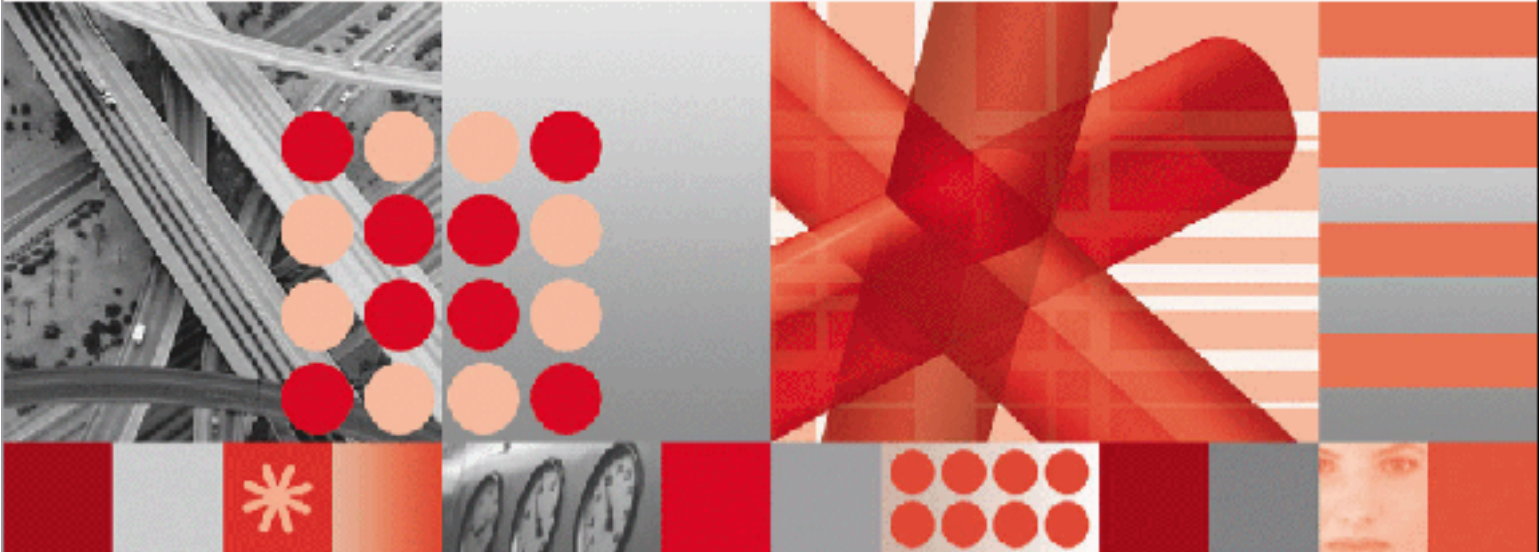




Release 5.x



Revision 20 Release Notes

Note

Before using this information and the product it supports, read the information in "Notices" on page Notices-1.

This edition applies to version 5 of IBM Maximo Enterprise Adapter for SAP R/3 4.6c and to all subsequent releases and modifications until otherwise indicated in new editions.

Third-Party Technology: Certain Maximo products contain technology provided under license from third parties, as noted in the following table:

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All Products	Portions © 1996-2003 Visual Mining, Inc. Visual Mining™ NetCharts Server provided by Visual Mining, Inc.
IBM Maximo	Portions © 1995-2004 Actuate Corporation. Portions © 2005 BEA Systems, Inc. BEA WebLogic Server® provided by BEA Systems, Inc. Portions © 1996-2005, i-net software GmbH. J-Integra for COM® v2.4. © 2004 Intrinsyc Software International, Inc. Sentry Spelling-Checker Engine © 2000 Wintertree Software, Inc.
Maximo Discovery	MSDE Copyright © Microsoft® Corporation. Portions © 1998-2005 Centennial Software Limited.
IBM Maximo Asset Navigator	Portions © 1993-2002 Snowbound™ Software Corporation. RasterMaster™ Raster imaging technology provided by Snowbound Software Corporation.
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About This Publication

This section describes the contents of the IBM® Maximo® Enterprise Adapter for SAP® R/3® 4.6c (MEA for SAP) Release 5.x, Revision 20. It also provides information about other IBM Corporation resources available to you, such as additional documentation and support.

Intended Audience

- ▼ Implementation team members
- ▼ System administrators

Related Information

For more information about the MEA for SAP, refer to the following documentation:

Document	Description
<i>IBM Maximo Enterprise Adapter for SAP R/3 4.6c Installation Guide</i>	Describes how to install and configure the IBM MEA for SAP R/3 4.6c.
<i>IBM Maximo Enterprise Adapter for SAP R/3 4.6c System Administrator's Guide</i>	Describes how to install and configure the IBM MEA for SAP R/3 4.6c.
<i>IBM Maximo Enterprise Adapter System Administrator's Guide</i>	Describes how to configure and use the IBM MEA.
<i>IBM Maximo System Administrator's Guide</i>	Describes how to configure and use IBM Maximo.

IBM Support

IBM Software Support provides assistance with product defects.

Before contacting IBM Software Support, your company must have an active IBM software maintenance contract, and you must be authorized to submit problems to IBM. For information about the types of maintenance contracts available, see "Enhanced Support," in the *Software Support Handbook* at techsupport.services.ibm.com/guides/services.html.

Complete the following steps to contact IBM Software Support with a problem:

- 1 Define the problem, gather background information, and determine the severity of the problem. For help, see the "Contacting IBM," in the *Software Support Handbook* at techsupport.services.ibm.com/guides/beforecontacting.html.
- 2 Gather diagnostic information.
- 3 Submit your problem to IBM Software Support in one of the following ways:
 - a Online: Click **Submit and track problems** on the IBM Software Support site at www.ibm.com/software/support/probsub.html.
 - b By telephone: For the telephone number to call in your country, go to the Contacts page of the IBM Software Support Handbook at techsupport.services.ibm.com/guides/contacts.html.

If you submit a problem that is a software defect or for missing or inaccurate documentation, IBM Software Support creates an Authorized Program Analysis Report (APAR). The APAR describes the problem in detail.

Whenever possible, IBM Software Support provides a workaround that you can implement until the APAR is resolved and a fix is delivered. IBM publishes resolved APARs on the Software Support Web site daily, so that other users who experience the same problem can benefit from the same resolution.

Release Notes

This document describes the contents of the Maximo Enterprise Adapter for SAP R/3 4.6c Release 5.x (MEA for SAP) Revision 19. It details the steps you must take to install the MEA for SAP R/3 Release 5.x Revision 20. It also lists corrected issues for this update. Revision 20 includes all previous revisions.

Install this revision only if you have installed the MEA for SAP R/3 Release 5.x. To install the MEA for SAP R/3 Release 5.x revision, you must have system administrator rights and authorities.

For more information about the steps for installing this revision, refer to “Revision Installation Procedures,” on page 2. Read this document completely before you install this revision.

CAUTION Install this revision in a test environment before you install it in a production environment.

Have the following documents available for reference:

- ▼ *IBM MEA for SAP R/3 4.6c Installation Guide*
- ▼ *IBM MEA for SAP R/3 4.6c System Administrator’s Guide*
- ▼ *IBM MEA System Administrator’s Guide*
- ▼ *IBM Maximo System Administrator’s Guide*

Revision Installation Procedures

This section describes the steps that you must follow to install Revision 20 of the MEA for SAP R/3 Release 5.x. Some steps refer you to subsequent sections for more detailed information.

Step 1: Process all transactions in queues

Process all outstanding transactions before installing this product revision.

For instructions on how to process transactions in queues, see “Processing Transactions in Queues,” on page 5.

Step 2: Determine your current revision level

Determine the current revision level of your MEA for SAP R/3 4.6c to know if you must apply this revision.

For details, refer to “Determining Your Revision Level,” on page 6.

Step 3: Shut down the Maximo application server

Before you install the revision, shut down the Maximo application server.

Step 4: Back up your existing program files

Before you install the revision files into the Application Server directory (default path c:\maximo), back up the existing Maximo directory structure and files.

Step 5: Shut down the webMethods Integration Servers

Before you install the revision, shut down the webMethods™ integration servers.

Step 6: Back up your existing webMethods Integration Server directories

Before you install the revision files into the webMethods directory, back up the existing directory structure and files.

WebMethods version 4.6 has the following default path:

webMethods\IntegrationServer4

WebMethods version 4.0.2 has the following default path:

webMethods\B2BServer4

Step 7: Back up your Maximo database

To prevent any accidental loss or corruption of your data, back up your Maximo database.

Step 8: Download Maximo patch

Download the most recent Maximo patch from Support Online (support.mro.com). Follow the instructions in the corresponding revision release notes, which also are available from Support Online.

Step 9: Copy the MX5xSAP46REV20.zip file

Copy the MX5xSAP46REV20.zip file, which contains the most recent MEA for SAP R/3 program fix, to your Maximo Application Server directory (default path c:\maximo).

NOTE This revision file applies to both Maximo 5.1 and 5.2 customers.

Step 10: Extract the files

Extract the files in the MX5xSAP46REV20.zip file to your Maximo Application Server directory. Use folder names when you extract the files.

If you are a UNIX[®] customer, unzip the MX5xSAP46REV20.zip file to your Maximo Application Server directory.

Step 11: Restart the webMethods Integration Servers

Restart the webMethods integration servers in order to apply the embedded zip files.

Step 12: Apply the embedded .zip files

For instructions about how to apply the embedded .zip files in this revision, see “Applying the Embedded .zip Files,” on page 8.

Step 13: Perform manual updates

For instructions about how to apply the manual updates, see “Manual Updates,” on page 13.

Step 14: Build and redeploy Maximo .ear files

If your version of Maximo requires .ear files, build and redeploy your .ear files after you make the changes for this revision.

Step 15: Restart the Maximo application server

You now can restart the Maximo application server.

Processing Transactions in Queues

Process all transactions in all outbound and inbound queues before you install this product revision.

CAUTION You cannot process any outstanding transactions after you apply the product revision.

Maximo Queues

To determine if any outstanding transactions exist in the Maximo queues, connect to the Maximo schema owner and run the following SQL statements:

```
select count(*) from mout_interdata;  
select count(*) from max_interdata;  
select count(*) from max_interdata_bat;
```

The tables contained in the preceding select statements should not contain any rows. That is, each count should be zero. If the counts are not zero, fix any transactions in error, and then let all records process.

webMethods Queues

To determine if any outstanding transactions exist in the SAP webMethods Integration Server, view and clear transactions for all destinations in the mroRepository.

Determining Your Revision Level

Determine the current revision level of your MEA for SAP R/3 4.6c to determine if you must apply this revision and perform any related manual updates.

To determine your revision level, complete the following steps:

- 1 Open a command window or shell and change the directory to the Maximo root directory (default c:\maximo).
- 2 Enter one of the following commands, depending on your operating system:

Operating System	Command
Microsoft® Windows®	version.bat
UNIX	./unix_shell_scripts/version.sh

Maximo displays a message like the following message:

```
Maximo Enterprise Adapter for SAP Release 5.x
Build SAPnnn xxx
```

where

xxx is a build number that you use to determine the revision level.

NOTE If you are a Maximo 5.2 user and you have not yet installed any revisions, Maximo displays the following message instead:

```
Maximo Enterprise Adapter for SAP Release 5.2 Build SAP008
```

The preceding message indicates that you are at revision level 10.

If you receive this message, skip ahead to “Applying the Embedded .zip Files,” on page 8. Follow the instructions in this document to install Revisions 11 and later.

- 3 Find the build number in the following table and note the corresponding revision level number. Apply all releases with a later revision number in sequential order.

Build number from version command	Revision level
060	20
058	19
055	18
054	17
049	16
045	15

Build number from version command	Revision level
041	14
037	13
035	12
027	11
026	10
024	9
020	8
015	7
013	6
012	5
010	4
009	3
006	2
004	1

Applying the Embedded .zip Files

This section describes how to apply the .zip files that the revision contains.

Apply, in order, all .zip files with revision numbers later than your current revision. If, for example, you are at Revision level 11, and you want to reach Revision level 15, apply REV12, REV13, REV14, and REV15 of the .zip file.

Before you apply the revision .zip file, determine if you plan to overwrite any customizations you made to the existing files. To do so, expand the revision .zip file to display the list of files in the .zip. If you previously customized these files, backup those files, and then reapply the customizations.

The MX5xSAP46REV20.zip file contains the following .zip files:

- ▼ sapintegration-REVxx.zip
- ▼ mroRepository-REVxx.zip
- ▼ mroMxSapR3LINK-REVxx.zip
- ▼ sapUpdate-REVxx.zip
- ▼ SAP.zip
- ▼ SAP_14176.zip

sapintegration-REVxx.zip

If you previously customized any files in the sapintegration package, back up those files before you apply the sapintegration-REVxx.zip file. If you apply the .zip file, you overwrite any customizations.

Note for Revision 11

Revision 11 installs a new version of the **serviceName.config** file. Back up that file and then reapply your customizations according to the instructions in Manual Update for Revision 11, on page 14. The serviceName.config file is in the following directory:

```
\webmethods\<<version 4.0.2 or 4.6 server>\packages  
\sapintegration\config
```

Note for Revision 16

Revision 16 installs a new version of the **serviceName.config** file. Back up that file, and then reapply your customizations according to the instructions in Manual Update for Revision 16 section on page 16. The serviceName.config file is located in the following directory:

```
\webmethods\<<version 4.0.2 or 4.6 server>\packages  
\sapintegration\config
```

Steps for applying all revisions

To apply the sapintegration-REVxx.zip file, complete the following steps:

- 1 Copy the sapintegration-REVxx.zip file from the Maximo sapintegration directory (default path c:\maximo\wm\sapintegration) to the Maximo Integration Server and paste it in the following directory:

`\webmethods\<<version 4.0.2 or 4.6 server>\replicate \inbound`
- 2 To disable the sapintegration package, select No in the Enabled column on the Integration Server Packages>Management page.
- 3 Shut down and restart the Integration Server.
- 4 On the Integration Server Packages>Management page, select **Install Inbound Releases**.
- 5 Select sapintegration-REVxx from the **Inbound Releases** drop-down list.
- 6 Click **Install Release**.
- 7 After you install the package, reload the sapintegration-REVxx package.
- 8 Select the sapintegration package name from the list of packages. Maximo displays the revision history, including build and revision numbers for the program fix that you applied.
- 9 To apply additional revisions, repeat steps 1 through 8 for each revision that you want to apply.

mroRepository-REVxx.zip

If you have customized any files in the mroRepository package, back up those files before you apply the mroRepository-REVxx.zip file. If you apply the .zip file, you might overwrite any customizations.

To apply the mroRepository-REVxx.zip file, complete the following steps:

- 1 Copy the mroRepository-REVxx.zip file from the mroRepository directory (default path c:\maximo\wm\mroRepository) to the SAP R/3 Integration Server and paste it in the following directory:

`\webmethods\<<version 4.0.2 or 4.6 server>\replicate \inbound`
- 2 To disable the mroRepository package, select No in the Enabled column on the Integration Server Packages>Management page.
- 3 Shut down and restart the Integration Server.
- 4 On the Integration Server Packages>Management page, select **Install Inbound Releases**.
- 5 Select **mroRepository-REVxx** from the **Inbound Releases** drop-down list.
- 6 Click **Install Release**.

Applying the Embedded .zip Files

- 7 After you install the package, reload the mroRepository-REVxx package.
- 8 Select the mroRepository package name from the list of packages. Maximo displays the revision history that includes build and revision numbers for the program fix that you applied.
- 9 To apply additional revisions, repeat steps 1 through 8 for each revision that you want to apply.

mroMxSapR3LINK-REVxx.zip

The mroMxSapR3LINK-REVxx.zip file is a package on the SAP webMethods Integration Server.

Backing up configuration files in SAP B2B

Back up *.config files before you apply the mroMxSapR3LINK-REVxx.zip file. If you apply the .zip file, you overwrite any customizations.

Note for Revision levels 12 and earlier

Back up the **Receive.config** file in the following default directory:

```
\webmethods\<<version 4.0.2 or 4.6 server>\packages  
\mroMxSapR3LINK\config
```

Reapply your customizations according to the steps described in “Applying the mroMxSapR3LINK-REVxx.zip file,” on page 11. Follow any instructions in “Manual Updates,” on page 13 that apply to your revision level.

Note for Revision level 13

Revision 13 replaces the **Receive.config** file with two new configuration files:

- ▼ BatchReceive.config
- ▼ IDocReceive.config

Back up of the Receive.config file in the following default directory:

```
\webmethods\<<version 4.0.2 or 4.6 server>\packages  
\mroMxSapR3LINK\config
```

Use the steps described in “Applying the mroMxSapR3LINK-REVxx.zip file,” on page 11 to apply the mroMxSapR3LINK-REVxx.zip file to your SAP Integration Server. When you reach step 8 of these procedures, use the parameters from your backup copy of the Receive.config file to modify the BatchReceive.config and IDocReceive.config files.

For more information, see “Revision 13,” on page 14.

Note for Revision levels 14 and higher

Back up the BatchReceive.config and IDocReceive.config files in the following default directories:

```
\webmethods\<<version 4.0.2 or 4.6 server>\packages  
\mroMxSapR3LINK\config\BatchReceive.config
```

```
\webmethods\<<version 4.0.2 or 4.6 server>\packages  
\mroMxSapR3LINK\config\IDocReceive.config
```


Note for Revision level 15

The Revision 14 mroMxSapR3LINK-REV14.zip file contains an incorrect target package version number in the manifest.rel file. If you applied Revision 14, you might need to correct this version number manually before you apply the Revision 15 mroMxSapR3LINK-REV15.zip file. For more information, refer to “Revision 15,” on page 16.

Applying the mroMxSapR3LINK-REVxx.zip file

To apply the mroMxSapR3LINK-REVxx.zip file, use the SAP webMethods Integration Server to complete the following steps:

- 1 Copy the mroMxSapR3LINK-REVxx.zip file from the Maximo mroMxSapR3LINK directory (default path c:\maximo\wm\mroMxSapR3LINK) to the SAP Integration Server and paste it in the following directory:

`\webmethods\<<version 4.0.2 or 4.6 server>\replicate \inbound`
- 2 To disable the mroMxSapR3LINK package, select No in the **Enabled** column on the Integration Server Packages>Management page.
- 3 Shut down and restart the Integration Server.
- 4 On the Integration Server Packages>Management page, select **Install Inbound Releases**.
- 5 Select mroMxSapR3LINK-REVxx from the **Inbound Releases** drop-down list.
- 6 Clear the **Activate upon installation** check box.
- 7 Click **Install Release**.
- 8 Use the parameters from the*.**config** files that you backed up to modify the Receive.config file (for Revision levels 12 and lower) or BatchReceive.config and IDocReceive.config files (for Revision level 13 only). For more information, refer to “Note for Revision levels 12 and earlier,” on page 10 and “Note for Revision level 13,” on page 10, or to “Manual Updates,” on page 13.
- 9 After you install the package successfully installed, reload the mroMxSapR3LINK package.
- 10 Select the package name from the packages list. The revision history displayed includes build and revision numbers for the program fix applied.
- 11 To enable the mroMxSapR3LINK package, select Yes in the Enabled column on the SAP Integration Server Packages>Management page,.
- 12 To apply additional revisions, repeat steps 1 through 11 for each revision that you want to apply.

If you have only one SAP inbound destination, skip to “sapUpdate-REVxx.zip,” on page 13.

Configuring multiple SAP destinations

To configure your integration to send transactions from Maximo to more than one SAP destination, complete the following steps:

- 1 Create and edit a duplicate copy of your `sapInbound.config` file for the additional SAP system destination that you must create, for example:

`sapInbound2.config`

For information about how to edit the `sapInbound.config` file, refer to the *IBM MEA for SAP R/3 Installation Guide*.

NOTE You need one copy of the `sapInbound.config` file for every SAP destination you create. For example, to create three incoming SAP destinations, you need three `sapInbound.config` files, each with a different name (for example, `sapInbound.config`, `sapInbound2.config`, and `sapInbound3.config`).

- 2 On the Integration Server Packages>Management page, click the `mroMxSapR3LINK` Home icon.

The `mroMXSapR3LINK` window opens.

- 3 Create a service. Fill in the fields as shown in the following table:

Field	Value
Name	your_service_name Example: <code>sapInbound2</code>
Function	<code>sapInbound</code>
Configuration File	your_config_file_name Example: <code>sapInbound2.config</code>

- 4 In the `mroRepository`, add a new destination.

For information about how to add new destinations, refer to the *IBM MEA for SAP R/3 Installation Guide*.

- 5 In the **Calling Service Name** field, enter the value of the new service name you just created, for example:

`sapInbound2`

- 6 In the `mroRepository`, modify the SAP system destination. On the Modify Destination window, change the value in the **Calling Interface Name** field to `mroMxSapR3LINKServices`.

sapUpdate-REVxx.zip

The sapUpdate-REVxx.zip file contains SAP R/3 ABAP™ (Advanced Basic Application Programming) program changes.

NOTE If the same ABAP program exists in an earlier product revision, apply only the latest version.

To apply the ABAP program updates, complete the following steps:

- 1 Extract the contents of the sapUpdateREVxx.zip file to the Application Server directory (default c:\maximo). It creates a directory under the Application Server directory: SAP-side.
- 2 Review the files in the SAP-side subdirectories to determine if they affect any customizations that you have implemented in your SAP R/3 system. If any files affect your customizations, change the file/ABAP program to reflect your customizations.
- 3 To apply additional revisions, repeat steps 1 and 2 for each revision that that you want to apply.
- 4 Upload the files to your SAP R/3 system.

Manual Updates

After you apply the embedded .zip files, apply the following updates manually. Note again the revision level number that corresponds to your current build number. Apply, in order, all revisions with revision numbers later than your current revision.

If you have any customized configuration files, back them up before performing any manual updates.

Revision 2

You must reconfigure your Maximo database to reflect the change in the EXTERNALREFID field.

To do so, complete the following steps:

- 1 Use the Database Configuration application in the MRO Software Control Center to change the column length of the EXTERNALREFID field in the INVOICE table from 10 to 30.
- 2 Reconfigure the database.
- 3 Restore backup tables if necessary.

For more information about how to reconfigure the database and restore backup tables in Maximo, refer to Chapter 2, "Database Configuration" in the *IBM Maximo System Administrator's Guide*.

Revision 4

If you are installing mroMxSapR3LINK-REV4.zip, use the following procedure.

- 1 After you install the mroMxSapR3LINK-REV4 package, overwrite the new Receive.config file with the copy that you backed up, which contains your customization information.
- 2 Add the following text to the [BATCH_C46_B2B] section of your original Receive.config file:

```
sap.client.loadbalancing=No  
sap.client.lb.messageserver=  
sap.client.lb.system=  
sap.client.lb.group=
```

- 3 Replace the **sap.client.database=** parameter with the following text:

```
sap.client.sysnumber=your_system_number
```

Revision 8

The ifacesap.txt file contains new messages. Recreate any customizations that you made to the file, located in the directory where you installed Maximo (default c:\maximo\resources\defaults\ifacesap.txt).

If you have customized the webMethods B2B mappings for POIN or MMINVOICEIN using the webMethods B2B Integrator, reapply your customizations.

Revision 11

The serviceName.config file has been updated. Compare the new file to your old file and duplicate any customizations. The file is in the following directory on the Maximo webMethods Integration Server:

```
\webmethods\IntegrationServer4\packages\sapintegration\config  
\serviceName.config
```

Revision 13

Configuration File Changes

Revision 13 replaces the original Receive.config file in your mroMxSapR3LINK.zip file with two new configuration files, BatchReceive.config and IDocReceive.config, at the following default path locations:

- ▼ \webmethods\IntegrationServer4\packages\mroMxSapR3LINK\config\BatchReceive.config
- ▼ \webmethods\IntegrationServer4\packages\mroMxSapR3LINK\config\IDocReceive.config

After you install the mroMxSapR3LINK package, modify the parameters for the IDocReceive and BatchReceive services to reflect your customization information:

- ▼ Use parameter values from the BATCH_C47_B2B section of the Receive.config file that you backed up to replace the values in the new BatchReceive.config file.

- ▼ Use parameter values from the IDOC_C47_B2B section of the Receive.config file that you backed up to replace the values in the new IDocReceive.config file.
- ▼ Revision 13 adds IDoc segment names to the IDocProc.config file. Use the following parameters to modify as needed the IDoc segment names section of your IDocProc.config file.

```
[IDocSegmentNames]
EDI=EDI_DC40
MARA=E1MARAM
MARC=E1MARC
MARD=E1MARDM
MBEW=E1MBEWM
PISTY=E1PISTY
CMCC=E1CMCCO
ICSL=E1ICSL0
ICHD=E1ICHDO
ICIT=E1ICITO
PLOGI=E1PLOGI
```

▼ SAP.zip

The SAP.zip file contains updates to the adapter that apply only to Maximo 5.1 customers with webMethods Integration Server version 4.6. If you run another version of the software, skip Steps 1 – 8 in this section.

Back up your SAP configuration file before you install the SAP.zip package. It saves your customization information. The file is located in the following directory:

```
\webmethods\<<version 4.6 server>\packages\SAP\config\SAP.cnf
```

To apply the SAP.zip file, complete the following steps:

- 1 Copy the SAP.zip file from the wm directory (default path c:\maximo\wm) to the SAP Integration Server and paste it in the following directory:

```
\webmethods\<<version 4.6 server>\replicate\inbound
```

- 2 To disable the SAP package, select No in the Enabled column on the Integration Server Packages>Management page.
- 3 Shut down and restart the Integration Server.
- 4 On the Integration Server Packages>Management page, select **Install Inbound Releases**.
- 5 Select **SAP.zip** from the **Inbound Releases** drop-down list.
- 6 Click **Install Release**.
- 7 To enable the SAP package, select Yes in the **Enabled** column on the SAP Integration Server Packages>Management page.

- 8 After you install the package, copy and paste the backup of your SAP.cnf file over the new SAP.cnf file to reflect your customization information.

▼ **SAP_14176.zip**

The SAP_14176.zip file contains additional files for the Java version of IDocReceive and BatchReceive services.

To apply the SAP_14176.zip file, complete the following steps:

- 1 Copy the SAP_14176.zip file from the wm directory (default path c:\maximo\wm) to the SAP Integration Server and paste it in the following directory:

`\webmethods\<<version 4.6 server>\replicate\inbound`

- 2 Extract the contents of the SAP_14176.zip file to the following directory:

`\webmethods\<<version 4.0.2 or 4.6 server> \packages\SAP`

Revision 15

- ▼ The Revision 14 mroMxSapR3LINK-REV14.zip file contained an incorrect target package version number in the manifest.rel file. If you applied Revision 14, you might need to correct this version number manually before you apply the Revision 15 mroMxSapR3LINK-REV15.zip file.

This error occurs because the manifest.rel file is incorrect. The "target_pkg_version" must match the existing "version." The first version of REV 14 had "target_pkg_version'=1.0.2. It should have been 1.0. REV 14 was rebuilt so that it is now 1.0.

To correct the manifest.rel file, complete the following steps:

- 1 Shut down the webMethods Integration Server.
- 2 Locate the manifest.rel file at the following default location:

`webmethods\<<version 4.6 server>\packages\mroMxSapR3LINK`

- 3 Edit the version number as shown in the following line in the manifest.rel file.

`<value name="target_pkg_version">1.0</value>`

- 4 Restart the webMethods Integration Server.
- 5 Move the edited mroMxSapR3LINK-REV14.zip file to the \replicate\inbound directory location.
- 6 Reload the mroMxSapR3LINK-REV14.zip package.

Revision 16

- ▼ The serviceName.config file now contains the MAPNAME.XCU and TRANSTYPE.XCU entries for the XCU transaction type.

Compare the new file to your old file and duplicate any customizations. The file is in the following directory on the Maximo webMethods Integration Server:

```
\webmethods\<<version 4.6 server>\packages\sapintegration\config
\serviceName.config
```

Revision 17

The transport file now includes a BAPI® (Business Application Programming Interface) add-on feature that lets you post the following processes:

- Create Goods Issue
- Create Goods Receipt
- Create MM Invoice
- Create/Update Purchase Order
- Create Purchase Requisition
- Create Reservation
- Create Workorder

NOTE To use this feature, you must have SAP support package level SAPKH46C30.

To implement this feature, complete the following tasks in SAP:

- 1 Modify ABAP and Structure names in sapinbound.config, for example:

```
[MRCV]
Abap=Z_BC_CREATE_GRECEIPTS_BAPI
Structure=ZBC_M2S_RECEIPTS
Table=RECEIPTS
```

- 2 Maintain ZBC_INBPROGRAMS to set up SAP to notify users by e-mail in case of errors.
- 3 SAP writes errors on BAPI calls to ZBC_BAPI* tables. Use ZBC_BAPIADMIN to reprocess records after errors.

The BAPI add-on feature in Revision 17 has the following requirements specific to the creation of work orders, purchase requisitions, and purchase orders:

▼ Create Work Order

BAPIs cannot send status information. The Create Workorder BAPI uses the default worktype setting for the initial status. If you send work orders from Maximo with status of APPR, set your work type to “release immediately,” transaction KOT2_OPA.

▼ Create Purchase Requisition

Implement OSS Note 388768 to enable external line numbers.

▼ Create Purchase Orders

Only support package SAPKH46C30 supports purchase order text. If the level of support package in your system is earlier than this package, change the function module manually to remove all items for text support.

Additional Product Updates

Revision 18

Revision 18 replaces the original IDocReceive.config and BatchReceive.config files in your mroMxSapR3LINK.zip file with new versions of the same files at the following default path locations:

- ▼ \webmethods\IntegrationServer4\packages\mroMxSapR3LINK\config\BatchReceive.config
- ▼ \webmethods\IntegrationServer4\packages\mroMxSapR3LINK\config\IDocReceive.config

After you install the new mroMxSapR3LINK package, add the parameters and values for the IDocReceive and BatchReceive services from the backup copies of the original IDocReceive.config and BatchReceive.config files.

Issue 91443 adds the following two new optional parameters to the IDocReceive.config and BatchReceive.config files:

- ▼ sap.server.unicode=*your_unicode_system*
 - Enter 0 if you do not want to use Unicode.
 - Enter 1 if you want to use Unicode.
- ▼ sap.server.encoding=*your_sap_encoding_parameter*
 - Enter your Unicode system. The default value is UTF-8.

Issue 91480 adds the following optional parameter to the BatchReceive.config file:

- ▼ sap.server.batch.table=*your_batch_table_name*
 - Enter the name of your batch table. This table contains the information about functions and structures that the MEA for SAP needs in order to send batches from SAP to Maximo. The default value is ZB2B_BATCHES.

Revision 20

If you previously customized the supply.config file, back up your customized version of the file before you apply Revision 20. To implement the fix for issue 07-12558, you can continue using your customized supply.config, but you must add the following two lines to the end of the file:

```
##GR COST from SAP  
GR.SETCOST=Y
```

Additional Product Updates

Check Support Online periodically for new product updates/program fixes. If any program fixes have a label with a revision number higher than the one you have applied, apply the latest version.

Resolved Issues

This section lists corrected issues reported for the Maximo Enterprise Adapter for SAP R/3 4.6c, Release 5.x.

Revision 20

Issue	07-12558
Description	The MEA for SAP now provides the option to map the SAP Goods Receipt (GR) cost, instead of the Maximo purchase order cost, to the Maximo receipt cost. If you have customized the supply.config file, perform the manual update in “Revision 20,” on page 18. This fix also requires you to apply the fix for MEA Issue 07-14418.
Replaced Files	psdi\iface\sap\extexit\MapRCVIn psdi\iface\sap\extexit\MaxRCVExt psdi\iface\sap\extexit\MaxAPEExt psdi\iface\sap\extexit\S2MConvExit psdi\iface\sap\extexit\config\supply.config
Issue	07-17500
Description	The MEA for SAP now correctly divides the purchase order price by the price unit.
Replaced File	SAP-Side\function groups\ZB2B_S2M\Z_B2B_BAPI_PO_GET_DETAIL

Revision 19

Issue	06-17557
Description	The MEA for SAP now correctly processes inventory balances that have French or Polish regional settings.
Replaced File	\psdi\iface\sap\extexit\MaxItmExt.class
Issue	06-18325
Description	The MEA for SAP now fills the INVENTORY.ISSUEUNIT and INVENTORY.ORDERUNIT fields in Maximo when you send inventory from SAP to Maximo.
Replaced File	psdi\SAP-Side\programs\ZB2BREPR100
Issue	06-19609
Description	The MEA for SAP now maps INVBALANCES.PHYSCNT and INVBALANCES.CURBAL correctly when you send inventory balances from SAP to Maximo.
Replaced File	psdi\iface\sap\extexit\MapInventoryIn.class
Issue	06-19610

Resolved Issues

Description	The standard ZB2BREPR100 report, which sends Material Master Data, Balances, and Prices from SAP to Maximo, now includes the plant filter for XII (basic view) transactions by checking the MARC/MARD table.
Replaced File	\\SAP-Side\programs\ZB2BREPR100
Issue	06-19611
Description	The standard ZB2BREPR100 report, which sends Material Master Data, Balances, and Prices from SAP to Maximo, now provides you with the option of not sending materials if they are flagged for deletion.
Replaced File	\\SAP-Side\programs\ZB2BREPR100

Revision 18

Issue	91443
Description	The MEA for SAP now supports SAP Unicode Systems.
Replaced Files	wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKReceive\ IDocReceiveService.class wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKReceive\ BatchReceiveService.class wm\mroMxSapR3LINK\config\IDocReceive.config wm\mroMxSapR3LINK\config\BatchReceive.config
Issue	91480
Description	You now can change the name of the ZB2B_BATCHES table by modifying the sap.server.batch.table property in BatchReceive.config.
Replaced Files	wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKReceive\ BatchReceiveService.class wm\mroMxSapR3LINK\config\BatchReceive.config

Revision 17

Issue	82593
Description	Added an SAP-side feature to enable BAPI posting of the following processes: <ul style="list-style-type: none">▼ Create Workorder▼ Create Reservation▼ Create Purchase Requisition▼ Create/Update Purchase Order▼ Create Goods Receipt▼ Create MM Invoice▼ Create Goods Issue

To implement these features, you need a manual configuration. See “Revision 17,” on page 17.

Replaced Files	SAP-Side\transport\BAPI-AddOn\K900167.C46 SAP-Side\transport\BAPI-AddOn\R900167.C46
Issue	83061
Description	IDocReceive and BatchReceive programs now reconnect after restart.
Replaced Files	wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKReceive\IDocReceiveService.class wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKReceive\BatchReceiveService.class wm\mroMxSapR3LINK\config\IDocReceive.config wm\mroMxSapR3LINK\config\BatchReceive.config
Issue	87266
Description	The MEA for SAP no longer sends an e-mail message as frequently as it updates log files.
Replaced File	wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKProcess\LogHandler.class
Issue	90303
Description	The MEA for SAP now processes UTRANSTYPE XLDI for Item long descriptions that you send from SAP to Maximo.
Replaced File	wm\sapintegration\ns\sapIntegration\SAPMaps\LONGDESCIN\flow.xml

Revision 16

Issue	69388
Description	The MEA for SAP now properly performs a table name call for table ZB2B_RUNTIMES.
Replaced File	psdi\SAP-side\function groups\ZB2B_S2M\Z_B2B_BAPI_INVOICE_GET_DETAIL
Issue	72005
Description	You now can delete all transactions simultaneously from the repository for testing purposes.
Replaced Files	wm\mroRepository\code\classes\mroRepository\configuration.class wm\mroRepository\ns\mroRepository\configuration\deleteAllTxn\node.ndf wm\mroRepository\pub\displayTransactionKeys.dsp
Issue	74977
Description	You now can update issue history in the Inventory application.
Replaced File	psdi\iface\sap\extexit\MapInventoryIn
Issue	76555
Description	You now can send company updates from SAP to Maximo with a UTRANSTYPE of XCU.

Resolved Issues

Replaced File wm\sapintegration\config\serviceName.config

Issue 76670

Description Added missing file in order to allow correct processing of MM invoices.

Replaced File psdi\SAP-side\function groups\ZB2B_S2M\
Z_B2B_BAPI_INVOICE_GET_DETAIL

Revision 15

Issue 65447

Description Maximo now can process a PO from SAP with a blocked line item.

Replaced File psdi.iface.sap.extexit.MaxPOExt

Issue 67374

Description The MEA for SAP now converts a negative cost in an incoming credit invoice to a positive cost, so that Maximo can correctly calculate the cost.

Replaced File psdi.iface.sap.extexit.MaxAPEExt

Issue 68486

Description The MEA for SAP now correctly processes transactions sent from SAP to Maximo that contain Korean double byte characters.

Replaced Files

- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Batch.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\CheckFileName.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\EROut.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\GoodsMovement.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Material.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Purchasing.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Start.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Utils.class

- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\BatchReceiveService.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\BatchServer.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\IDocReceiveService.class
- wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\IDocServer.class

wm\sapintegration\code\classes\SAPUtil.class

Issue 69788

Description The MEA for SAP now synchronizes store location with inventory balance when SAP ABAP program ZB2BREP100 updates the inventory.

Replaced File psdi.iface.sap.extexit.MaxItemExt

Revision 14

Issue **14704**

Description The mroMxSapR3LINK package now removes the slash character (/) in host parameters of configuration files.

Replaced File wm\mroMxSapR3LINK\code\classes\ini\CIniSection.class

Issue **14812**

Description The MEA for SAP now resets the variable that holds the MicSetUtil, so that SAPPREFIXES are correct for work orders that have reservations going to multiple sites.

Replaced Files

psdi\iface\sap\extexit\SAPData.class
 psdi\iface\sap\extexit\MapCoaIn.class
 psdi\iface\sap\extexit\MapComIn.class
 psdi\iface\sap\extexit\MapContractIn.class
 psdi\iface\sap\extexit\MapFIAPIn.class
 psdi\iface\sap\extexit\MapFIAPOut.class
 psdi\iface\sap\extexit\MapGLOut.class
 psdi\iface\sap\extexit\MapInventoryIn.class
 psdi\iface\sap\extexit\MapISUIn.class
 psdi\iface\sap\extexit\MapISUOut.class
 psdi\iface\sap\extexit\MapItemsIn.class
 psdi\iface\sap\extexit\MapLongDescIn.class
 psdi\iface\sap\extexit\MapLPYOut.class
 psdi\iface\sap\extexit\MapMMAPIIn.class
 psdi\iface\sap\extexit\MapMMAPOut.class
 psdi\iface\sap\extexit\MapPOIN.class
 psdi\iface\sap\extexit\MapPOOut.class
 psdi\iface\sap\extexit\MapPRIn.class
 psdi\iface\sap\extexit\MapPROut.class
 psdi\iface\sap\extexit\MapRCVIn.class
 psdi\iface\sap\extexit\MapRCVOut.class
 psdi\iface\sap\extexit\MapRSVOut.class
 psdi\iface\sap\extexit\MapVarAPIIn.class
 psdi\iface\sap\extexit\MapWoOut.class

Issue **041248**

Description The sapintegration package now properly maps contract data on purchase orders coming from SAP to Maximo.

Replaced File wm\sapintegration\ns\sapintegration\SAPMaps
 \CONTRACTIN\flow.xml

Issue **63731**

Description The SAP transport files now contain all necessary objects.

Replaced Files SAP-Side\transport\"dev_class and dictionary"\K900150.C46

SAP-Side\transport\"dev_class and dictionary"\R900150.C46
 SAP-Side\transport\"function groups and reports"\K900152.C46
 SAP-Side\transport\"function groups and reports"\R900152.C46

Revision 13

Issue 13008

Description Batch reports ZB2BREPR001, ZB2BREPR004, and ZB2BREPRC21 now select the company code rather than selecting the controlling area, so that batch reports do not send more data than Maximo expects.

Replaced Files
 SAP-Side\programs\ZB2BREPR001
 SAP-Side\programs\ZB2BREPR004
 SAP-Side\programs\ZB2BREPRC21

Issue 13491

Description Programs now check for delivery date when SAP processes purchase orders from Maximo without a delivery date.

Replaced File
 SAP-Side\function groups
 \ZB2B_M2S\Z_B2B_BDC_CHANGE_PURCH_ORD_R46

Issue 14176

Description Additional files for Java™ version of IDocReceive and BatchReceive.

Replaced Files
 wm\mroMxSapR3LINK\config\IdocReceive.config
 wm\mroMxSapR3LINK\config\BatchReceive.config
 wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\BatchReceiveService.class
 wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\BatchServer.class
 wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\IDocReceiveService.class
 wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKReceive\IDocServer.class
 wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Batch.class
 wm\mroMxSapR3LINK\ns\mroMxSapR3LINKReceive
 \BatchReceiveService\start\node.ndf
 wm\mroMxSapR3LINK\ns\mroMxSapR3LINKReceive
 \BatchReceiveService\stop\node.ndf
 wm\mroMxSapR3LINK\ns\mroMxSapR3LINKReceive
 \IDocReceiveService\start\node.ndf
 wm\mroMxSapR3LINK\ns\mroMxSapR3LINKReceive
 \IDocReceiveService\stop\node.ndf

Issue 14238

Description	mroMxSapR3LINK package modified to encode the XML data to UTF-8 when converting from string to document.
Replaced File	wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKProcess\Utils.class
Issue	14239
Description	mroMxSapR3LINKProcess modified to trim spaces from numeric fields of XSI transactions from SAP to Maximo.
Replaced Files	wm\mroMxSapR3LINK\code\classes \mroMxSapR3LINKProcess\EROut.class wm\mroMxSapR3LINK\code\classes \mroMxSapR3LINKProcess\EROutUtils.class
Issue	14303
Description	Program Z_B2B_BAPI_INVOICE_GET_DETAIL modified to use vendor data from lines on an SAP Invoice when there is not a vendor in the Invoice header.
Replaced File	SAP-Side\programs\Z_B2B_BAPI_INVOICE_GET_DETAIL
Issue	14304
Description	Files modified to group multiple FI invoice lines created in SAP that reference Maximo Workorders.
Replaced Files	wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKProcess\Batch.class wm\mroMxSapR3LINK\code\classes\mroMxSapR3LINKProcess\EROut.class wm\sapintegration\config\serviceName.config wm\sapintegration\ns\SAPMaps\FIINVOICEIN\flow.xml wm\sapintegration\ns\SAPRecords\FiInvoiceIn\node.ndf psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapVarAPIIn.class SAP-Side\programs\ZB2BSAPMACO SAP-Side\structures\sap_outbound.xls(sap4.7) SAP-Side\structures\ZB2B_S2M_COBATCH.txt(sap4.6)
Issue	14436
Description	mroMxSapR3LINK package modified to correct package loading problem during installation.
Replaced File	wm\mroMxSapR3LINK\code\classes \mroMxSapR3LINKProcess\Start.class
Issue	14437
Description	Updated SAP.zip package for the SAP Integration Server replaces IDoc receive and Batch receive C++ programs with JAVA programs.
Replaced File	wm\SAP.zip

Revision 12

Issue	12396
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Resolved Issues

Description	Receipts created at Invoice time now use the unitcost/linecost from the invoice line, not from the PO.
Replaced File	psdi\iface\sap\extexit\MaxAPEExt.class
Issue	12878
Description	Item average cost mapping corrected. Item Average Cost now mapped to VERPR and INVENTORY.AVGCOST.
Replaced File	psdi\iface\sap\extexit\MapInventoryIn.class
Issue	13064
Description	SAP stock Item transactions with CASE Order Unit value being sent to Maximo corrected to convert UOM to the correct language.
Replaced File	psdi\iface\sap\extexit\MapInventoryIn.class
Issues	13157, 13161
Description	Removed lookup on storeroom when updating data at the client level in SAP, because the client level of data in SAP does not have a storeroom value.
Replaced Files	psdi\iface\sap\extexit\MaxItmExt.class psdi\iface\sap\extexit\MaxItmExt.class psdi\iface\sap\extexit\MaxCOAExt.class
Issues	13186, 13199, 13202
Description	MEA SAP Exit program modified to check SAP GL controls for labor pay rate so that pay rates for Labor records in Maximo become updated after running batch report ZB2BREPR005.
Replaced File	psdi\iface\sap\extexit\MaxCOAExt.class
Issue	13430
Description	User exit class added for labor codes inbound.
Replaced File	psdi\iface\sap\userexit\MaxLcUser.class
Issue	13539
Description	Mapping for invoice unit out of Maximo corrected so that invoices created in Maximo can be inserted into SAP.
Replaced File	psdi\iface\sap\extexit\MapMMAPOut.class
Issue	034921
Description	Program MoutRVCExt.class modified to not check for PONUM if the transaction is a Maximo Receipt being sent to SAP.
Replaced File	psdi\iface\sap\extexit\MoutRCVExt.class
Issue	035477

Description	External exit modified to reset the status of a Maximo PO to WAPPR if all lines of the PO are deleted or blocked in SAP.
Replaced File	psdi\iface\sap\extexit\MaxPOExt.class

Revision 11

Issue	11618
Description	Enhancement to EXTInstallSAP: Database properties and user names/ passwords are now taken from the Maximo properties file. For example, you must run this file with the following parameters:

- ▼ Maximo properties file name
- ▼ Upgrade (Y or N)

Example: c:\maximo > EXTInstallSAP MXServer.properties y

Replaced Files	psdi\iface\doc\EXTInstallSAP.bat psdi\iface\install\EXTInstallSAP psdi\iface\install\InstallSAPControls psdi\iface\sap\extexit\M2SConvExit psdi\iface\sap\extexit\MaxAPEExt psdi\util\SAPVersion unix_shell_scripts\EXTInstallSAP.sh wm\sapintegration\config\serviceName.config
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Issue	12067
Description	Changed mapping from GLDEBITACCT to GLCREDITACCT for Labor actuals being sent from Maximo to SAP R/3.
Replaced File	psdi\iface\sap\extexit\MapLPYOut.class

Issue	12122
Description	Invoice cost being updated with incorrect total cost during invoice variance transactions.

Replaced Files	psdi\iface\doc\EXTInstallSAP.bat psdi\iface\install\EXTInstallSAP psdi\iface\install\InstallSAPControls psdi\iface\sap\extexit\M2SConvExit psdi\iface\sap\extexit\MaxAPEExt psdi\util\SAPVersion unix_shell_scripts\EXTInstallSAP.sh wm\sapintegration\config\serviceName.config
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Issue	12137
Description	Obtain the proper site for FI invoices coming from SAP R/3 to Maximo by using the work order site prefix.
Replaced File	psdi\iface\sap\extexit\MapFIAPIn.class

Issue	12165
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Resolved Issues

Description	Mapped LOADED COST on invoice line so that the work order becomes updated with incoming FI invoices.
Replaced Files	psdi\iface\doc\EXTInstallSAP.bat psdi\iface\install\EXTInstallSAP psdi\iface\install\InstallSAPControls psdi\iface\sap\extexit\M2SConvExit psdi\iface\sap\extexit\MaxAPExt psdi\util\SAPVersion unix_shell_scripts\EXTInstallSAP.sh wm\sapintegration\config\serviceName.config

Revision 10

Issues	9895/9896
Description	If the transaction is SERVRECTRANS or MATRECTRANS, GL transactions now map LOADED COST. Invoices to SAP R/3 now map taxes.
Replaced Files	psdi\iface\sap\extexit\MaxAPExt.class psdi\iface\sap\extexit\MaxCOAExt.class psdi\iface\sap\extexit\MaxComExt.class psdi\iface\sap\extexit\MaxISUExt.class psdi\iface\sap\extexit\MaxItmExt.class psdi\iface\sap\extexit\MaxPOExt.class psdi\iface\sap\extexit\MaxRCVExt.class psdi\iface\sap\extexit\MoutISUExt.class psdi\iface\sap\extexit\MoutPOExt.class psdi\iface\sap\extexit\MoutPRExt.class psdi\iface\sap\extexit\MoutRCVExt.class psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapFIAPOut.class psdi\iface\sap\extexit\MapGLOut.class psdi\iface\sap\extexit\psdi\iface\sap\extexit\MoutAPExt.class psdi\iface\sap\extexit\MoutGLExt.class psdi\iface\sap\extexit\S2MConvExit.class psdi\iface\sap\extexit\SAPData.class

Issue	10353
Description	Corrected typographical error.
Replaced File	wm\mroMxSapR3LINK\config\SAPInbound.config

Issue	10379
Description	setWhere statements are now formatted using SqlFormat.

Replaced Files

psdi\iface\sap\extexit\MaxAPEExt.class
 psdi\iface\sap\extexit\MaxCOAExt.class
 psdi\iface\sap\extexit\MaxComExt.class
 psdi\iface\sap\extexit\MaxISUEExt.class
 psdi\iface\sap\extexit\MaxItmExt.class
 psdi\iface\sap\extexit\MaxPOExt.class
 psdi\iface\sap\extexit\MaxRCVExt.class
 psdi\iface\sap\extexit\MoutISUEExt.class
 psdi\iface\sap\extexit\MoutPOExt.class
 psdi\iface\sap\extexit\MoutPREExt.class
 psdi\iface\sap\extexit\MoutRCVExt.class
 psdi\iface\sap\extexit\M2SConvExit.class
 psdi\iface\sap\extexit\MapFIAPIn.class
 psdi\iface\sap\extexit\MapFIAPOut.class
 psdi\iface\sap\extexit\MapGLOut.class
 psdi\iface\sap\extexit\MoutAPEExt.class
 psdi\iface\sap\extexit\MoutGLEExt.class
 psdi\iface\sap\extexit\S2MConvExit.class
 psdi\iface\sap\extexit\SAPData.class

Issue**10488****Description**

The MEA for SAP now adds SAPSITEPREF to PRs being transferred to SAP R/3.

Replaced Files

psdi\iface\sap\extexit\MaxAPEExt.class
 psdi\iface\sap\extexit\MaxCOAExt.class
 psdi\iface\sap\extexit\MaxComExt.class
 psdi\iface\sap\extexit\MaxISUEExt.class
 psdi\iface\sap\extexit\MaxItmExt.class
 psdi\iface\sap\extexit\MaxPOExt.class
 psdi\iface\sap\extexit\MaxRCVExt.class
 psdi\iface\sap\extexit\MoutISUEExt.class
 psdi\iface\sap\extexit\MoutPOExt.class
 psdi\iface\sap\extexit\MoutPREExt.class
 psdi\iface\sap\extexit\MoutRCVExt.class
 psdi\iface\sap\extexit\M2SConvExit.class
 psdi\iface\sap\extexit\MapFIAPIn.class
 psdi\iface\sap\extexit\MapFIAPOut.class
 psdi\iface\sap\extexit\MapGLOut.class
 psdi\iface\sap\extexit\MoutAPEExt.class
 psdi\iface\sap\extexit\MoutGLEExt.class
 psdi\iface\sap\extexit\S2MConvExit.class
 psdi\iface\sap\extexit\SAPData.class

Issue**10500****Description**

The MEA for SAP now breaks up batches into smaller groups to avoid memory errors.

Replaced Files

SAP-Side\programs\ZB2BREPR001
 SAP-Side\programs\ZB2BREPR002
 SAP-Side\programs\ZB2BREPR003
 SAP-Side\programs\ZB2BREPR004
 SAP-Side\programs\ZB2BREPR005
 SAP-Side\programs\ZB2BREPR006

Resolved Issues

SAP-Side\programs\ZB2BREPR007
SAP-Side\programs\ZB2BREPR008
SAP-Side\programs\ZB2BREPR009
SAP-Side\programs\ZB2BREPR010
SAP-Side\programs\ZB2BREPR012
SAP-Side\programs\ZB2BREPR100
SAP-Side\programs\ZB2BREPRC21
SAP-Side\programs\ZB2BREPRC22
SAP-Side\programs\ZB2BREPRC23
SAP-Side\programs\ZB2BREPRC24
SAP-Side\programs\ZB2BREPRC25

Issue	10523
Description	FI invoices now have RECEIPTREQUIRED flag set to No, so that service receipts are created.
Replaced Files	psdi\iface\sap\extexit\MaxAPExt.class psdi\iface\sap\extexit\MaxCOAExt.class psdi\iface\sap\extexit\MaxComExt.class psdi\iface\sap\extexit\MaxISUExt.class psdi\iface\sap\extexit\MaxItmExt.class psdi\iface\sap\extexit\MaxPOExt.class psdi\iface\sap\extexit\MaxRCVExt.class psdi\iface\sap\extexit\MoutISUExt.class psdi\iface\sap\extexit\MoutPOExt.class psdi\iface\sap\extexit\MoutPRExt.class psdi\iface\sap\extexit\MoutRCVExt.class psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapFIAPOut.class psdi\iface\sap\extexit\MapGLOut.class psdi\iface\sap\extexit\MoutAPExt.class psdi\iface\sap\extexit\MoutGLExt.class psdi\iface\sap\extexit\S2MConvExit.class psdi\iface\sap\extexit\SAPData.class

Revision 9

Issue	032834
Description	GetSAPDate routine converts to standard date format yyyyMMdd every time.
Replaced Files	psdi\iface\sap\extexit\M2SConvExit wm\sapintegration\code\classes\SAPAdapter.class wm\sapintegration\code\classes\SAPUtil.class
Issue	032913
Description	Integration now obtains ORGID and SITEID from ER control area as organization and site.
Replaced Files	psdi\iface\sap\extexit\MoutRCVExt wm\sapintegration\code\classes\SAPAdapter.class wm\sapintegration\ns\sapintegration\SAPFlows\SAP2MAX\flow.xml

Issue	032960
Description	SAP needs a unit of measure equal to one, but SERVRECTRANS has no conversion. Code changed to check POLINE.CONVERSION instead.
Replaced Files	psdi\iface\sap\extexit\MoutRCVExt wm\sapintegration\code\classes\SAPAdapter.class wm\sapintegration\ns\sapintegration\SAPFlows\SAP2MAX\flow.xml
Issue	032998
Description	GL transactions need a unique TRANSID field.
Replaced Files	psdi\iface\sap\extexit\M2SConvExit wm\sapintegration\code\classes\SAPAdapter.class wm\sapintegration\code\classes\SAPUtil.class
Issue	9518
Description	The MEA for SAP now maps cost center and GL Account correctly.
Replaced Files	psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\MapFIAPOut.class psdi\iface\sap\extexit\MoutAPEExt.class psdi\iface\sap\extexit\SapOutExt.class
Issue	9519
Description	GL component change causing all components to be mapped rather than just specified component.
Replaced Files	psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\MapFIAPOut.class psdi\iface\sap\extexit\MoutAPEExt.class psdi\iface\sap\extexit\SapOutExt.class
Issue	10164
Description	Extra validation on GL Accounts when sending data. Maximo does same validation.
Replaced Files	psdi\iface\sap\extexit\MaxCOAExt.class psdi\iface\sap\extexit\MoutAPEExt.class psdi\iface\sap\extexit\MoutGLEExt.class psdi\iface\sap\extexit\MoutISUExt.class psdi\iface\sap\extexit\MoutLPYExt.class psdi\iface\sap\extexit\MoutPOExt.class psdi\iface\sap\extexit\MoutPREExt.class psdi\iface\sap\extexit\MoutRSVExt.class psdi\iface\sap\extexit\MoutWoExt.class psdi\iface\sap\extexit\SapOutExt.class
Issue	10179

Resolved Issues

Description	Error occurs during GL transactions due to duplicate values in GLCOMPONENTS table.
Replaced Files	psdi\iface\sap\extexit\MaxCOAExt.class psdi\iface\sap\extexit\MoutAPEExt.class psdi\iface\sap\extexit\MoutGLEExt.class psdi\iface\sap\extexit\MoutISUEExt.class psdi\iface\sap\extexit\MoutLPYExt.class psdi\iface\sap\extexit\MoutPOExt.class psdi\iface\sap\extexit\MoutPREExt.class psdi\iface\sap\extexit\MoutRSVExt.class psdi\iface\sap\extexit\MoutWoExt.class psdi\iface\sap\extexit\SapOutExt.class

Revision 8

Issue	026422
Description	Non-base currency was not mapped correctly. Mapping was changed to create receipts properly.
Replaced File	psdi\iface\sap\extexit\MapVarAPIIn.class
Issue	031666
Description	Transactions being sent to SAP need a unique ID.
Replaced Files	psdi\iface\install\InstallSAPControls psdi\iface\sap\extexit\M2SConvExit psdi\iface\sap\extexit\SAPData wm\sapintegration\code\classes\SAPUtil.class wm\sapintegration\code\classes\SAPAdapter.class
Issue	031753
Description	The MEA for SAP now obtains Yes/No values differently, depending on whether MXServer is running or not.
Replaced Files	psdi\iface\install\InstallSAPControls psdi\iface\sap\extexit\M2SConvExit psdi\iface\sap\extexit\SAPData wm\sapintegration\code\classes\SAPUtil.class wm\sapintegration\code\classes\SAPAdapter.class
Issue	031961
Description	Corrected comments and loading of properties.
Replaced Files	psdi\iface\sap\extexit\MapMMAPIIn.class psdi\iface\sap\extexit\MapPOIn.class psdi\iface\sap\extexit\MaxAPEExt.class psdi\iface\sap\extexit\MaxCOAExt.class psdi\iface\sap\extexit\SAPConvert.class

resources\defaults\ifacesap.txt
 wm\sapintegration\code\classes\SAPUtil.class

Issue **032432**
Description Mapping error occurs when sending POs from SAP R/3 to Maximo.
Replaced Files wm\sapintegration\ns\sapintegration\SAPMaps
 \MMINVOICEIN\flow.xml
 wm\sapintegration\ns\sapintegration\SAPMaps
 \MMINVOICEIN\node.ndf
 wm\sapintegration\ns\sapintegration\SAPMaps \POIN\flow.xml
 wm\sapintegration\ns\sapintegration\SAPMaps \POIN\node.ndf
 wm\sapintegration\ns\sapintegration\SAPRecords \MMInvoiceIn\node.ndf

Issue **032500**
Description Batchwrap needs a system number to connect to SAP R/3. Receive.config file is now updated with system number parameter.
Replaced Files wm\mroMxSapR3LINK\code\libs\batchwrap.exe
 wm\mroMxSapR3LINK\config\Receive.config
 wm\mroRepository\code\classes\InvokeUtils.class
 wm\mroRepository\code\classes\Utils.class
 wm\mroRepository\code\classes\mroRepository \configuration.class
 wm\mroRepository\code\classes\mroRepository \polling.class
 wm\mroRepository\code\classes\mroRepository \receive.class
 wm\mroRepository\code\classes\mroRepository \startUpShutDown.class

Issue **032501**
Description Encoding parameter added to RecordToDocument service to avoid errors with data containing special characters.
Replaced Files wm\mroMxSapR3LINK\code\libs\batchwrap.exe
 wm\mroMxSapR3LINK\config\Receive.config
 wm\mroRepository\code\classes\InvokeUtils.class
 wm\mroRepository\code\classes\Utils.class
 wm\mroRepository\code\classes\mroRepository \configuration.class
 wm\mroRepository\code\classes\mroRepository \polling.class
 wm\mroRepository\code\classes\mroRepository \receive.class
 wm\mroRepository\code\classes\mroRepository \startUpShutDown.class

Issue **032726**
Description Changed UTRANSTYPE from XCI to XCGI for GL components (configuration 3).
Replaced Files psdi\iface\sap\extexit\MapMMAPIn.class
 psdi\iface\sap\extexit\MapPOIn.class
 psdi\iface\sap\extexit\MaxAPEExt.class
 psdi\iface\sap\extexit\MaxCOAExt.class
 psdi\iface\sap\extexit\SAPConvert.class

resources\defaults\ifacesap.txt
wm\sapintegration\code\classes\SAPUtil.class

Revision 7

Issue 028654
Description Integration now lets more than one version of SapInbound run concurrently.
Replaced Files
wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Inbound.class
wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKProcess\Start.class
wm\mroMxSapR3LINK\code\classes
 \mroMxSapR3LINKServices\Utils.class
wm\mroMxSapR3LINK\ns\mroMxSapR3LINKServices
 \SapInbound\flow.xml
wm\mroMxSapR3LINK\ns\mroMxSapR3LINKServices
 \SapInbound\node.ndf
wm\mroMxSapR3LINK\pub\mroMxSapR3LINK.js
wm\mroMxSapR3LINK\pub\Services.dsp

Issue 028377
Description Match PO unit cost to Receipt unit cost.
Replaced Files
psdi\iface\sap\extexit\MaxAPExt.class
psdi\iface\sap\extexit\MoutRCVExt.class

Issue 028818
Description Integration now accepts invoice lines that reference a PO but no PO line number. Lines now come in as a service.
Replaced Files
psdi\iface\sap\extexit\MaxAPExt.class
psdi\iface\sap\extexit\MoutRCVExt.class

Revision 6

Issue 031162
Description EXTInstallSAP.sh file must be compatible with AIX.

Issue 031163
Description Added upgrade flag and removed MXFormat Yes/No for SAP-only installs. Yes/No is now retrieved from MAXVARS.
Replaced Files
psdi\iface\install\EXTInstallSAP
psdi\iface\install\InstallSAPControls
unix_shell_scripts\EXTInstallSAP.sh

Revision 5

Issue	026018
Description	The MEA for SAP now groups reservations when there are multiple reservations for one work order.
Replaced Files	SAP-Side/function groups/ZB2B_M2S/ Z_B2B_BDC_RESERVE_MATERIAL_R46 SAP-Side/function groups/ZB2B_M2S/ Z_B2B_BDC_CHG_RESERVATIONS_R46
Issue	026422
Description	Non-base currency was not mapped correctly. Mapping now creates receipts properly.
Replaced Files	psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapMMAPIn.class psdi\iface\sap\extexit\MapRCVIn.class psdi\iface\sap\extexit\MapVarAPIIn.class psdi\iface\sap\extexit\MaxAPEExt.class psdi\iface\sap\extexit\MaxRCVExt.class psdi\iface\sap\extexit\SAPConvert.class psdi\iface\sap\extexit\SAPData.class
Issue	028655
Description	When loading the supply.config file, the MEA for SAP now references the SAPConvert.class file.
Replaced Files	psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapMMAPIn.class psdi\iface\sap\extexit\MapRCVIn.class psdi\iface\sap\extexit\MapVarAPIIn.class psdi\iface\sap\extexit\MaxAPEExt.class psdi\iface\sap\extexit\MaxRCVExt.class psdi\iface\sap\extexit\SAPConvert.class psdi\iface\sap\extexit\SAPData.class

Revision 4

Issue	018704
Description	Error occurs retrieving metadata in IDocReceive.
Issue	025669
Description	Batch process error occurs when there is no data in the batch XML.
Issue	026129
Description	Need extra parameter to sign in to SAP for load balancing.
Replaced Files	wm\mroMxSapR3LINK\code\classes \mroMxSapR3LINKProcess\Batch.class wm\mroMxSapR3LINK\code\libs\batchwrap.exe

wm\mroMxSapR3LINK\code\libs\idocwrap.dll
wm\mroMxSapR3LINK\config\Receive.config

Revision 3

Issue	022557
Description	Error occurs in MXServer - Invoice Variance.
Replaced File	psdi\iface\sap\extexit\MaxAPEExt.class
Issue	024028
Description	An error occurs when ABAP report ZB2BREPR010 is run.
Replaced Files	psdi\iface\sap\extexit\MapPRIn.class SAP-Side/programs/ZB2BREPR010 SAP-Side/structure/ZB2B_S2M_PURCHASEREQ.txt wm/sapintegration/ns/sapintegration/SAPRecords/PRIn/node.ndf
Issue	024938
Description	PR with Service Item Delivery Date is required in SAP R/3.
Replaced Files	psdi\iface\sap\extexit\MapPROut.class psdi\iface\sap\extexit\MoutPREExt.class psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\S2MConvExit.class resources/defaults/ifacesap.txt
Issue	024939
Description	The MEA for SAP now maps PR number to BANFN.
Replaced Files	psdi\iface\sap\extexit\MapPRIn.class SAP-Side/programs/ZB2BREPR010 SAP-Side/structure/ZB2B_S2M_PURCHASEREQ.txt wm/sapintegration/ns/sapintegration/SAPRecords/PRIn/node.ndf
Issue	024940
Description	ZB2BREPR010 report now sends PR status update when all lines are deleted.
Replaced Files	psdi\iface\sap\extexit\MapPRIn.class SAP-Side/programs/ZB2BREPR010 SAP-Side/structure/ZB2B_S2M_PURCHASEREQ.txt wm/sapintegration/ns/sapintegration/SAPRecords/PRIn/node.ndf
Issue	025256
Description	Date format for transactions in Maximo and MEA now match.
Replaced Files	psdi\iface\sap\extexit\MapPROut.class psdi\iface\sap\extexit\MoutPREExt.class psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\S2MConvExit.class resources/defaults/ifacesap.txt

Revision 2

Issue	024048
Description	Correct GLCREDIT and GLDEBIT account sections need to be mapped.
Replaced Files	psdi\iface\sap\extexit\MapGLOut.class psdi\iface\sap\extexit\M2SConvExit.class
Issue	024071
Description	EXTERNALREFID column in INVOICE table now has a length of 30.
Replaced File	psdi\iface\install\EXTInstallSAP

Revision 1

Issue	023139
Description	The MEA for SAP now includes PR updates to Maximo with the SAP Link.
Replaced Files	psdi\iface\sap\extexit\MapPRIn.class psdi\iface\sap\extexit\MapPRExt.class wm/sapintegration/code/classes/SAPAdapter wm/sapintegration/ns/sapintegration/SAPMaps/PRIN/node.ndf wm/sapintegration/ns/sapintegration/SAPMaps/PRIN/flow.xml wm/sapintegration/ns/sapintegration/SAPRecords/PRIn/node.ndf

Issue	023483
Description	SAP R/3 contract fails on import into Maximo.
Replaced Files	psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\MapContractIn.class psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapLPYOut.class psdi\iface\sap\extexit\MapVarAPIn.class psdi\iface\sap\extexit\MaxComExt.class psdi\iface\sap\extexit\S2MConvExit.class psdi\iface\sap\extexit\SAPConvert.class psdi\iface\sap\extexit\SapOutExt.class

Issue	023610
Description	An error occurs in Maximo when exporting a labor transaction on an approved work order.
Replaced Files	psdi\iface\sap\extexit\M2SConvExit.class psdi\iface\sap\extexit\MapContractIn.class psdi\iface\sap\extexit\MapFIAPIn.class psdi\iface\sap\extexit\MapLPYOut.class psdi\iface\sap\extexit\MapVarAPIn.class psdi\iface\sap\extexit\MaxComExt.class psdi\iface\sap\extexit\S2MConvExit.class

Resolved Issues

psdi\iface\sap\extexit\SAPConvert.class
psdi\iface\sap\extexit\SapOutExt.class

Issue **023835**

Description The ABAP report ZB2BREPR007 (Data Equalization - Vendor Master) now deletes vendors in Maximo one by one if no open transactions exist against that vendor.

Replaced Files
psdi\iface\sap\extexit\M2SConvExit.class
psdi\iface\sap\extexit\MapContractIn.class
psdi\iface\sap\extexit\MapFIAPIn.class
psdi\iface\sap\extexit\MapLPYOut.class
psdi\iface\sap\extexit\MapVarAPIIn.class
psdi\iface\sap\extexit\MaxComExt.class
psdi\iface\sap\extexit\S2MConvExit.class
psdi\iface\sap\extexit\SAPConvert.class
psdi\iface\sap\extexit\SapOutExt.class

Issue **024234**

Description Need SAP install only files for UNIX and Microsoft Windows.

Replaced Files
unix_shell_scripts/version.sh
unix_shell_scripts/EXTInstallSAP.sh
psdi/iface/doc/EXTInstallSAP.bat

Issue **024235**

Description Within the user exits, javadocs now reflects changes for release.

Replaced Files
unix_shell_scripts/version.sh
unix_shell_scripts/EXTInstallSAP.sh
psdi/iface/doc/EXTInstallSAP.bat

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