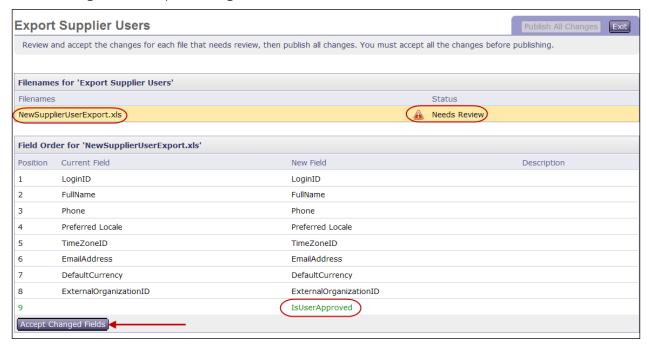
On the **Data Definition** page, the user clicks **Refresh Data Definition**.

The **Status** field shows the **Export Supplier Users** and **Export Supplier Users and their Organizations** have **Changed** data definitions. The user clicks Actions Review for the **Export Supplier Users** task.



The **Export Supplier Users** page shows the names of all files for the task field. Select a file with the status **Needs Review**. In this example, the task has only one file (NewSupplierExport.xls). The new field name in this file is

IsUserApproved. The user clicks **Accept Changed Fields** to accept the changes for the NewSupplierExport.xls file. If multiple files had changes for this task, the user would click each file name to view the changes, then accept the changes.



The user clicks **Publish All Changes** in the upper right corner of the page.

## **Reverting Accepted Changes to Data Definitions**

#### **Prerequisites**

You must be a member of the Integration Admin or Customer Administrator group.

#### **Procedure**

- 1. In Ariba Administrator, select Integration Manager Data Definition .
- 2. On the right side of the top menu bar, click **Advanced**.
- 3. Click Refresh Data Definition:



This ensures that you have the latest data for your installation.

- 4. In the Data Definition page, select the Revert command in the Actions pull-down menu of the data export or import task.
- 5. Select the file name (if it is a file channel task) or group name (if it is a web services task) with the status **Needs**

Fields that will be reverted are shown in red.

- 6. Click Accept Changed Fields to revert changes.
- 7. Repeat steps the steps to review and accept changes for all files or groups to be reverted.
- 8. After accepting all the changes to revert, click **Publish All Changes**, and then click **OK** in the confirmation dialog box to restore the data export or import task to its previous state.

#### Results

#### i Note

You must revert all the changes to the data export or import task for any of the changes to be reverted.

## **Reviewing Data Definitions in the Data Dictionary**

#### **Prerequisites**

You must be a member of the Integration Admin or Customer Administrator group.

(File channel only) The Data Dictionary reflects the data definition for each file channel data export or import task.

#### **Procedure**

- 1. In Ariba Administrator, click Integration Manager Data Definition .
- 2. Click the **Download Data Dictionary** link on the **Data Definition** page.

#### **Results**

The contents are color coded as follows:

- deprecated fields are shown in red
- new fields to be accepted are shown in green

The column New File Column Name indicate any new or deprecated fields. The new column shows what the data definition would be if you accepted the changes. If there are no changes to the event, the columns File Column Name and New File Column Name have the same contents.

## **Reviewing Data Definitions in a WSDL**

#### Context

(Web Services only) You can preview what the contents of the WSDL would be if you accepted the data definition changes.

#### **Procedure**

- 1. Use the procedure to generate a WSDL file, as described in Generating a WSDL File [page 22].
- 2. Copy the destination URL for the WSDL file.
- 3. Add the latest=true parameter to the URL, as shown in the following example:

http://sl.ariba.com/Buyer/soap/realm/event?wsdl&latest=true

#### Where:

realm is your realm name

event is your data export or import task name

This generates the WSDL as it would appear if you accepted all of the data definition changes for this event.

# **Site Configuration Options for Integration Services**

Site configuration options are set for you by SAP Ariba.

#### Application.ACM.EnableWSContractTermsPush

Setting this parameter to Yes enables users to export a Contract Terms Excel file document to an ERP or other external system by clicking the **Export** External System command in the Actions pull-down menu for the Contract Terms document. The SAP Ariba system uses the Export Contract Terms web service to send the Contract Terms file. The default value is No.

#### Application.ACM.EnableWSWorkspaceIdOnCreatePush

If the Export WorkspaceId service is configured, setting this parameter to Yes causes the SAP Ariba system to use the Export WorkspaceId service to send a workspace ID to the outbound endpoint when an SAP Ariba Contractsworkspace is created. The default value is No.

#### Application.ACM.EnableWSWorkspaceIdOnPublishPush

If the Export WorkspaceId service is configured, setting this parameter to Yes causes the SAP Ariba system to use the Export WorkspaceId service to send a workspace ID to the outbound endpoint when an SAP Ariba Contracts workspace is published. The default value is No.

#### Application.ACM.EvaluateParentAgreementFromParentContractId

Specifies if the import workspace web services (Import Procurement Contract Workspace, Import Internal Contract Workspace, Import Sales Contract Workspace) validate the ParentAgreementIdelement when updating subagreements against the contract ID of the parent workspace or against the internal ID of the parent workspace. The default value is No (validate against the internal ID). In most cases, a workspace's contract ID and internal ID are the same. Setting this parameter to Yes is useful when updating subagreements that have parent agreements that were created using legacy load operations and the internal ID does not match the contract ID and is not known.

#### Application.ACM.ExternalDocumentBrowserURL

If the ERP system has a web page with links that generate and send Import Document SOAP messages to the SAP Ariba system, set this parameter to the URL for that web page. SAP Ariba users who click Actions Upload External Document from the Documents tab in a project will be forwarded to this URL.

#### ${\tt Application.ACM.TimeZoneIDForExportExcelByWebService}$

By default, date fields (Date\_Field and CalendarDate\_Field type) exported for the RFX award are listed in the time zone for the SAP Ariba server (such as GMT -8). Use this parameter to adjust the date fields using a different time zone. The value must be a time zone ID supported by the Java TimeZone class (a value returned by java.util.TimeZone.getAvailableIDs(), such as Etc/GMT+8, Etc/GMT-9, Asia/Calcutta, or IST).

#### ${\tt Application.AQS.AutoEventCompletionWhenAllItemsAwarded}$

Specifies if an event automatically changes to the **Completed** state after at least one award is submitted for each item in the event. The default value is Yes; if set to No, events must be manually closed.

#### Application.AQS.EnableWSAwardPush

Setting this parameter to Yes enables the RFXAwardExport scheduled task to use the Export RFX Awards web service to export RFX awards to an external system. The default value is No.

#### Application.Base.PreferredTimeZoneIDForUser

By default, users created using the Import Users web service have their time zone set to the time zone for the SAP Ariba server (such as GMT -8). Use this parameter to assign a different time zone for users created using the Import Users web service. The value must be a time zone ID supported by the Java TimeZone class (a value returned by java.util.TimeZone.getAvailableIDs(), such as Etc/GMT+8, Etc/GMT-9, Asia/Calcutta, or IST).

#### ${\tt Application.Messaging.Channels.WS.IncludeTimePortionToParseDate}$

Setting this parameter to Yes causes the web services to include the time (hours, minutes, seconds) portions of XSD DateTime elements that would otherwise be converted to calendar dates (such as ToDate and FromDate elements used for time filters). The default value is No.

# Site configuration parameters for synchronization of supplier data with the unified vendor model

Some of the functionality for this feature is controlled by site configuration options, which SAP Ariba sets for you.

#### Application.SM.VendorPushTaskEnabled

Specifies whether or not supplier data is synchronized from the classic supplier organization model to the new unified vendor data model used by SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture) solutions. The synchronization occurs for a limited number of fields and is performed by the SMVendorSyncScheduledTask scheduled task. The default value, No, means that supplier data is not synchronized.

#### Application.SM.VendorContactPushTaskEnabled

Specifies whether or not supplier user data is synchronized from the classic supplier organization model to supplier contacts in the new unified vendor data model used by SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture) solutions. The synchronization occurs for a limited number of fields and is performed by the SMVendorContactPushScheduledTask. The default value, No, means that supplier user data is not synchronized.

#### Application.SM.ITKImportProfileInSM

Specifies whether or not, in solutions where a customer is migrating from using the supplier profile questionnaire to supplier registrations, and has imported a data file mapping between questions in the two questionnaires, extended profile data imported via SAP Ariba integration toolkit or SOAP web service integration is synchronized from the now-inactive supplier profile questionnaire to supplier registrations. The default value, No, means that there is no synchronization for supplier profile questionnaire to supplier registrations.

## **Revision History**

The following table provides a brief history of the updates to this guide. SAP Ariba updates the technical documentation for its cloud solutions if

- software changes delivered in service packs or hot fixes require a documentation update to correctly reflect the new or changed functionality;
- the existing content is incorrect or user feedback indicated that important content is missing.

Ariba reserves the right to update its technical documentation without prior notification. Most documentation updates will be made available the same week the software service packs are released, but critical documentation updates may be released at any time.

Month/Year of Update	Updated Topic	Short Description of Change
July 2018	Sourcing Export File Formats	Added Line Type.
March 2018	Sourcing Event and Sourcing Project Opera- tions	Corrected formatting.
January 2018	<ul> <li>Sourcing Event and Sourcing Project Opera- tions</li> <li>DocumentStatusChange- Notification</li> <li>DocumentURLOutBound</li> </ul>	New web services.
November 2017	<ul><li>Import CLID using XML</li><li>Contract Data File Formats</li></ul>	Added <b>Number</b> and <b>LineType</b> elements and columns for service items.
	About SAP Ariba SOAP Web Service APIs	Updated the information about the applicability of the integration methods in this guide to SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture).

Month/Year of Update	Updated Topic	Short Description of Change
	Using SOAP web service APIs for supplier data integration with the unified vendor model  Data flow for supplier data loaded through SOAP web service APIs into the unified vendor model  Supplier organization data synchronization to the unified vendor model  Organization ID synchronization to ERP vendor IDs in the unified vendor model  Supplier user synchronization to the unified vendor model  Supplier user synchronization to the unified vendor model  Supplier user synchronization to the unified vendor model  Synchronization of supplier profile questionnaire data to the supplier registration questionnaire  Site configuration parameters for synchronizing supplier data to the unified vendor model	Added topics about using SOAP web service APIs for limited supplier data integration with SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture), which use the unified vendor model.
August 2017	Import Contract Line     Items Document     Excel format for contract     line items documents	Information about the new Import Contract Line Items Document service.
July 2017	<ul> <li>Download Contract         Header Fields</li> <li>Download RFX Awards         with Filters</li> <li>Download Document IDs</li> <li>Export Organizations</li> <li>Export Supplier Profiles</li> <li>Site Configuration Options for Integration Services</li> </ul>	Added information about the Application.Messaging.Channels.WS.IncludeTimePortionToParseDate site configuration parameter.

Month/Year of Update	Updated Topic	Short Description of Change
	Download RFX Awards with Filters	Added information about the IncludePendingEvents element and the site configuration option  Application.AQS.AutoEventCompletionWhenAllI temsAwarded.
	Site Configuration Options for Integration Services	Added information about the site configuration option Application.AQS.AutoEventCompletionWhenAllI temsAwarded.
	About SAP Ariba SOAP Web Service APIs	The information in this guide is not applicable to the SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture) solutions.
February 2017	Download Contract     Terms     Export Contract Terms	Added information about support for extracting Contract Line Items Document (CLID) using standard web services.

## **Important Disclaimers and Legal Information**

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