

Integration via JAGGAER

Standard Messaging

JAGGAER enables the client to integrate with an ERP or other systems using XML messages, comma-separated value (CSV) flat files, or both (for some integration points). Data is transmitted directly between JAGGAER and the client's system using standard JAGGAER XML messages or flat files. All integration points must be coordinated through JAGGAER Professional Services to provide guidance and support.

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Integration Method and Approach

For the application and applicable Functional Component (s) referenced in the Statement of Work, JAGGAER to perform configurations and provide guidance to Client on best practice configurations per the scope detailed below.

Client will send/receive JAGGAER messaging in an available JAGGAER standard format (e.g. XML, flat file) and frequency as available for each integration listed below. JAGGAER standard messaging includes the following basic assumptions:

The principles of JAGGAER's methodology include:

- JAGGAER will configure the application to enable the applicable integration(s).
- Client will, as required, update the client file format, as needed, to accommodate the standard JAGGAER message requirements noted in the table(s) below.
- For XML formats, the Client will, as required by the specific integration, transmit/receive the message via HTTPS post.
- For Flat File formats, the Client will, as required by the specific integration, transmit/receive files via a specific sFTP server, as mutually agreed.

Client Responsibilities

In support of the deployment of integrations with the JAGGAER application, the client is responsible for the following:

- Obtain input from the necessary technical resources for the development of the integration specification and design
- Make knowledgeable technical resources available for integration development and testing
- Make the necessary client environments available
- Migrate client-side integration configurations between client environments
- Perform and validate the firewall configuration required for JAGGAER integration. The required configuration is to open a specific set of well-known ports to inbound traffic from a specific list of static IP addresses.

JAGGAER Responsibilities

In support of the deployment of integrations with the JAGGAER application, JAGGAER is responsible for the following:

- Facilitate the design of the integration
- Provide an integration specification
- Provide confirmation on the functionality during testing
- Support client during integration testing and issue resolution
- Migrate JAGGAER application integration configurations between JAGGAER environments
- Provide best practice guidance and expertise
- Provide FTP server for file transmission, if needed

Deliverables

- Technical kickoff
- Integration specification(s)
- Integration(s) enabled in all applicable environments as defined in the statement of work for the project.

Integration Points

JAGGAER integrations include:

User Authentication/Management

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Single Sign-on (SSO) via available methods	SSO enables the client users to maintain their access and authentication in one system, and in many cases to use one central login portal to access many applications.	Client System	CAS, SAML, LDAP, LoginXML
User Import / Synchronization	Import client approval rules and assigned approvers from your ERP system to the JAGGAER application for use in Advanced Dynamic Workflow.	Client System	XML, flat file
User Export	Export Users	Client System	XML

Approval Management

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format (s)</u>
Advanced Dynamic Workflow (ADW) Synchronization	Import client approval rules and assigned approvers from your ERP system to the JAGGAER application for use in Advanced Dynamic Workflow.	Client System	XML, flat file

eProcurement

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Custom Field Import	Import chart of accounts values and parent-child relationships from the client system to the JAGGAER application.	Client System	XML, flat file
Asynchronous Purchase Requisition Validation	Transmit Purchase Requisition data for the purpose of validating its content. For example, the client ERP system can determine the available budget, account code validity, and data accuracy by processing the purchase requisition validation message from the JAGGAER application.	Client System	XML
Purchase Order Export (including PO Changes)	Export Purchase Orders from the JAGGAER application to the client ERP system.	Client System	XML, flat file
Supplier Import	Import new and changed Suppliers from the client ERP	Client System	XML, flat file

Additional Integrations

Purchase Order Import	Import Purchase Orders that are created in the client ERP system to the JAGGAER application for order delivery to suppliers.	Client System	XML, flat files
Purchase Order Status Import	Import Purchase Order status (e.g. closed, cancelled) and limited additional data from the client system.	Client System	XML
Purchase Requisition Export	Export Purchase Requisition data from the JAGGAER application to a client system for review or storage.	Client System	XML, flat files

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Purchase Requisition Import	Import Purchase Requisition data that was created in a client system to the JAGGAER application. This is commonly used to leverage the approval process for requests created in 3rd party applications.	Client System	XML, flat files
Shipping / Billing Address Import	Import BillTo and ShipTo addresses from the client ERP system to the JAGGAER application.	Client System	XML
Item Data Import	Import key item data between JAGGAER's Virtual Item Data module and a client's item management system.	Client System	XML
Contract Item Import	Import contract header and line-item data from a client system to the JAGGAER application.	Client System	XML
Currency Exchange Rate Import	Import currency exchange rates from client ERP	Client System	XML
ASN Export	JAGGAER can export ASNs individually, or batched in a single XML message, and can export them to multiple systems, if required.	Client System	XML

eProcurement (marketplace)

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Punchout from Client procurement system	Provides user access via a punch-out interface, utilizing the cXML standard or Oracle Native cXML standard, from the client's ERP system to the JAGGAER application.	Client System	cXML, oXML, HTMLParam

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Item Data Synchronization	Synchronize key item data between JAGGAER's Virtual Item Data module and a client's item management system.	Client System	XML
Contract Item Import	Import contract header and line-item data from a client system to the JAGGAER application.	Client System	XML

eInvoicing

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Invoice Export	Export invoices and credit memos from JAGGAER application to the client ERP system. If the client is matching invoices in the JAGGAER application, this integration is commonly known as the "ok-to-pay" file	Client System	XML, flat files
Invoice Payment Status Update	Transmit invoice status (e.g. pay status) information from the client ERP system to the JAGGAER application. Client must be able to filter out non-JAGGAER related invoices as those will error. If filtering cannot be done, Client should use JAGGAER Integration-as-a-Service".	Client System	XML, flat files

Additional Integrations

Receipt Export	Export receipt data entered into the JAGGAER application to the client ERP system for the purpose of matching or record-keeping outside of the JAGGAER application.	Client System	XML
Receipt Import	Import receipt data from a client system (e.g. 3rd party receiving application) to the JAGGAER application for the purpose of matching.	Client System	XML

Integration	Description	System	JAG Standard Format(s)
OCR Invoice Import	Transmit scanned invoices/credit memos and invoice data from a client system (e.g. OCR software) to the JAGGAER for review and processing.	Client System	XML
Invoice Validation	Determine the validity of a PO or non-PO invoice based on its content. For example, the client ERP system can determine the available budget, account code validity, and data accuracy by processing the invoice validation message from JAGGAER Invoicing. The ERP system can then reply with a response to approve, return, or reject the invoice.	Client System	XML

Digital Mailroom Integrations

OCR Invoice Import	Transmit scanned invoices/credit memos and invoice data from a client system (e.g. OCR software) to the JAGGAER for review and processing.	Client System	XML, flat file
PO Query	Digital Mailroom (DMR) partners, can implement a standard JAGGAER XML integration for retrieving purchase order (PO) data, in order to validate that the PO exists, or to use the data to ensure a successful subsequent invoice import. The integration point returns basic PO header-level information, such as supplier information, bill-to and ship-to addresses, and document totals, as well as line-level details, such as item details, quantities, and line charges.	Client System	XML

Contracts+

Integration	Description	System	JAG Standard Format(s)
Electronic Signature Integration	Provides integration between the JAGGAER application and supported eSignature software provider.	DocuSign / Adobe Sign	Not Applicable

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
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Additional Integrations

Contract Export	Export contract data from the JAGGAER application to a client system.	Client System	XML
Contract Import	Import contracts from a client system to the JAGGAER application.	Client System	XML
Contract Validation	Validate contract data against a client system (e.g. ERP system, data warehouse, or third-party contract management system).	Client System	XML
Salesforce Integration	Provides standard integration between the JAGGAER application and Salesforce.com.	Salesforce.com	Not applicable

Supplier Management

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Supplier Export to ERP	Transmit supplier data from the JAGGAER application the client system. Supports a response message from the client system with Client-specific unique identifiers.	Client System	XML
Supplier Synchronization	Import supplier data into the JAGGAER application from a client ERP system.	Client System	XML, flat files

Inventory

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Cycle Count Import	Import annual and interval cycle counts	Client System	XML
Inventory Adjustment Export	Export adjustments made to inventory items from the JAGGAER ONE solution to your ERP	Client System	XML

Savings Management

<u>Integration</u>	<u>Description</u>	<u>System</u>	<u>JAG Standard Format(s)</u>
Savings Initiative Export	Provides a means of exporting JAGGAER Savings initiatives to the client ERP.	Client System	XML