Integration Options

SAP Ariba

DB

Deutsche Bahn

SAP

Technical options to integrate

Buyers

Ariba Business Network

Sellers
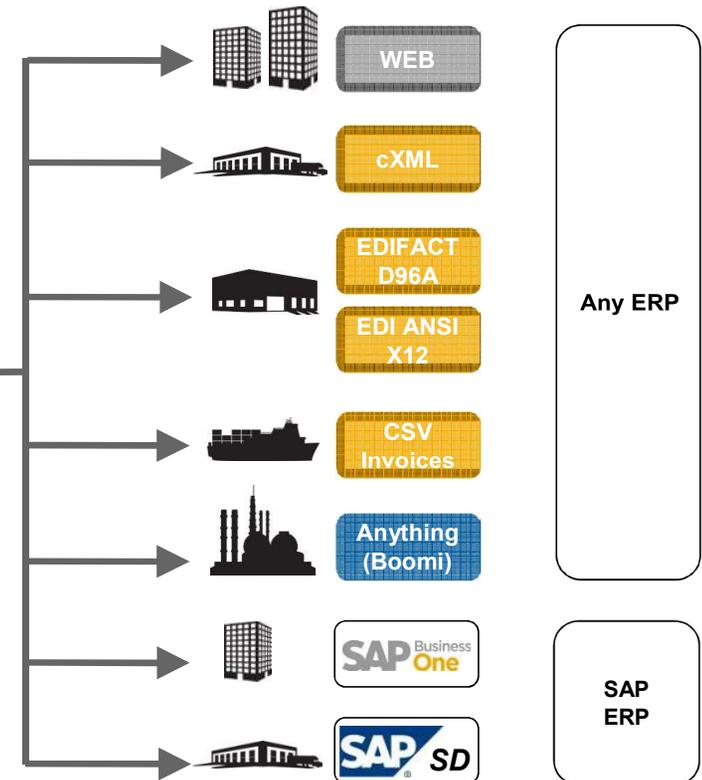
Integration Methods

Ariba Integration method	Recommended volume and infrastructure	AN Transaction Types Supported	Communication Protocol / Connection Type	Subscription level	Comments
cXML	> 500 (PO <u>or</u> INV) / year • existing integration capability	All (Ariba supported)	HTTPS	Premier and above	• Ariba Standard • Must adhere to Ariba cXML guides • Attachment is supported • Supported for Mexican tax einvoice
EDI - EDIFACT <u>**D96A**</u>	> 500 (PO <u>or</u> INV) / year • existing EDI infrastructure	* ORDERS (Purchase Order) * INVOIC (Invoice) * DESADV (Shipping note) * CONTRL (Functional Acknowledgment)	VAN*** / AS2 (Service Request needs to be submitted for connectivity setup)	Premier and above	• Industry Standard • Must adhere to the relevant Ariba EDI guide • Attachment are not supported • Following doc. types are **NOT** supported: **Order Confirmation**, Summary invoice with line item details, Remittance Advice, Service Entry Sheet • Extrinsic can only be 10 at header and 5 at line level • Scheduling agreement release only supported with CsC buyer • Not supported for Mexican einvoice
EDI - ANSI X.12	> 500 (PO <u>or</u> INV) / year • existing EDI infrastructure	* 810 (Invoice) * 820 (Remittance advice) * 850 (Purchase Order) * 855 (Order confirmation) * 856 (Shipping note) * 997 (Functional Acknowledgment)	VAN*** / AS2 (Service Request needs to be submitted for connectivity setup)	Premier and above	• Industry Standard • Must adhere to the relevant Ariba EDI guide • Attachment are **not** supported • Following doc. types are NOT supported: Summary invoice with line item details, BPO, Service Entry Sheet • Multiple currency on invoice not supported, extrinsic can only be 12 at header and 5 at line level • Scheduling agreement release only supported with CsC buyer • Not supported for Mexican einvoice
CSV **(Customer Specific Template)**	>300 (INV) / year • lack of infrastructure for cXML/EDI	• Invoice • Order Confirmation • Advanced Ship Notice	Manual upload via AN	Premier and above	• Only if buyer enabled this functionality. Supplier must check with supplier manager if this is available for the project • CSV Format/template specific to a Buyer and cannot be used generically for another Buyer • Attachment can be uploaded against each invoice via a UI when loading the CSV • Not supported for Mexican einvoice

Integration Methods (cont'd)

Ariba Integration method	Recommended volume and infrastructure	AN Transaction Types Supported	Communication Protocol / Connection Type	Subscription level	Comments
adapter • **Flat file** • **XML** • **EDI** • **Database** DELL Boomi	> 500 (PO or INV)/year • no need for additional Infrastructure/software	All (Ariba supported)	• Database • Disk • FTP • HTTP/S	Enterprise (Dell Boomi Standard) or Enterprise Plus (Extended)	• Any format can be supported • Prebuilt template to connect Sage 50 Peachtree; Intuit Quickbooks; MS Dynamics (great plains) to Ariba Network • Attachment is supported • Supported for Mexican einvoice (requires customization) • No calculation (incl. rounding) supported via BOOMI. Mapping provider should not alter figures on invoice source file as he may become liable in case of tax audit. • SOW is always needed. SOW can only be requested via Commerce Assistance team @ CommerceAssistance@ariba.com. **NB: Always provide sample and detailed specification of source message**
SAP Business One adapter	No upper or lower recommended volume	• Sales Order • Shipment notice • Invoice • Remittance Advise	HTTPS	Premier and above	• Version of the ERP 9.0 or higher • Must adhere to Ariba cXML guides • Attachment is supported • Supported for Mexican einvoice (requires customization)
SAP SD ADDON Adapter	No upper or lower recommended volume	• Sales Order • Advance Ship Notice • Invoice	HTTPS Direct (SD ADDON) Mediated (PI)	Premier and above	• Supported ERP releases: ERP 6.0 ; ERP 6.0 EhP2; ERP 6.0; EhP3; ERP 6.0 EhP4; ERP 6.0 EhP5; ERP 6.0 EhP6; ERP 6.0 EhP7 • Doc Type for which standard mapping is not available at the moment: Order confirmation; / Custom mapping needed from supplier side • Must adhere to Ariba cXML guides • Attachment is supported • SD ADDON is free of charge • Supported for Mexican einvoice (requires customization)

cXML - deep dive

- **cXML** (commerce eXtensible Markup Language): The native language of the Ariba Supplier Network

- A protocol for real-time communication between buyer and supplier systems

- Humanly legible fields and data

- Some business applications can use cXML directly / If not, use any XML-aware EAI or middleware system or build a cXML translator from scratch using any language such as .Net, Java, or C++

- DTD schema / not XSD!

- Communication Protocol is HTTPS
  - Ariba performs an https post to the URL a supplier configures in their AN account.
  - Suppliers post inbound documents to Ariba's https URL

EDI - deep dive

- EDI Formats:
  - ANSI X12 / ANSI ASC X12 version 004010 American National Standards Institute Accredited Standards Committee X12
  - EDIFACT / version D96A with syntax version 3 – for European-based Suppliers

- EDI Document Transport / size of the EDI interchanges must be smaller than 60 MB/
  - VAN (Value Added Network)
  - AS2

- Ariba Translator:
  - Translates EDI document to/from cXML format
  - Data in cXML documents might be captured differently than EDI

- Limitations
  - Following doc. types are NOT supported:
    - EDIFACT: Oder Confirmation (ORDRSP); Remittance Advice (REMADV) Summary invoice with line item details, Service Entry Sheet
    - ANSI: Summary invoice with line item details, BPO, Service Entry Sheet
  - Limitation on structure: Limited number of extrinsics (fields for additional information supported), e.g. for EDIFACT – 10 at header level and 5 at line level;
  - Scheduling agreement release (DELFOR and DELJIT) only supported with CsC buyer

CSV (Comma Delimited Value) - deep dive

- AN Supports the transfer, transformation and loading of comma delimited files (CSV);
- Supported Documents:
  - Invoice
  - Order Confirmation
  - Ship Notice
- Invoices submitted through CSV upload have the following requirements:
  - Cannot be greater than 10,000 lines or total 40 MB in size.
  - Up to 100 MB attachments on the network.

- Flow:
  - Supplier downloads csv invoice template (specific to each customer)
    - OC and ASN templates not customized per customer
  - Template needs to be populated, without changing the format

	A	B	C	D	E	F	G	H	I
1	8859_1								
2	_csv_version:1.0	_csv_serial:1336555804462	_csv_type:invoice						
3	invoiceID	invoiceDate	orderID	orderDate	agreementID	salesOrderNumber	originalInvoiceNumberReference	purpose	isTaxInLine
4	123456789	11/05/2013	PO123	10/05/2013		AB12345		standard	Y

  - Supplier uploads the file for the respective customer on AN
  - AN translates csv content to cXML invoices

Thank you