

Support Technical Exchange:

Maximo Enterprise Adapter for SAP Applications

Upgrade Planning from Maximo 6.2 to 7.5

Mimi Ahn, Design/Architecture mimia@us.ibm.com

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Introduction

- This presentation provides information for the Maximo Enterprise Adapter for SAP Applications customer who wants to upgrade their Maximo Asset Management (MAM) version 6.2 to 7.5.

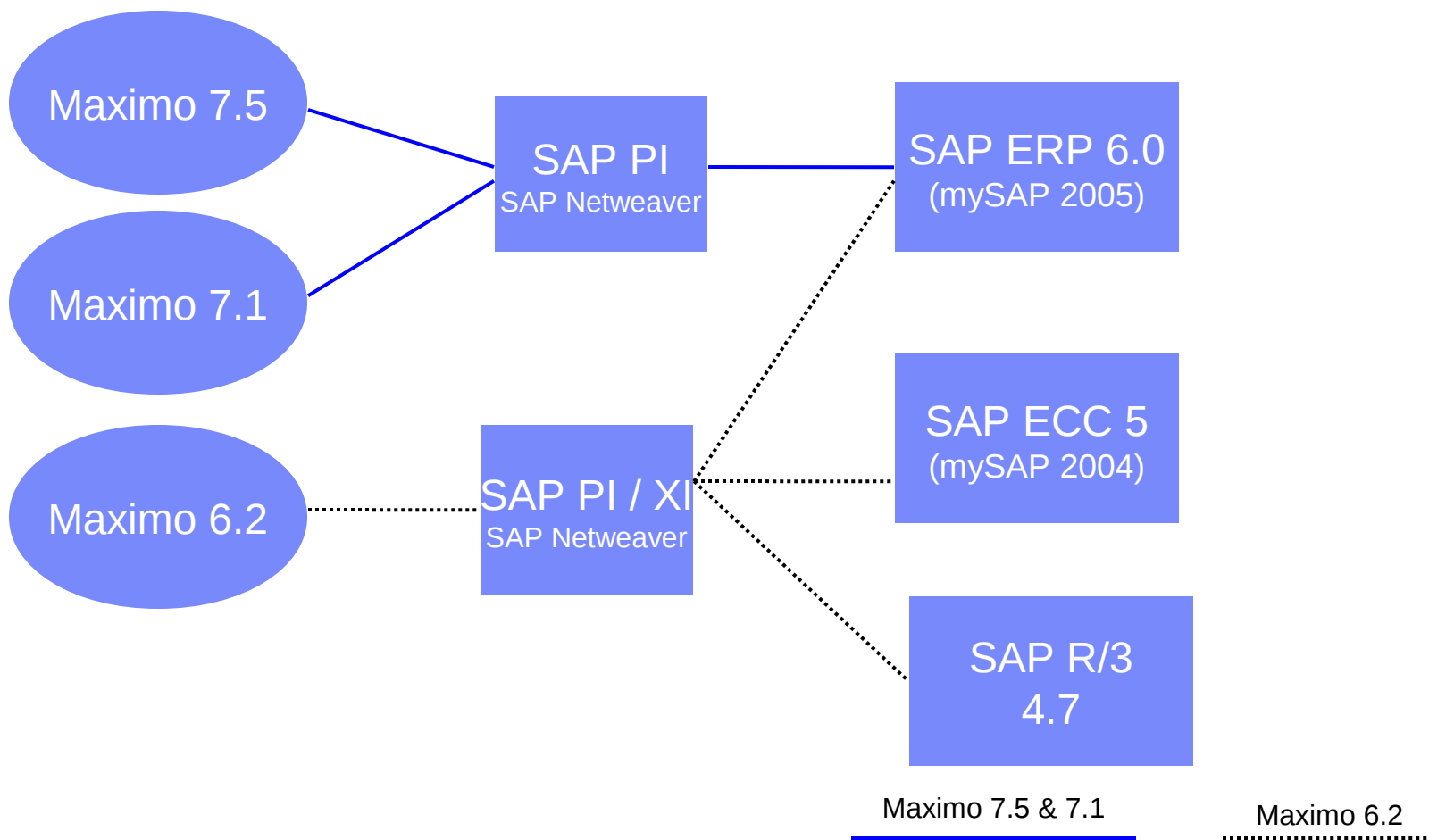
- Objectives:
 - Will know the enhancements of the MAM 7.1 and 7.5
 - Will know how to plan their upgrade

Agenda

- Supported Versions
- What's new in MX 7.1 released?
- What's new in MX 7.5 released?
- Upgrade Planning
- Maximo Enterprise Adapter with the different SAP ERP versions
- Material References

IBM Maximo Enterprise Adapter for SAP Applications

- The standard SAP Adapter has been verified on the following Maximo and SAP version combinations.



What's New in MEA SAP 7.1 released?

- Changes in Maximo
 - Item Status
 - Maximo Integration Framework (Maximo Enterprise Adapter)
 - End Points
 - External System
 - Integration Controls
 - Object Structures
 - Publish Channels
 - Outbound Interfaces
 - Enterprise Services
 - Inbound Interfaces
 - Message Reprocessing
 - Message Tracking

What's New in MEA SAP 7.1 released? – (cont.)

- Name changes in SAP
 - SAP mySAP2005 changed to “SAP ERP 6.0”
 - SAP XI changed to “SAP Process Integration (PI)”

- Changes in SAP Adapter
 - New BAPIs
 - SAP Purchase Requisitions (me51n)
 - SAP FI Invoices
 - SAP GL Postings
 - Time Reporting to CO
 - Enable SAP Adapter CO Posting report to run multiple times a day

What's New in MEA SAP 7.5 released?

- Chart of Accounts (Inbound)
 - Supports multiple SAP Chart of Accounts in one Maximo DB
 - Maximo 7.5 enhanced General Ledger account structures which can be configured for multiple organizations in one Maximo DB

- Item Stock and Non-stock
 - Keeps all the SAP owned items as the stocked
 - Use REORDER flag to indicate the stock or Non-stock

- Purchase Order Revision (Inbound/Outbound)
 - SAP Adapter supports this new Maximo 7.5 enhancement in various inbound and outbound PR/PO/Receipts/Invoices integrations

What's New in MEA SAP 7.5 released? – (cont.)

▪ Receipt Tolerance

- SAP Adapter supports the following integrations for this new Maximo 7.5 enhancement
 - ITEM (INBOUND)
 - INVENTORY (INBOUND)
 - INVVENDOR (INBOUND)
 - PO (IN/OUTBOUND)
 - RECEIPTS (IN/OUTBOUND)
 - INVOICE (IN/OUTBOUND)

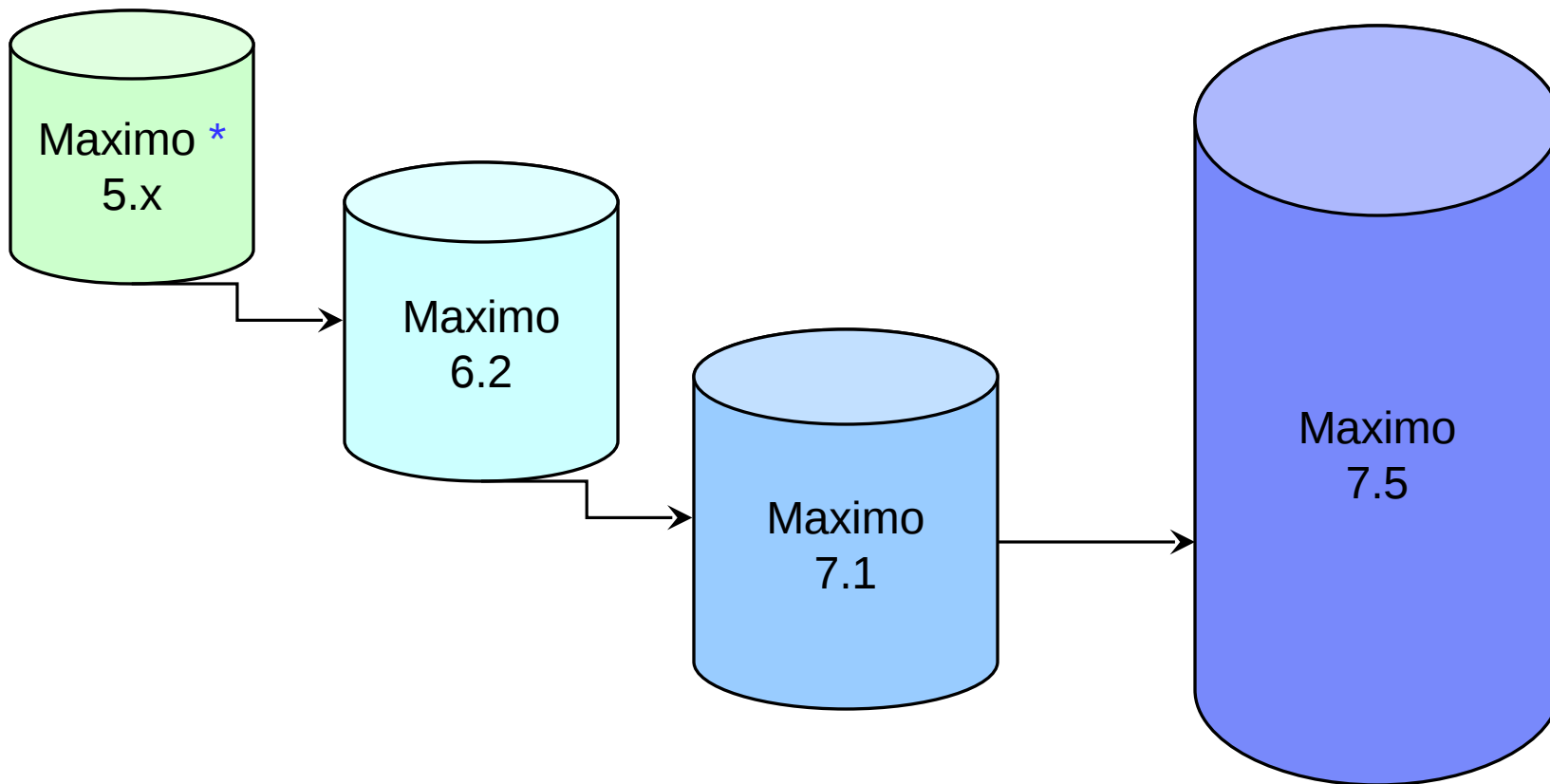
▪ Invoice Integrations

- Centralizing Invoice within same Organization (Inbound/Outbound)
 - Maximo 7.5 enhanced invoice application. One invoice can have multiple purchase orders from different sites for one invoice site. SAP Adapter invoice integration no longer needs to split one invoice into multiple invoices in Maximo (Invoices from SAP to Maximo).
- Invoice Reversals for the Approved/Paid Invoice (Inbound/Outbound)
 - Ability to reverse the original invoice that contains errors without a return of goods transaction.
- Invoice General Ledger (G/L) Posting Date (Inbound/Outbound)
 - Added new G/L posting date to determine the financial period.

▪ Reservation (Outbound)

- Supports Maximo Hard/Soft reservation by using SAP 'Requirement Urgency'

Upgrading to Maximo 7.5



* **Ordering Previous Maximo Upgrade Utilities**

To order the Maximo 4-5, 5-6 upgrade packages, please complete the attached Maximo Upgrade Request Document and email to mxprdreq@us.ibm.com.



[MaximoProductRequestFormv5.doc](#)

Upgrading Maximo Enterprise Adapter for SAP Applications to 7.5

- Customers from MX 7.1 to 7.5
 - Customers on Maximo Asset Management version 7.1 must upgrade to version 7.5 and then install Maximo Enterprise Adapter for SAP Applications 7.5

- Customers from 6.2 to 7.5
 - Must do the Maximo 6.2 to 7.1 upgrade then install version 7.5, and finally install Maximo Enterprise Adapter for SAP Applications version 7.5

Maximo Upgrade Resources

<http://pic.dhe.ibm.com/infocenter/tivihelp/v49r1/index.jsp?topic=%2Fcom.ibm.measap.doc%2Fwelcome.html>

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- IBM TRIRIGA
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- Maximo Asset Management
- Maximo Asset Management Essentials
- Maximo Asset Management Scheduler
- Maximo Calibration and Maximo for Life Sciences
- Maximo Change and Corrective Action Manager
- Maximo Data Center Infrastructure Management
- Maximo Enterprise Adapter
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- Maximo Space Management for Facilities
- Maximo Spatial Asset Management
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- Collaborating in the information center

[Maximo Enterprise Adapter](#) >

IBM Maximo Enterprise Adapter for SAP Applications, Version 7.5

Contains information describing the features of Maximo® Enterprise Adapter for SAP Applications.

Learning | **Tasks** | **Community and support**

The information center contains topics that help you with basic, as well as advanced, tasks.

Installing

- [Quick Start Guide](#)
- [Installation Guide](#)

Upgrading

- [Maximo Upgrade Resources](#)

Performing common tasks

- [Administering Maximo Enterprise Adapter for SAP Applications](#)

Resolving problems

- [Troubleshooting and support](#)
- [IBM Support Assistant](#)

Information center tips

Print multiple topics: Print multiple topics by navigating through the table of contents to the top-most topic you want to print, then click the Print Topics icon. Options include printing a single topic or that topic and all subtopics.

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Maximo 7.5 Upgrade Resources

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Maximo Upgrade Resources



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More Less

5.2 6.2.6 6.2.7 Maximo calibration 6.5... ci407ml maximo maximo 7 websph... maximo everypla... maximo webspher... upgrade

Technote (troubleshooting)

Problem(Abstract)

This technote provides information on the various Maximo upgrade programs.

Resolving the problem

Latest News

On March 7, 2012, IBM Software released the Maximo Asset Management and Maximo Asset Management Essentials 7.5.0.2 fix pack.

On December 8, 2011, IBM Software released the Base Services 7.1.1.10 fix pack for Maximo Asset Management, Maximo Asset Management Essentials, and Tivoli Asset Management for IT.

Upgrade Considerations

Upgrading to Maximo Asset Management 7.5

On April 29th, 2011, IBM released [Maximo Asset Management 7.5](#). IBM Support strongly recommends that you thoroughly review the Maximo 7.1 to 7.5 Upgrade Guide below for complete upgrade details and instructions prior to starting any 7.5 upgrade effort. This upgrade information is provided for upgrading from Maximo Asset Management 7.1 deployments that include Maximo Base Services fix pack 7.1.1.7, fix pack 7.1.1.8, fix pack [7.1.1.9](#) and fix pack [7.1.1.10](#). On March 7th, 2012, IBM released fix pack [7.5.0.2](#). Fix Pack 7.1.1.10 systems can upgrade to 7.5.0.2.

Reporting options change in v7.5. Existing users of Actuate Reporting and Business Objects Crystal Reports need to evaluate their reporting options in the 7.5 release. v7.5 does not include the reporting integration code specific to Actuate and Crystal Reports and existing 5/6/7.1 report delivery and configuration options must be reviewed. For additional information, please click [here](#).

The following 7.1 products do not currently have a 7.5 version equivalent. At this time, you cannot upgrade to 7.5 if you have any of the following 7.1 products:

- Tivoli Provisioning Manager
- Tivoli Service Automation Manager

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Document information

[IBM Maximo Asset Management](#)

Upgrade Programs

Software version:
4.1.1, 5.1, 5.2, 6.0, 6.1, 6.2, 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.5, 6.2.6, 6.2.7, 6.2.8, 7.1, 7.1.1, 7.5

Operating system(s):
Platform Independent

Reference #:
1266217

Modified date:
2012-03-15

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Availability Notices

- Maintenance Window
- Unscheduled Maintenance Window

Maximo 7.5 Upgrade Resources – (cont.)


Ordering Previous Maximo Upgrade Utilities

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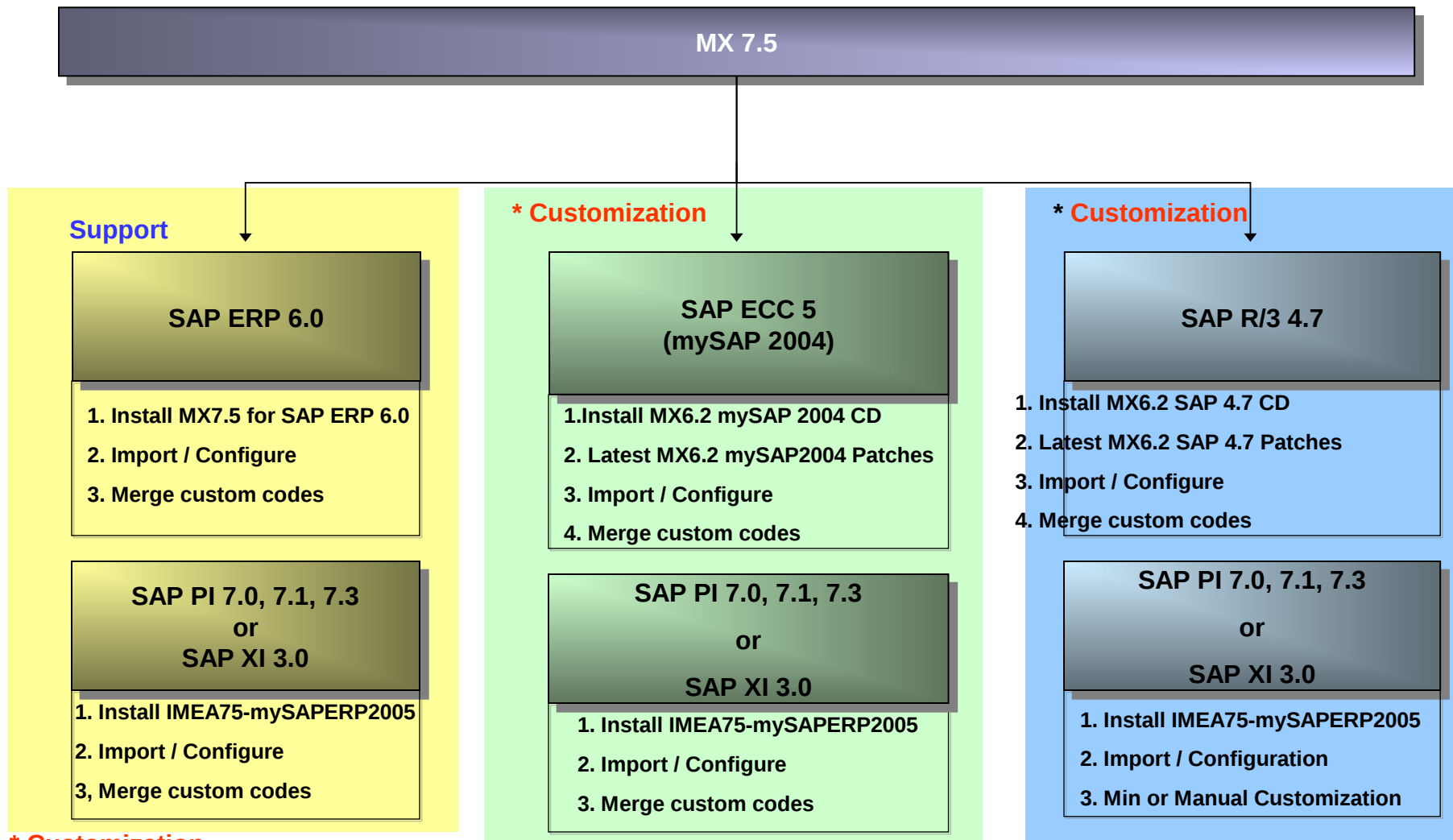
Maximo 7.5 Upgrade Documentation

| | |
|---|---|
| What's New in version 7.5 | http://bit.ly/iH1Pwu |
| Maximo 7.1 to 7.5 Upgrade Guide |  mam_7.5_upgrade_guide.pdf |
| Database differences between Maximo 7.1.1.8 and 7.5 |  DBdiff75Comparedto7118.xls |
| Database differences between Maximo 7.1.1.7 and 7.5 |  DBdiff75Comparedto7117.xls |

Maximo 7.1 Upgrade Documentation

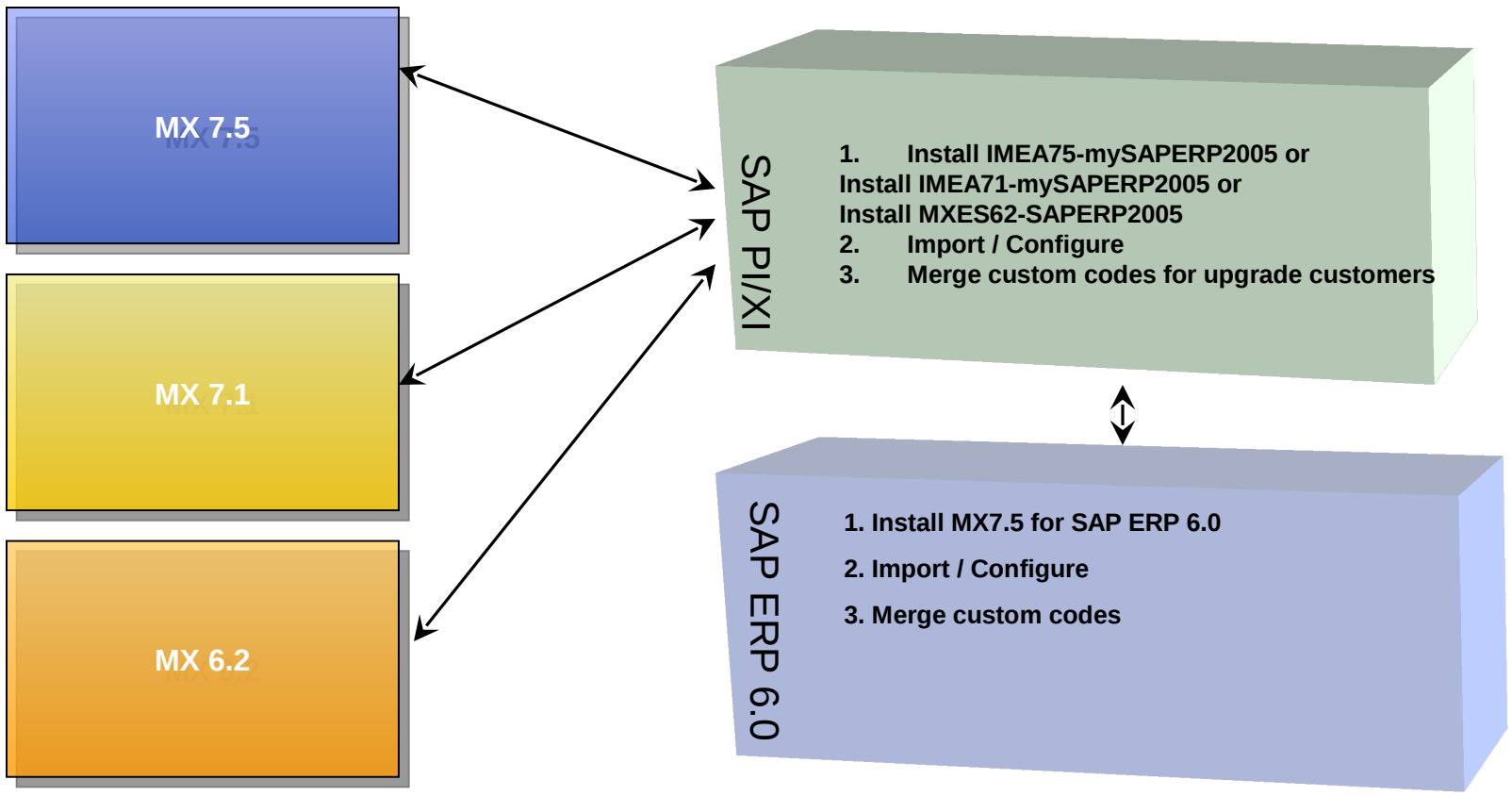
| | |
|---------------------------------|--|
| What's New in version 7.1 Guide |  what's new in release 71.pdf |
| Maximo 6 to 7.1 Upgrade Guide |  6 to 7 upgrade e16.pdf |

MX7.5 with Various SAP ERP & PI Versions



* Customization

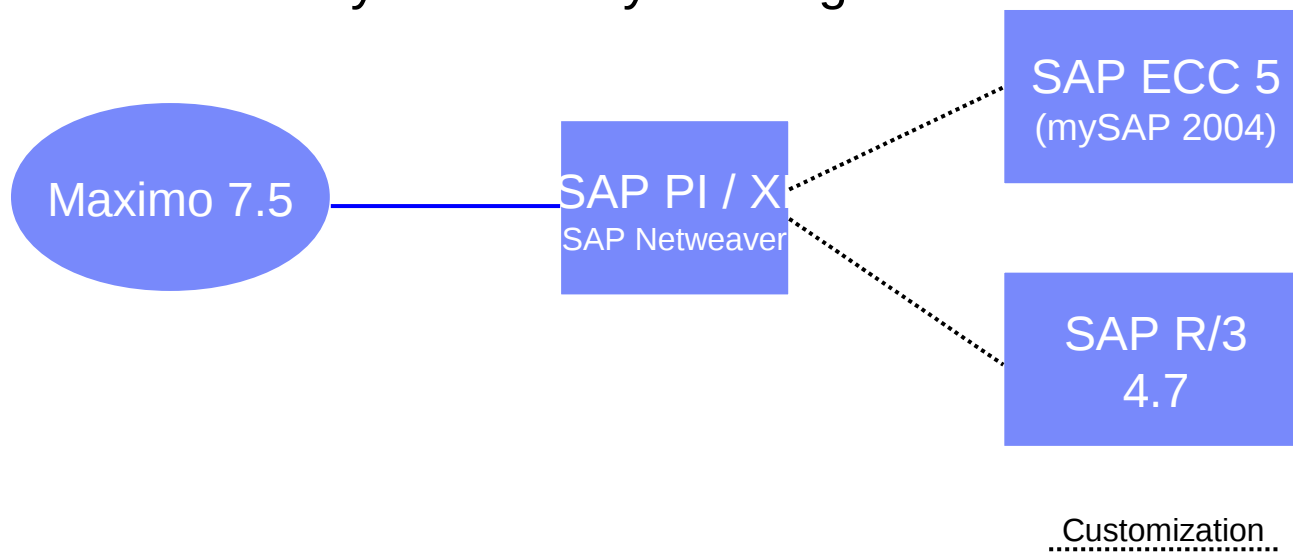
Multiple versions of Maximo with one SAP ERP & PI



Note: One SAP ERP could be connected to one Integration Server (Xi/PI) only.

MX7.5 with a SAP version other than ERP 6.0

- What does IBM support when customers have implemented Maximo 7.5 with a SAP version other than ERP 6.0?
 - Any issues that can be reproduced in standard SAP Adapter version (SAP ERP 6.0) will have a hot fix provided to clients
 - If issues are not reproduced in standard SAP Adapter version then these issues are related to version specific customization. These issues may be fixed by working with IBM GBS.



Reference Materials

- **Information center**
 - <http://publib.boulder.ibm.com/infocenter/tivihelp/v49r1/topic/com.ibm.measap.doc/welcome.html>

- **Download doc**
 - www.ibm.com/support/docview.wss?rs=3214&uid=swg24030003

- **Support**
 - www.ibm.com/support/entry/portal/Overview/Software/Tivoli/Maximo_Enterprise_Adapter_for_SAP

- **Release Notes**
 - <http://publib.boulder.ibm.com/infocenter/tivihelp/v49r1/topic/com.ibm.measap.doc/common/relnotes.html>

- **Installation prerequisite**
 - <http://www.ibm.com/developerworks/wikis/display/maximo/Overview+and+Planning>

- **System Requirements**
 - <http://www.ibm.com/developerworks/wikis/display/maximo/System+Requirements+for+Maximo+Products>

Be Connected

- **Service Management Connect (SMC)**
 - <https://www.ibm.com/developerworks/servicemanagement/>
- **Asset Management SMC**
 - <https://www.ibm.com/developerworks/servicemanagement/am/index.html>
- **Assets Management Support Community**
 - <http://www-304.ibm.com/support/docview.wss?uid=swg21418666>
- **Enterprise Adapter for SAP Applications**
 - <https://w3-connections.ibm.com/communities/service/html/communityview?communityUuid=93d540ab-fccf-4d14-ba8f-65c9b65acece>

Contact Information

▪ **Support Contact**

- Karen Lang - karen.lang@us.ibm.com
- Manager: Michael Crispin - mcrispin@us.ibm.com

• **Product Design and Architect:**

- Mimi Ahn - mimia@us.ibm.com
- Manager: Stan Smith - stans@us.ibm.com

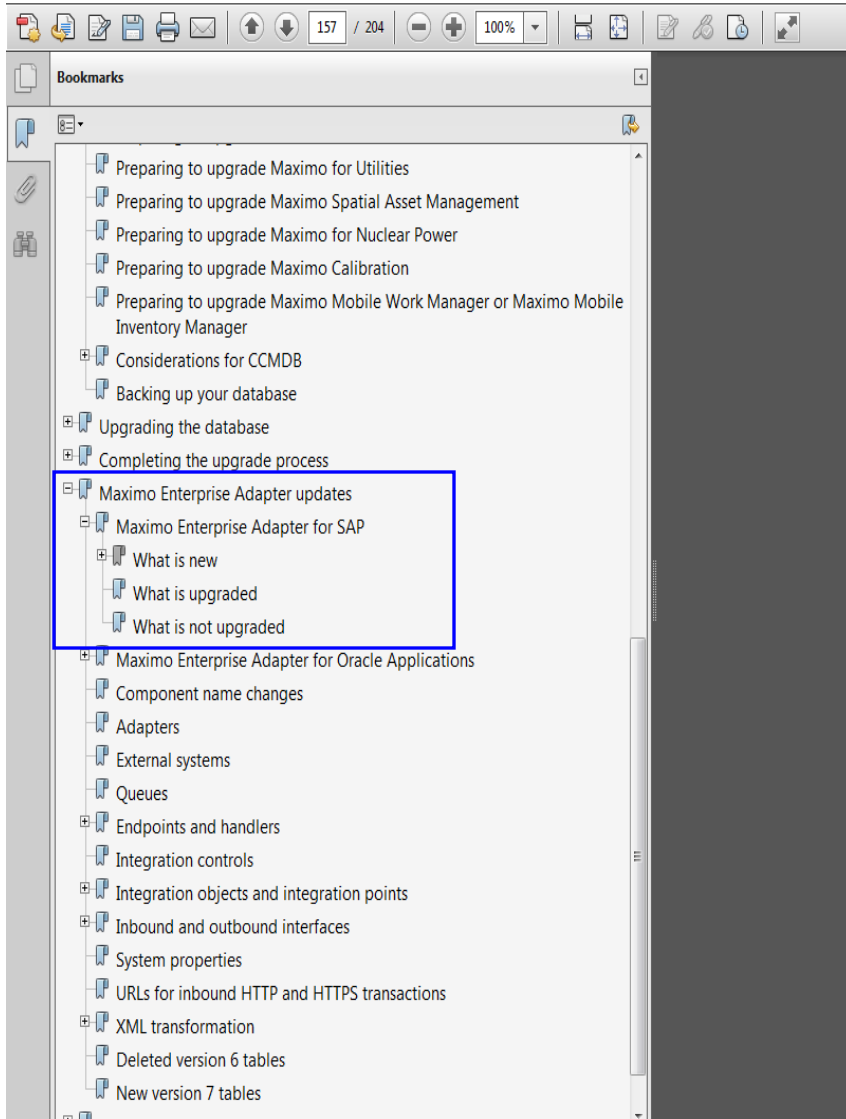
• **Development Manager:**

- Fernando Cabrera Giglio - fgiglio@br.ibm.com

QUESTIONS?

Backup

Pre and Post Upgrade of SAP Adapter from 6.2 to 7.1



Maximo Enterprise Adapter updates



If you use the Maximo Enterprise Adapter (MEA), the pre-upgrade and post-upgrade tasks that you must do depend on the data format that you use in the IBM Maximo Enterprise Adapter XML files or interface tables, and the extent of the customization. Not all update tasks apply to all situations.

Maximo Enterprise Adapter for SAP

The Maximo Asset Management upgrade program upgrades the Maximo® Enterprise Adapter for SAP ERP 6.0 (SAP ERP adapter) and your Maximo database at the same time. Run the upgrade program only once. After completing the upgrade, your SAP ERP adapter will be upgraded to release 7.1.

What is new

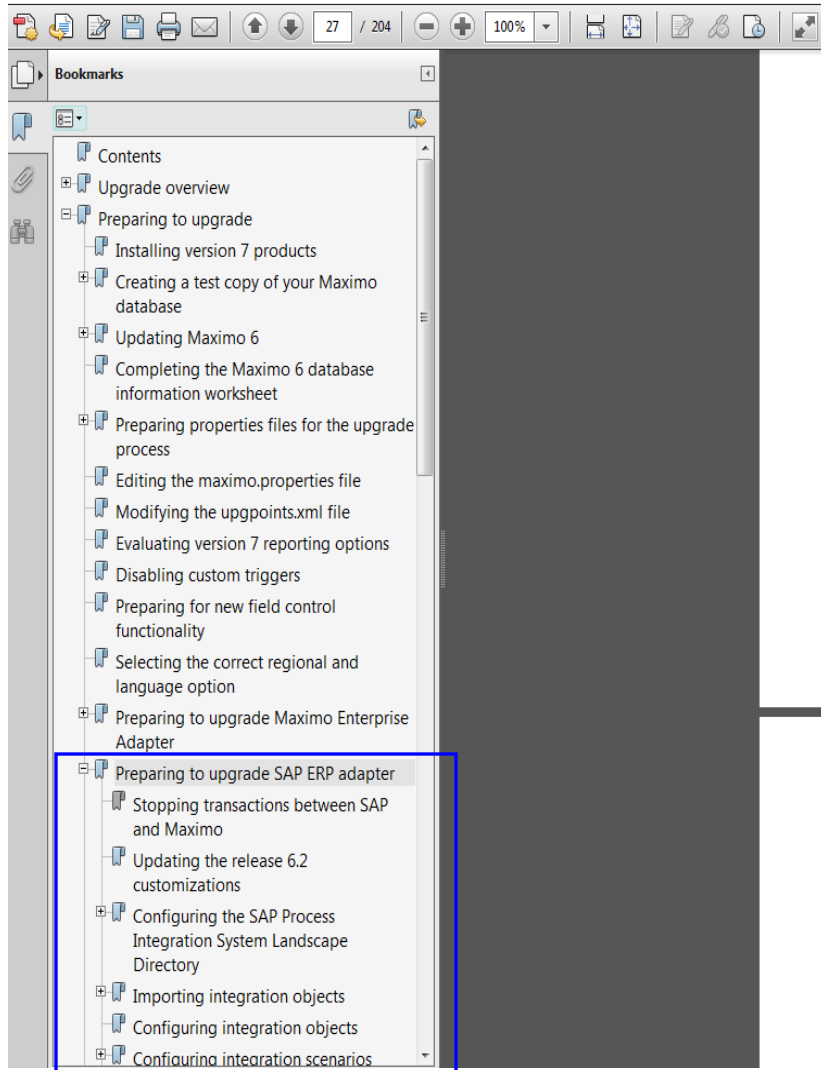
Before you upgrade the SAP ERP adapter, ensure that you are aware of the features in release 7.1 and how the features might affect your implementation and customizations.

Inbound invoices integration

In release 7.1 of the SAP ERP adapter, one invoice enterprise service manages the transfer of SAP MM invoices, FI invoices, and invoice variances to Maximo. If you have any customizations for FI invoices or invoice variances, you must plan to move them to the MM invoice enterprise service.

Purchase requisition integration

Preparing upgrade for MEA SAP Adapter from 6.2 to 7.1



Preparing to upgrade SAP ERP adapter

The following list provides an overview of the pre-upgrade tasks for the SAP ERP adapter:

- ▼ Stopping transactions between SAP and Maximo
- ▼ Updating the release 6.2 customizations
- ▼ Configuring the SAP Process Integration System Landscape Directory
- ▼ Importing integration objects
- ▼ Configuring integration objects
- ▼ Configuring integration scenarios
- ▼ Adjusting interface determination objects manually
- ▼ Processing SAP XML files in SAP Exchange Infrastructure to Maximo 6.2
- ▼ Resolving SAP integration transactions in Maximo 6.2

Preparing to upgrade

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Preparing to upgrade SAP ERP adapter

- ▼ Backing up Maximo 6.2 database
- ▼ Applying the latest Maximo 6.2 patches
- ▼ Applying the latest SAP ERP 6.2 adapter patches
- ▼ Backing up the Maximo Database

Ensure that the configurations you specify in this section are compatible with those you specified in "Preparing to upgrade Maximo Enterprise Adapter," page 19.

Completing upgrade for MEA SAP Adapter from 6.2 to 7.1

| Completing the upgrade process | |
|--------------------------------|--|
| | Verifying the install.properties values |
| | Updating the Maximo database |
| | Reviewing your upgraded screens |
| | Performing database administration tasks |
| | Reviewing custom relationships |
| | Reviewing table domains and crossover domains |
| | Validating upgraded restrictions |
| | Re-enabling audit functions |
| | Reviewing version 7 planned attribute changes in work-order-based applications |
| | Reviewing IBM Global Services applications |
| | Updating statistics |
| | Associating existing document types (folders) with new version 7 applications |
| | Adding new applications to security groups |
| | Completing the Maximo Enterprise Adapter upgrade process |
| | Completing the SAP ERP adapter upgrade process |
| | Adding a service identifier class to the web.xml file in Maximo |
| | Configuring the SAP ERP adapter in Maximo |
| | Configuring the communication channel for the new service in SAP Process Integration |

Completing the SAP ERP adapter upgrade process

Completing the SAP ERP adapter upgrade process includes the following tasks:

- ▼ Configuring the SAP ERP adapter in Maximo
- ▼ Adding a service identifier class to the web.xml file in Maximo
- ▼ Configuring the communication channel for the new service in SAP Process Integration

Ensure that the configurations you specify in this section are compatible with those you specified in “Completing the Maximo Enterprise Adapter upgrade process,” page 71.

Adding a service identifier class to the web.xml file in Maximo

After you install the SAP ERP adapter, you must modify the web.xml file and add a service identifier class.

Completing the upgrade process

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