



proudly present:

Ariba Network Integration to SAP ECC

- Mark Willner
 - Principal Technical Solutions Consultant
 - Ariba an SAP Company
 - » October 2014

CLOUDDEVELOPERS

Mobile, Big Data & Service Models:
Critical Take-Aways for Cloud Developers

SUMMIT & EXPO 2014

ERP Materials Management Core Integration Scenario

Ariba Collaborative Commerce, Ariba Collaborative Finance



Buyer Connectivity

Buyer



PeopleSoft

ORACLE

ORACLE

JD EDWARDS ENTERPRISEONE



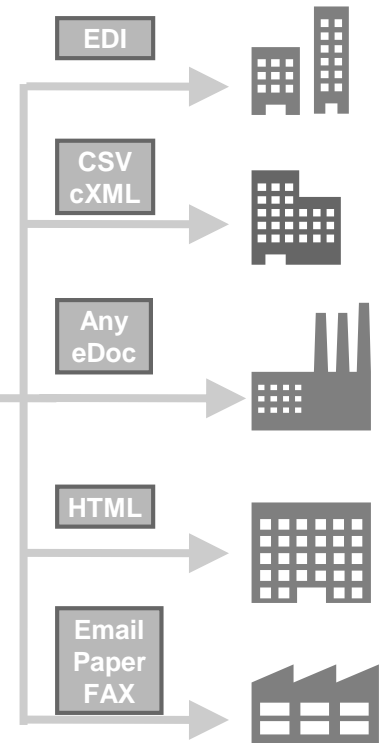
maximo



Ariba Business Network



Trading Partners



Ariba Network – Buyer View



INVOICE RULES

[View Invoice Rule Results](#)

General Invoice Rules

Allow suppliers to send invoices to this account.	<input checked="" type="checkbox"/>
Ignore country-based invoice rules.	<input checked="" type="checkbox"/>
Allow suppliers to send invoices with service information. i	<input checked="" type="checkbox"/>
Require line-item credit memo to reference another invoice.	<input type="checkbox"/>
Allow suppliers to send invoice attachments.	<input checked="" type="checkbox"/>
Your procurement application can download invoice attachments (MIME multipart messages).	<input checked="" type="checkbox"/>
Allow suppliers to send non-PO invoices. i	<input checked="" type="checkbox"/>
Allow suppliers to send invoices with a contract reference. i	<input checked="" type="checkbox"/>
Require suppliers to create an order confirmation for the PO before creating an invoice. i	<input type="checkbox"/>

PO1044	<input type="checkbox"/>	Flowers.com	AN02000003061	Email	No	● ● ● ● ●	Tasks Completed	Actions	USD	Original		
Supplier	<input type="checkbox"/>	123 Pest Removal	Z9999991 AN02000000166	Email	No	● ● ● ● ●	Active	Actions	USD	Original		
PO1044	<input type="checkbox"/>	A-Z Factory Supply	AN02000191306	Email	No	● ○ ○ ○ ○	Tasks Completed	Actions	USD	Original		
Supplier	<input type="checkbox"/>	A. K. Consultants SA	20203	None	\$100.00 USD	5	No	● ● ● ● ●	Active	Actions	USD	Original
PO1044	<input type="checkbox"/>	Aspen...	AN02000177469	Email	No	● ○ ○ ○ ○	Active	Actions	USD	Original		

Ariba Network – Supplier View

Catalogs

Manage catalogs for your customers using the catalog dashboard. Catalog files must be CIF, cXML, or Excel files (.cif, .xml, .xls or .zip). Some customers might have defined specific catalog validation ...

Catalogs								Page 1 ▾	
Catalog Name	Version	File Name	Type	Size	Date Created ↓	Status	Date Status Received		
▶ Customer Name: None (28)									
▼ Customer Name: Abbatco Enterprises (4)									
<input type="radio"/>		JCN_DP_Test_1	4	JCN CIF30template Errors.xls	CIF3.0	1 KB	11 Jan 2007	2 Errors Found by Ariba Network	
<input type="radio"/>		JCN DP Test 1	3	JCN CIF30template.xls	CIF3.0	2 KB	11 Jan 2007	Validated	
<input type="radio"/>		JCN DP Test 1	2	JCN CIF30template.xls	CIF3.0	2 KB	11 Jan 2007	Validated	
<input type="radio"/>		JCN DP Test 1	1	Copy of CIF30template.xls	CIF3.0	2 KB	11 Jan 2007	Validated	
▶ Customer Name: ABC Company (6)									
▼ Customer Name: AccentureEMEA (1)									
<input type="radio"/>		Lansoft Catalog	1	Lansoft.cif	CIF3.0	1 KB	11 Feb 2014	Pending Buyer Validation	
▶ Customer Name: ACME Corporation (1)									
▶ Customer Name: Amerisource Bergen (9)									
▼ Invoice Status: Paid (9)									
<input type="radio"/>		dh.051814.inv	Global Enterprise	dh.051814.po	Online	Purchase Order	18 May 2014	\$62,893.20 USD	Acknowledged
<input type="radio"/>		2014_001	US1Int	C887-V2-R213	Paper Invoice	Purchase Order	7 May 2014	\$120.00 USD	Acknowledged
<input type="radio"/>		dqsINVa	US1Int	C887-V3-R992	Online	Purchase Order	29 Apr 2014	\$16.94 USD	Acknowledged
<input type="radio"/>		tmh.inv.1023	Global Enterprise	tmh.po.1023	Online	Purchase Order	7 Apr 2014	\$3,130.00 USD	Acknowledged

Pre-Packaged Integration Options for SAP and Other Customers



1. **SAP Direct Integration**
2. **Ariba SAP PI Adapter + RDS**
3. **Oracle Adapter**
4. **Customer Adapter**
5. **Open Adapter**

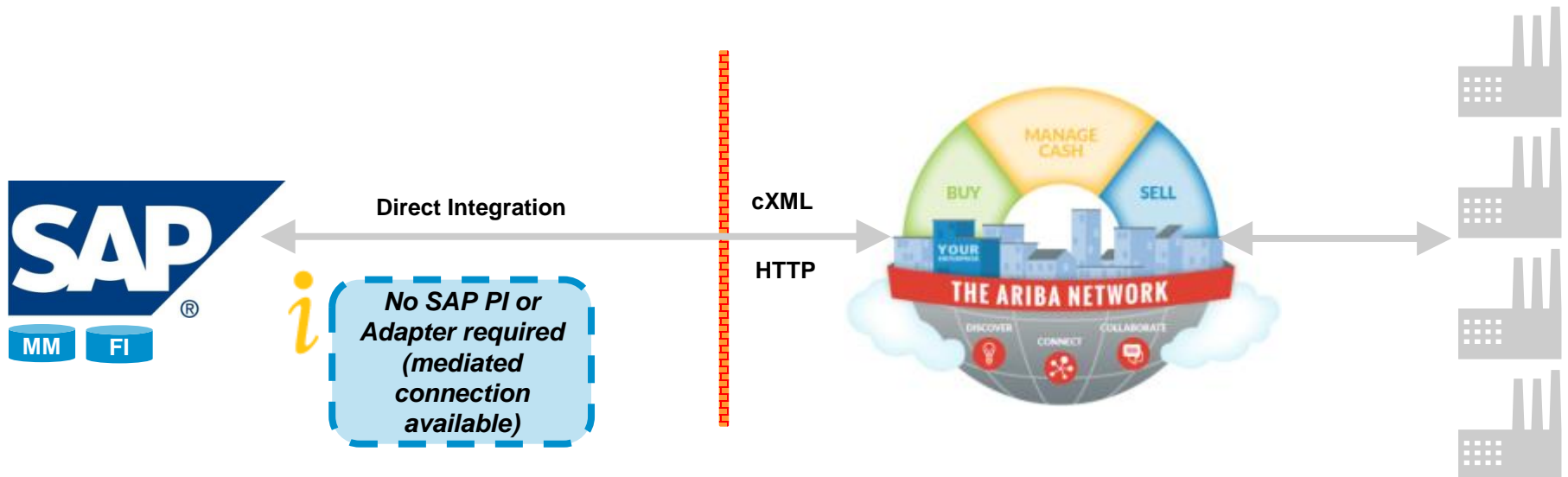
Integration to buyers SAP environment

SAP AddOn - Direct ERP Integration

Buyer

Ariba Business Network

Trading Partners

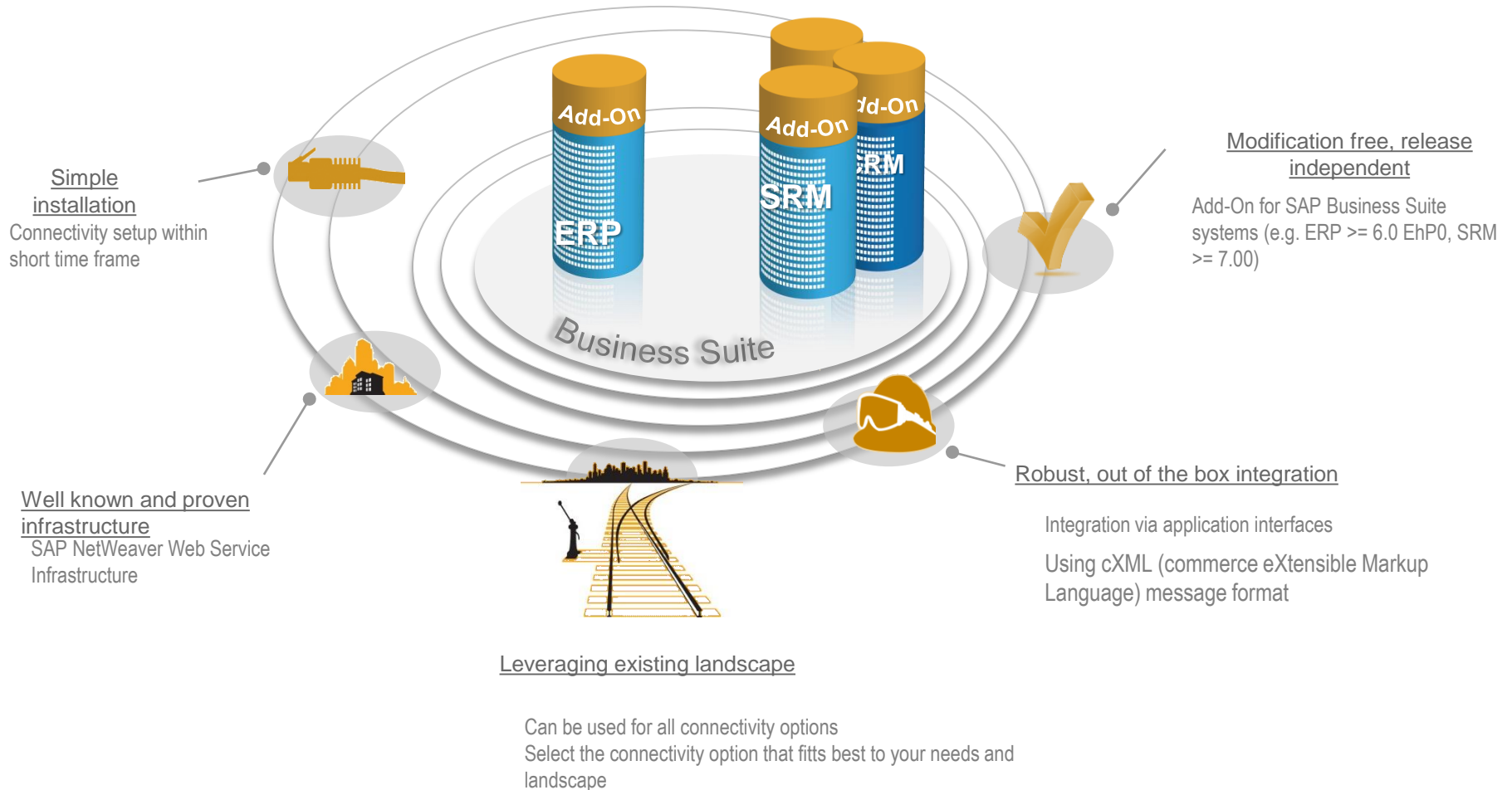


SAP Add-On Document Support

DOCUMENT TYPE	DIRECTION	SAP INTERFACE	ADD-ON SUPPORTED
PURCHASE ORDER CREATE	OUTBOUND	ABAP PROXY	YES
PURCHASE ORDER CHANGE	OUTBOUND	ABAP PROXY	YES
ORDER CONFIRMATION	INBOUND	ABAP PROXY	YES
SHIPPING NOTE	INBOUND	ABAP PROXY	YES
INVOICE / CREDIT MEMO	INBOUND	ABAP PROXY	YES
INVOICE STATUS	OUTBOUND	ABAP PROXY	YES
ERP INVOICE	OUTBOUND	ABAP PROXY	YES
PAYMENT PROPOSAL	OUTBOUND	ABAP PROXY	YES
PAYMENT REMITTANCE / UPDATE	INBOUND	ABAP PROXY	YES
PAY-ME-NOW	OUTBOUND	ABAP PROXY	YES

SAP Suite Add-On for Ariba Integration

Main Benefits

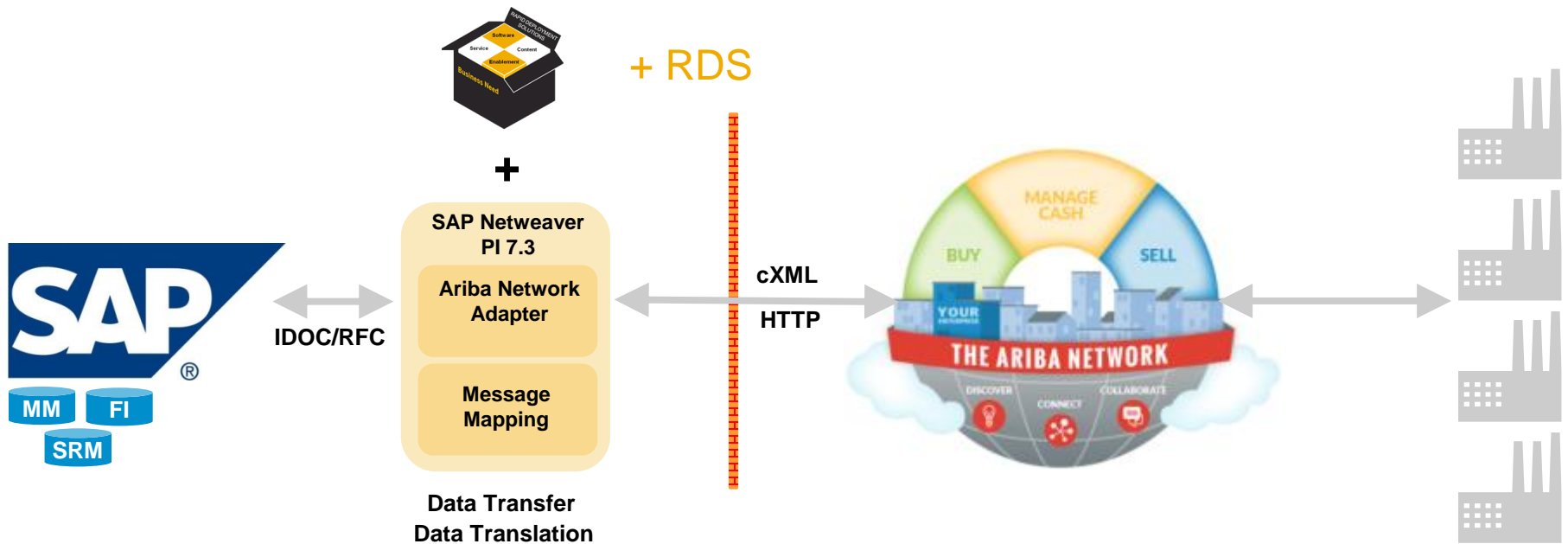


Integration to buyers SAP environment

Ariba SAP Netweaver PI Adapter

Buyer

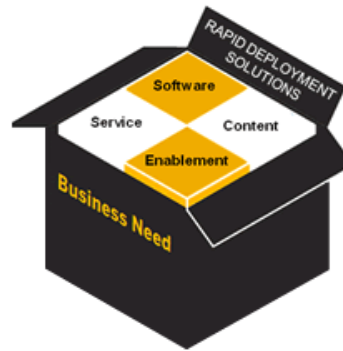
Ariba Business Network Trading Partners



What is an RDS? (Rapid Deployment Services)

RDS is an add-on service to Ariba Collaborative Commerce delivering:

- Fast baseline implementation – just 4 – 7 weeks to deploy
- Clearly defined scope
- Predictable costs



SAP consultants will install the Ariba Network PI Adapter, message mappings, and configure PI to fully integrate SAP ERP with the Ariba Network, connecting up to 10 suppliers

SAP PI Document Support

DOCUMENT TYPE	DIRECTION	SAP INTERFACE	NAME VERSION	ADAPTER SUPPORTED
PURCHASE ORDER CREATE	OUTBOUND	IDOC	ORDERS05.ORDERS	YES
PURCHASE ORDER CHANGE	OUTBOUND	IDOC	ORDERS05.ORDCHG	YES
ORDER CONFIRMATION	INBOUND	IDOC	ORDERS05.ORDRSP	YES
ORDER QUERY	OUTBOUND	RFC	(CI-4)	(CI-4)
SHIPPING NOTE	INBOUND	IDOC	DESADV01 / DELVRY06	YES
GOODS RECEIPT	OUTBOUND	ABAP PROXY	CUSTOM	YES
INVOICE / CREDIT MEMO	INBOUND	IDOC	INVOIC02	YES
INVOICE STATUS	OUTBOUND	ABAP PROXY	CUSTOM	YES
ERP INVOICE	OUTBOUND	ABAP PROXY	CUSTOM	YES
PAYMENT PROPOSAL	OUTBOUND	ABAP PROXY	CUSTOM	YES
PAYMENT REMITTANCE / UPDATE	OUTBOUND	IDOC	REMADV.PEXR2001	YES
PAY-ME-NOW	INBOUND	IDOC	FIDCCH.FIDCCH01	YES
SPOT QUOTE	OUTBOUND	IDOC	ORDERS05.REQOTE	YES
SPOT QUOTE AWARD	INBOUND	BAPI	BAPI_ARBA_QUOTE	YES
SERVICE ENTRY REQUEST	INBOUND	RFC	BAPI_ARBA_ENTRYSHEET	YES
SERVICE ENTRY RESPONSE	OUTBOUND	ABAP PROXY	CUSTOM	YES

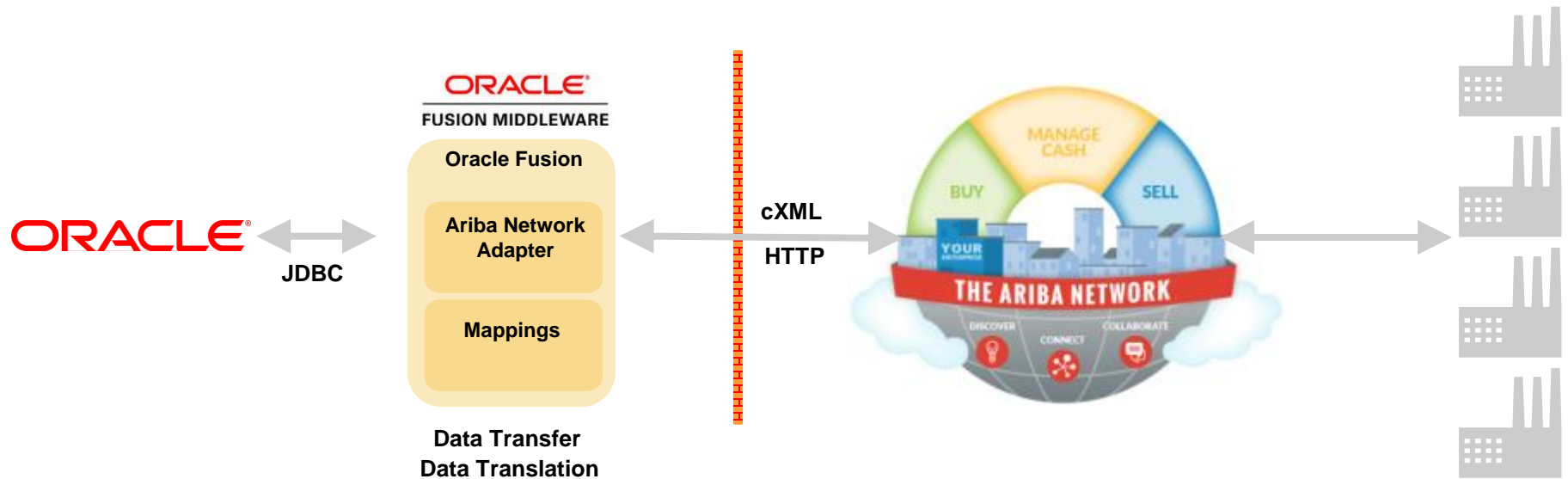
Integration to buyers Oracle environment

Ariba Oracle Fusion Adapter

Buyer

Ariba Business Network

Trading Partners



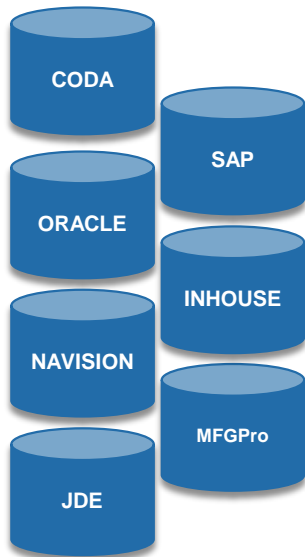
Integration to buyers ERP environment

Customer Adapter

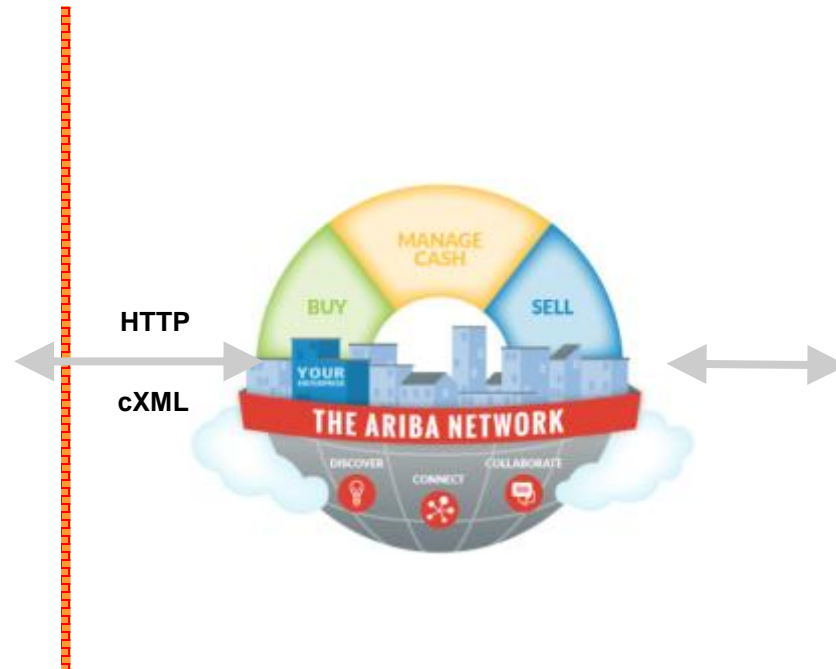
Buyer

Ariba Business Network

Trading Partners

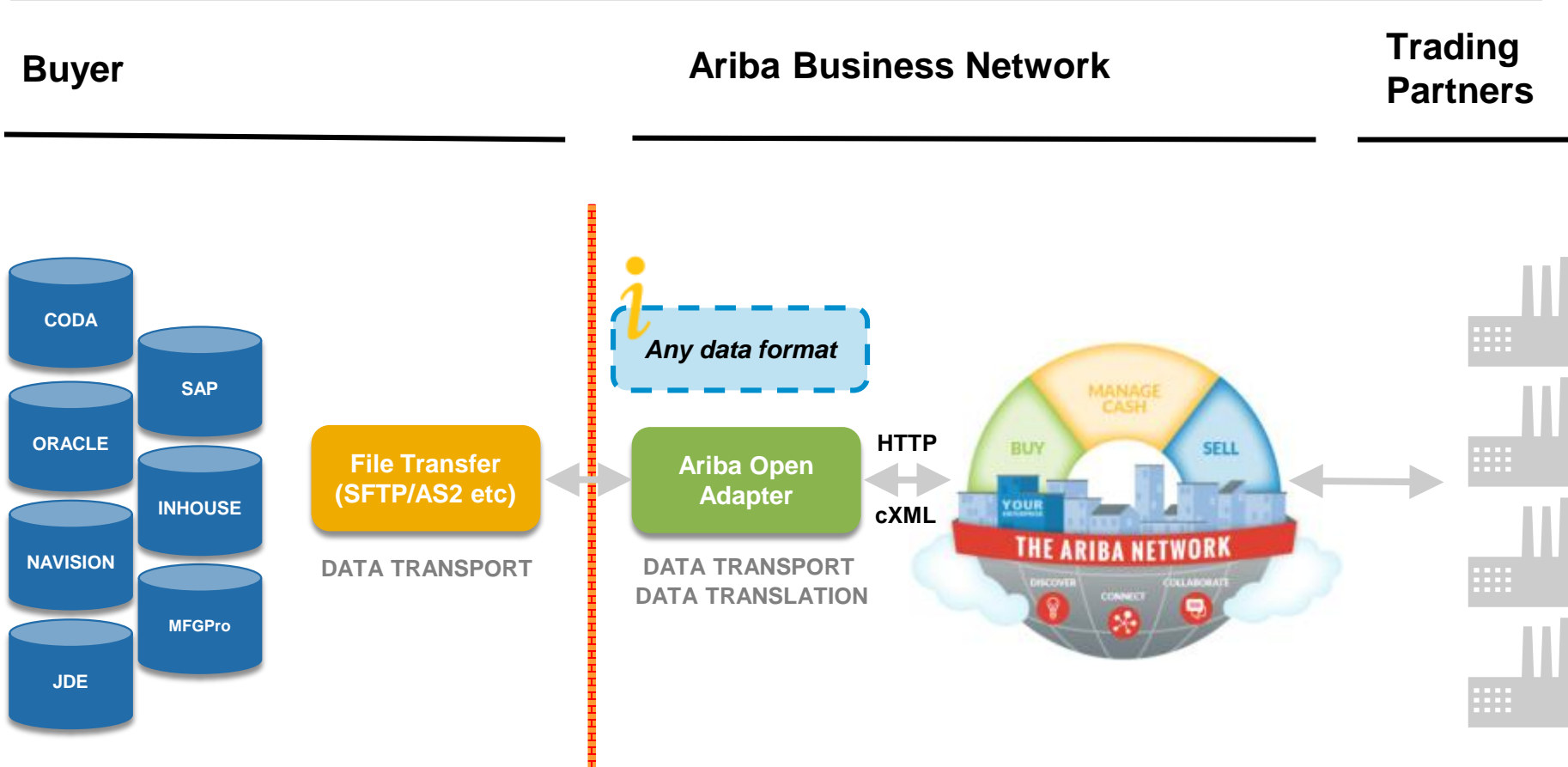


TIBCO
The Power of Now™
WebSphere®
webMethods
Microsoft®
BizTalk Server
DATA TRANSPORT
DATA TRANSLATION



Integration to buyers ERP environment

Ariba Open Adapter



cXML Attachment Support

Ariba supports attachments for the following cXML transactions

Purchase order

Order confirmation

Advanced Shipping Notice

Invoice

Ariba supports two methods

Embedded within cXML message (Base64 encoded)

External reference link to server location

Attachments such as PDF, JPG, .DOC, TXT etc. are supported.

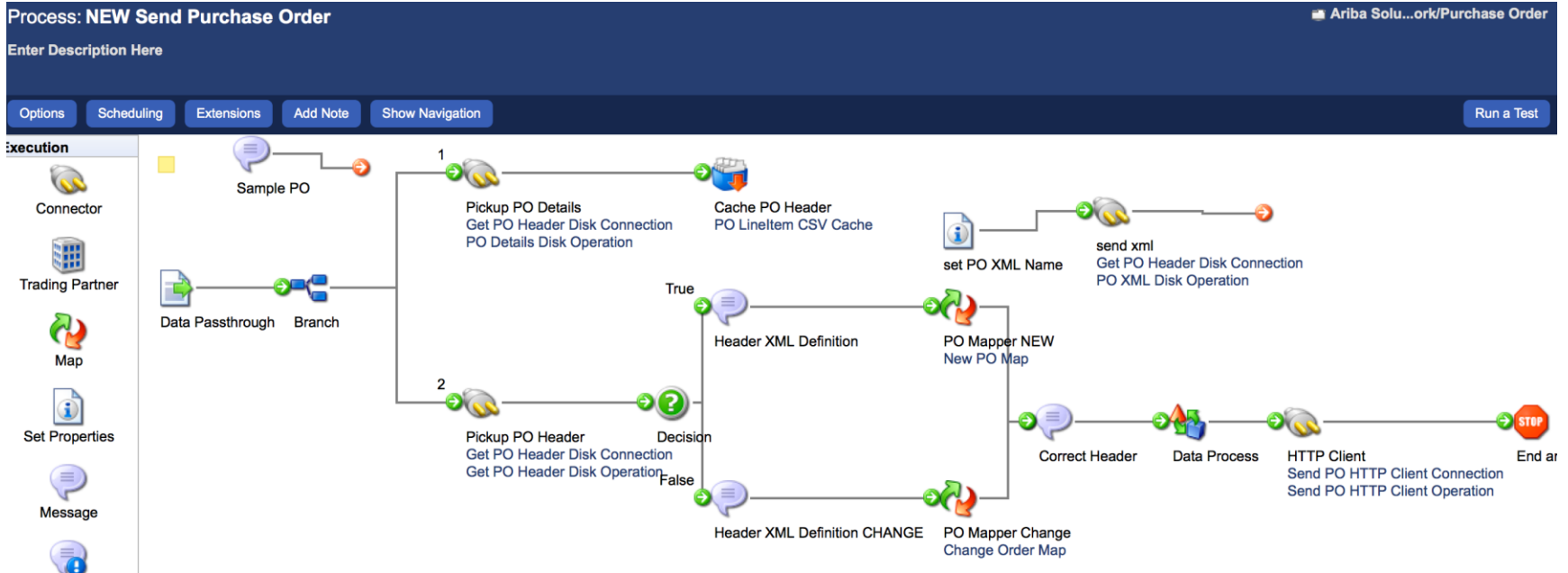
Max size limit to both inbound & outbound messages is 10 MB (Includes attachment)

Error Handling

The PI Runtime Work Bench and the Integration Engine Monitor (transaction SXMB_MONI) are used to track error messages and email notifications, and to notify users about errors in inbound processing (getPending transaction).

The cXML Adapter notification emails include an Ariba Network Adapter for SAP NetWeaver error code, and a response status code. The response status code refers to the cXML error/status codes received from the server. The cXML status codes indicate success, transient errors, or permanent errors. The status code range 2xx denotes success, 4xx denotes permanent errors, and 5xx denotes transient errors.

DEMO – Generate a PO



Sample XML

<http://www.cxml.org>

cXML Commerce XML Resources **cxml.org**

Current Version: 1.2.025

Version 1.2 Now Available **News** Download cXML Version 1.2.025 [Here](#).

Downloads

Latest Release Notes
This HTML document describes changes to the cXML protocol after cXML 1.1 was published.
[Release Notes](#)

User's Guide in PDF Format
This document describes how to use cXML 1.2.025 (commerce eXtensible Markup Language) for communication of data related to electronic commerce. This document is intended for programmers designing cXML-enabled applications. It contains all the information you need to implement any of the supported transactions from either the client or the server system perspective (with an emphasis toward suppliers that are modifying their e-commerce Websites for PunchOut). Both the protocol interactions and business documents contained in the transactions are discussed in depth.
[cXML 1.2.025 User's Guide](#)

Send us your comments on cXML.
comments@cxml.org

- [xml.com](#)
- [xml.org](#)
- [w3.org](#)
- [biztalk.org](#)
- [ontology.org](#)

Ariba Network Adapter for SAP NetWeaver PI

Ariba® Network

Ariba Network Adapter for SAP NetWeaver® Setup Guide

Release 11s2

Document Version 2

October 2011

Table of Contents

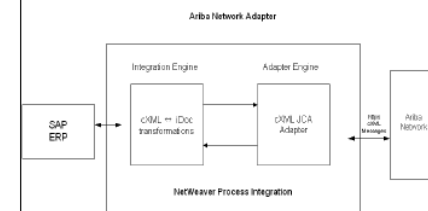
Revision History	
Chapter 1 Ariba Network Adapter	
Overview	
Requirements	
Installation Requirements	
Guidelines for Upgrading from SAP NetWeaver PI	
Downloading the Latest Installation Package	
Upgrading the cXML Adapter	
Importing the New Mapping Library	
Setting Up the cXML Adapter	
Understanding cXML Adapter Doc	
Deploying the cXML Adapter	
Configuring the Log	
Configuring the cXML Adapter	
Enabling Support for Attachments	
Attachments Support in cXML	
Outbound Documents	
Inbound Documents	
Limitations	
Enabling Support for Attachments	
Configuring	
Configuring the System Landscape Directory	
Importing Ariba Network Product Data	
Defining Technical and Business Systems	
Defining Technical and Business Systems	
Defining Technical and Business Systems	
Configuring Transaction Processes	
Importing the Design Package	
Configuring R/3 Connectivity	
Configuring SAP NetWeaver PI via SAP NetWeaver PI	
Configuring Integration Scenarios	
Linking Multiple SAP instances with SAP NetWeaver PI	
Data Element Mapping	
Supported cXML Transactions	
Configuring Supplier Quick Enable	
Configuring AN Pay	
Customizing Data Mappings	
Enabling Migration of Mapping Currencies	
Testing the Configuration	
Testing Processes	
Understanding Error Handling	
Deploying the Project	
Ariba Network Certification	

Ariba Network Adapter for SAP

- The design package, which contains integration processes, interface objects, and mappings to convert IDoc to cXML and cXML to IDoc
 - The cXML Adapter, which conforms to the J2EE Connector Architecture (JCA) specification, and implements the cXML transport protocol
- For more information about the JCA specification, see the relevant section on the Sun Java web site (<http://www.java.sun.com>)
- The *Ariba Network Adapter for SAP NetWeaver Setup Guide* (this document) illustrating the deployment and configuration processes of the Ariba Network Adapter integration package within SAP NetWeaver PI.

Figure 1 illustrates how the Ariba Network Adapter for SAP NetWeaver enables the communication flow between Ariba Network and the SAP ERP system.

Figure 1 Architecture Overview



SAP NetWeaver PI is a platform for process integration within SAP NetWeaver. It facilitates cross-system business processes. In particular, it enables different versions of SAP and non-SAP systems from different vendors running on different platforms to communicate with each other.

SAP NetWeaver PI integrates the following components used by the Ariba Network Adapter for SAP NetWeaver and its modules:

- The Business Process Engine is a runtime component of the SAP NetWeaver PI Integration Server. It processes the integration processes at runtime.
- The Integration Engine is the central runtime component of the SAP NetWeaver PI Integration Server used for receiving, processing, and forwarding messages.
- The Adapter Engine is a runtime component of the SAP NetWeaver PI Integration Server. It uses adapters to connect the Integration Engine to SAP systems (RFC adapter) and external systems.

▼ **To use the Ariba Network Adapter for SAP NetWeaver:**

- 1 Ensure that you have met all the software and connectivity requirements described in "Requirements" on page 8.
- 2 Configure an Ariba Network account. For more information, see "Installation Requirements" on page 8.
- 3 Install and configure the cXML Adapter and Log mechanism. For more information, see "Setting Up the cXML Adapter" on page 11.



Q&A - Discussion

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli and Informix are trademarks or registered trademarks of IBM Corporation.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Oracle is a registered trademark of Oracle Corporation.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.

JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company.

Sybase and Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere, and other Sybase products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Sybase, Inc. Sybase is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

The information in this document is proprietary to SAP. No part of this document may be reproduced, copied, or transmitted in any form or for any purpose without the express prior written permission of SAP AG.

This document is a preliminary version and not subject to your license agreement or any other agreement with SAP. This document contains only intended strategies, developments, and functionalities of the SAP® product and is not intended to be binding upon SAP to any particular course of business, product strategy, and/or development. Please note that this document is subject to change and may be changed by SAP at any time without notice.

SAP assumes no responsibility for errors or omissions in this document. SAP does not warrant the accuracy or completeness of the information, text, graphics, links, or other items contained within this material. This document is provided without a warranty of any kind, either express or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, or non-infringement.

SAP shall have no liability for damages of any kind including without limitation direct, special, indirect, or consequential damages that may result from the use of these materials. This limitation shall not apply in cases of intent or gross negligence.

The statutory liability for personal injury and defective products is not affected. SAP has no control over the information that you may access through the use of hot links contained in these materials and does not endorse your use of third-party Web pages nor provide any warranty whatsoever relating to third-party Web pages.