Release Notes
MAXIMO 5.2 Patch 02A

maximo®

Release 5.2
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mro software

Contents

OVERVIEW

Installing MAXIMO 5.2 Program Patches requires system administrator rights and privileges, and should be performed by a system administrator.

Installing MAXIMO 5.2 Patch 02A requires current MAXIMO Revision level to be at **Patch 01A** (revision level 5.2.049) or **Patch 02** (revision level 5.2.150). If you have multiple MAXIMO folders or directories, you must run the patch utilities once for each MAXIMO folder or directory.

IMPORTANT **HOT FIX AWARENESS**

To prevent overwriting existing Hot Fixes that are potentially later than **Patch 02A** (5.2.150), all Hot Fixes sent to customers have a file named **hotfix** that is installed to the MAXIMO root folder. The hotfix file contains the date of the hotfix in mm-dd-yyyy format. The installation program searches for the hotfix file and if found, parses the date contained within the file. If you are upgrading from:

- Patch 01A and the hotfix date is greater than or equal to **06-14-2004**, or

- Patch 02 and the hotfix date is greater than or equal to **08-17-2004**,

the install warns you to contact the MRO Support Online prior to installing the patch. You are given the choice to either continue with the installation or quit the program.

Fixed Issues

The list of Fixed Issues for the Patch are in Appendix D: "MAXIMO 5.2 Patch 02A Fixed Issues" on page D-41.

Automated Update Process

The MAXIMO update program establishes which versions of files are currently installed and makes the appropriate application file substitutions/additions. The effect of the automated process to the JSP files is described below.

JSP Files

The update utility searches and replaces sections of MAXIMO JSP files with updated information. If there is a section of code in the JSP file that you have previously modified, it may not be updated automatically by the Patch.

The utility searches JSP files line by line to check for modifications. If it discovers modified JSP code that needs to be updated, it skips that line and generates an entry in a log file that explains what the update program attempted to do and provides a code sample that illustrates the change.

This has been done so the automatic update utility doesn't overwrite customizations you may want to keep. Upon completion, the update utility displays a message that the update is complete, along with the location and name of the log file.

The log file is located in the MAXIMO root directory and is named JspUpdate.log. Use the log file to manually apply the changes that were not performed by the update. Detailed instructions on modifying a JSP file are located in the Software Design Studio (SDS) Help.

Use JspUpdate.xml file in conjunction with the log files to manually make updates that were not performed.

Considerations

The following is a list of critical items to consider before installing MAXIMO 5.2 Patch 02A.

- Verify that the current MAXIMO is at patch level 01A (revision level is 5.2.049) or Patch 02 (revision level is 5.2.150). To determine the currently installed version: in Windows, from the command prompt in the MAXIMO folder, type **version.bat** and press **Enter**; in UNIX, from a shell command in the MAXIMO directory, type **./version.sh** and press **Enter**.

- Backup all databases and the entire MAXIMO install directory before implementing any Patch. This protects against data loss in the event of installation failure or corruption.

Important
- Stop the MRO RMI Service if it has started, prior to installing the Patch.

- Determine whether or not your system is using the MAXIMO Enterprise Adapter (MEA). If so, please see MEA installation section on page page A-27.

- MRO Software strongly recommends that you test this Patch thoroughly in a non-production environment before migrating to a production environment(s).

Non-English Language Consideration

Patch 02A is language independent. You must be at Patch 01A or Patch 02 prior to installing Patch 02A.

If you are at Patch **Level 01A** and use MAXIMO Actuate Reports, please note that you must manually modify and install two files included with this patch. Please see "Actuate Reports" on page 4-23 for details.

Installation Check List -- Patch 01A

This checklist provides an overview of the installation process for users upgrading from Patch 01A. For installation instructions continue with the following chapter(s).

[   ] **1.** Determine the current software version(s)

[   ] **2.** Process all transactions in queues (MEA Users Only)

[   ] **3.** Stop the MAXIMO application server(s)/service(s)

[   ] **4.** Stop the MRO RMI service (Windows users only)

[   ] **5.** Remove existing MRO RMI Service

[   ] **6.** Stop the Actuate server(s)/service(s)

[   ] **7.** Stop the webMethods server(s)/service(s) (MEA Users Only)

[   ] **8.** Back up the entire <MAXIMO> folder

[   ] **9.** Back up entire webMethods B2B folder (MEA Users Only)

[   ] **10.** Back up your database

[   ] **11.** Install the MAXIMO 5.2 Patch 02A

[   ] **12.** Verify JspUpdate.log

[   ] **13.** Delete Temporary folder/directories (WebSphere Users Only)

[   ] **14.** Manually update JSP files (for file fixes not installed by MX52P02A autoupdate)

[   ] **15.** Install the MEA Update (only for users upgrading from Patch 01A)

[   ] **16.** Install and start the MRO RMI Service (Windows users only)

[   ] **17.** Re-build (if not autogenerated) and Deploy the EAR files

[   ] **18.** Verify that MEA is at correct revision level (MEA Users Only)

Installation Check List -- Patch 02

This checklist provides an overview of the installation process for users upgrading from Patch 02. For installation instructions continue with the following chapter(s).

[ ] 1. Determine the current software version(s)

[ ] 2. Process all transactions in queues (MEA Users Only)

[ ] 3. Stop the MAXIMO application server(s)/service(s)

[ ] 4. Stop the MRO RMI service (Windows users only)

[ ] 5. Stop the Actuate server(s)/service(s)

[ ] 6. Stop the webMethods server(s)/service(s) (MEA Users Only)

[ ] 7. Back up the entire <MAXIMO> folder

[ ] 8. Back up entire webMethods B2B folder (MEA Users Only)

[ ] 9. Back up your database

[ ] 10. Install the MAXIMO 5.2 Patch 02A

[ ] 11. Delete Temporary folder/directories (WebSphere Users Only)

[ ] 12. Start the MRO RMI Service (Windows users only)

[ ] 13. Re-build (if not autogenerated) and Deploy the EAR files

[ ] 14. Verify that MEA is at correct revision level (MEA Users Only)

INSTALLING MAXIMO 5.2 PATCH 02A: WINDOWS PLATFORM

This chapter describes how to install the Patch on a Windows operating system.

MRO software strongly recommends that you perform this update in a test environment prior to updating your production environment.

Pre-Installation Tasks

To install MAXIMO 5.2 Patch 02A, complete the following pre-installation tasks.

1 Determine the current software version(s) by typing **version.bat** from a command prompt.

The MAXIMO (and optionally MEA) version appears as the final three digits of the build description. For example, nnn indicates the installed version and xx indicates the database version.

```
C:\MAXIMO>version

MAXIMO Application Server 5.2.0  Build 016 nnn, DB Build V520-xx

MAXIMO Enterprise Adapter (MEA) 5.2.0. Build MEA016 nnn, DB Build
V520MEA-xx


For MAXIMO 5.2 Patch 02A the build number is Build 016 150 DB Build V520-
3

For MAXIMO 5.2 Patch 02A, MAXIMO Enterprise Adapter (MEA) Release 5.2.
Build 061 150, DB Build V520MEA-3
```

2 (**MEA Users Only**) Process all transactions in queues.

   a You must process all transactions in the inbound and outbound queues before installing this Patch.

b Connect to the MAXIMO schema owner to determine if there are any outstanding transactions and execute the following SQL statements.

```
select count(*) from mout_interdata;

select count(*) from max_interdata;

select count(*) from max_interdata_bat;
```

The tables should not contain any rows. That is, all of the counts should be zero. If the counts are not zero, fix any transactions in error, and allow all of the records to process.

Once you apply the Patch, you will be unable to process the outstanding transactions, since the format has changed.

3 Stop the MAXIMO application server(s)/service(s).

Important **4** Stop the MRO RMI Service.

Note 1 If you are upgrading from **Patch 1A**, you *must* remove the existing MRO RMI Service and install the version included in this patch. See Issue number 61958 that is fixed in this patch.

Note 2 If you are upgrading from **Patch 02**, skip to Step 6.

5 Navigate to the MAXIMO root folder and from a command prompt execute the following command:

```
c:\<MAXIMO_root>\>rmiservice -remove
```

The following message appears:

```
MRO Registry Loader - NT Service Installer v5.0

Copyright (C) MRO Software Inc. 1998-2001.

All rights reserved.

Removing service: rmiservice
```

The MRO RMI Registry Loader (rmiservice) service has been sucessfully removed.

6 Stop the Actuate server(s)/service(s).

7 Back up your entire <MAXIMO> folder.

8 (MEA Users Only) Back up the entire webMethods B2B folder.

9 Back up your database.

Installing the Patch

To install MAXIMO 5.2 Patch 02A, complete the following tasks.

1 Download the Patch file **Windows_MX52P02A.zip** from the MRO Product Support Web site (http://support.mro.com) to your application server.

2 Extract the file **MX52P02A.exe** to a temporary folder.

3 Navigate to the temporary folder and double-click **MX52P02A.exe**.

Updated JSP files related to MAXIMO 5.2 Patch 02A will be placed in the following folder <MAXIMO Root>\user_files.

This serves the following purpose:

- If the jsp autoupdate program fails to install the jsp fixes due to customizations or other reasons, the fixed version of these files will be available under the appropriate folder in <MAXIMO Root>\user_files\jsp folder.

  Review the log file to determine your customized jsp files that auto-update did not update. Yo must manually re-implemented your customized updates to the jsp pages.

4 Click Next in the Introduction dialog box
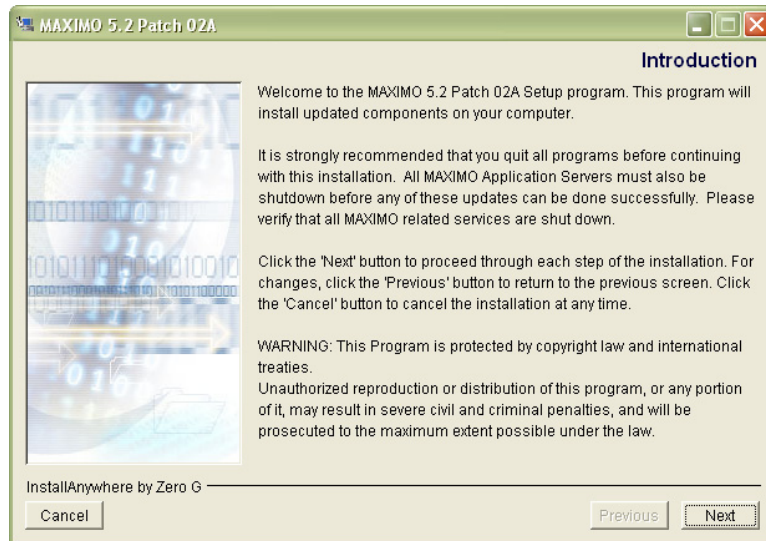
5 Select the MAXIMO root folder and click **Next** in the Choose a Folder dialog box.

6 Select the appropriate Application Server and click **Next**.

- • WebLogic users continue with the next step.
- • WebSphere users, skip to step 8.

7 Accept the default (c:\bea) BEA installation location and click **Next**.
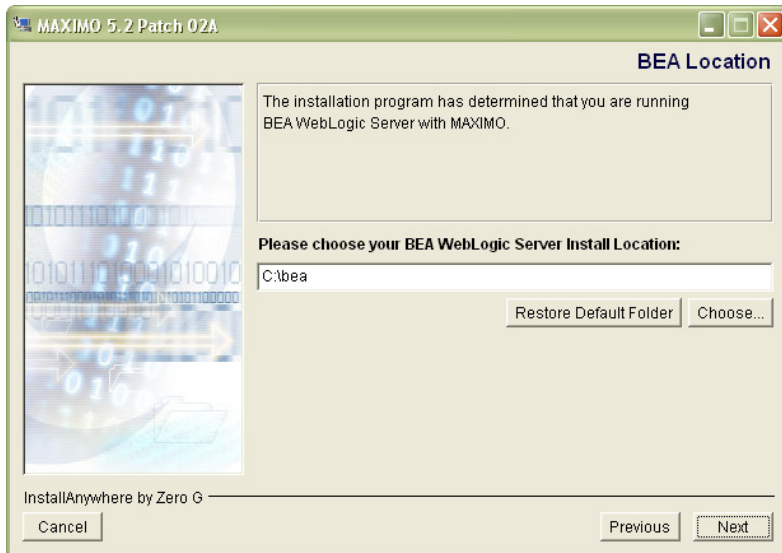
If you are not at MAXIMO 5.2 Patch 01A, a dialog box indicating your software version opens. Click **OK** to terminate the installtion process and then perform the necessary procedures to install MAXIMO 5.2 Patch 01A. You can obtain patch 01A and Release Notes from http://support.mro.com.

To prevent overwriting existing Hot Fixes that are potentially later than **Patch 02A** (5.2.150), all Hot Fixes sent to customers have a file named **hotfix** that is installed to the MAXIMO root folder. The hotfix file contains the date of the hotfix in mm-dd-yyyy format. The installation program searches for the hotfix file and if found, parses the date contained within the file. If you are upgrading from:

- Patch 01A and the hotfix date is greater than or equal to **06-14-2004**, or
- Patch 02 and the hotfix date is greater than or equal to **08-17-2004**,

the install warns you to contact the MRO Support Online prior to installing the patch. You are given the choice to either continue with the installation or quit the program.

If you decide to continue with the install program, click **Continue Install**. If you have not applied a hotfix as listed above, you will not get this dialog box and continue with the next step.

8 Accept the default (C:\autoupdate) and click **Next**.
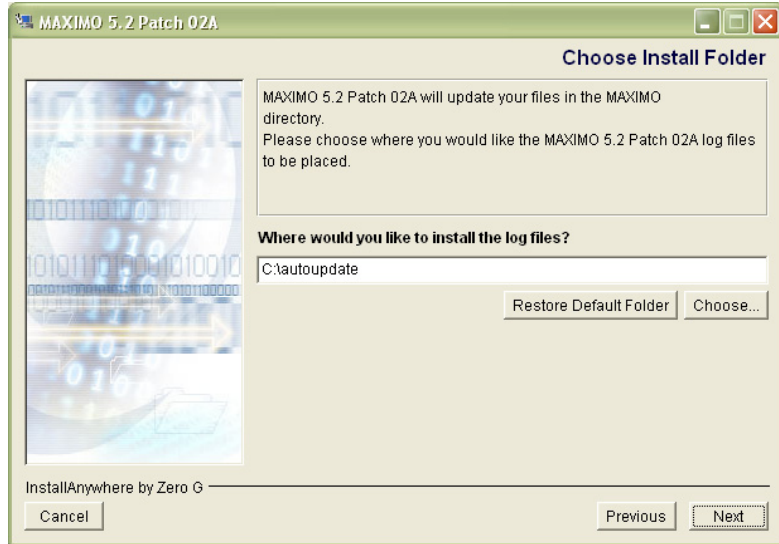
9 Click Next in the Pre-Installation dialog box.
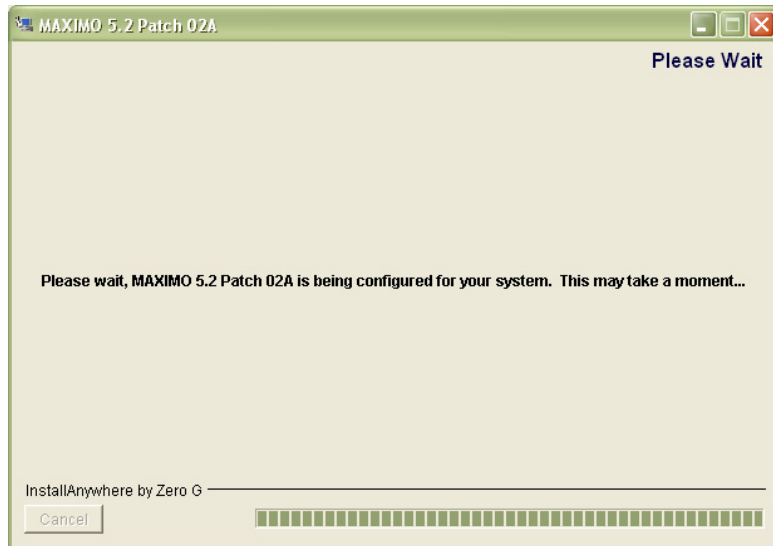
When the installation is finished the **Build EAR Files** dialog box opens.
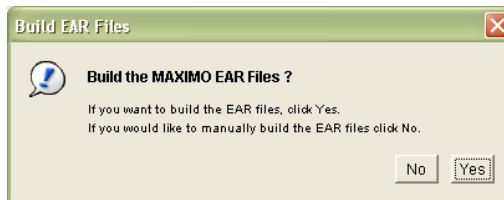
10 The auto update builds the EAR files. Select either of the following options:

> **Yes** – EAR files will be built automatically
>
> **No** – If you would like to manually build the EAR files.

11 Select either of the following options:

- **Yes** – If you have read the Release Notes.
- **No** – If you have not read the Release Notes. (If no, a reminder will appear.)
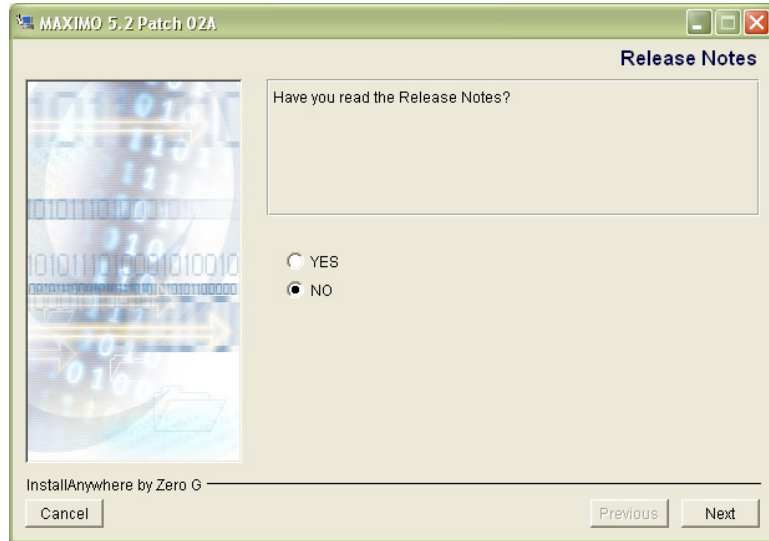
12 Click OK in the Release Notes dialog box.
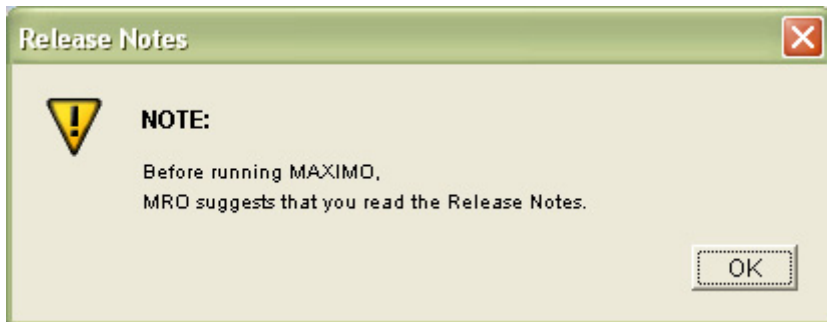
13 Click Done.

Post Installation Tasks

After you install the patch, complete the following tasks before restarting your MAXIMO Application server(s).

Delete Folders (WebSphere Users Only)

Delete all folders located in the **<WebSphere\AppServer\temp>** folder.

Manually Update JSP Files

If the jsp autoupdate program fails to install the jsp fixes due to customizations, or for other reasons, the non-customized version of these files will be available under the appropriate folder in *<MAXIMO Root>*\ **user_files\jsp** folder. Review the *<MAXIMO Root>***JspUpdate.log** log file to determine if the auto-update did not completely update the jsp files due to the customizations. If the fix has not been implemented by the JspUpdate program, the JspUpdate.log file will contain a message that says **"NO MATCH FOUND"** for that fix. These customizations have not updated and will need to be manually re-implemented.

NOTE: Use the JspUpdate.xml file in conjunction with the log files to manually make updates that were not performed. If you use EAR files, you must rebuild and redeploy the EAR files as a result of this action. Please see "How to Build the EAR Files" on page B-31.

The list of JSP file updates for this Patch can be found in Appendix C: "JSP Updates" on page C-39.

Install the MEA Update

This step applies only to customers who are using the MAXIMO Enterprise Adapter (MEA) and who are at the Patch 01A level.

The MAXIMO Enterprise Adapter Installation Procedure must be completed before restarting your MAXIMO Application Server.

See Appendix A "Installing MAXIMO Enterprise Adapter" on page A-27 for the steps to update your MAXIMO Enterprise Adapter.

Install the RMI Service

Users upgrading from **Patch 01A** *must* install the MAXIMO RMI Service. Complete the following steps:

1 Navigate to MAXIMO root folder.

2 From a command prompt execute the following command:

```
c:\<MAXIMO_root>\>rmiservice -install
```

The following message appears:

```
MRO Registry Loader - NT Service Installer v5.0
Copyright (C) MRO Software Inc. 1998-2001.
All rights reserved.
      Service Name:   rmiservice
      Service Title:  MRO RMI Registry Loader (rmiservice)
```

The MRO RMI Registry Loader (rmiservice) service has been successfuly installed.

3 Close the command prompt.

4 Start the MRO RMI Service.

Building and Deploying EAR Files

See "How to Build the EAR Files" on page B-31 for instructions on using EAR files.

Verifying the MEA Update

Connect to the database as the schema owner (i.e. default is MAXIMO) through an appropriate SQL utility and execute the following statement:

```
select * from maxvars where varname='MEAUPG'
```

The **varvalue** in the output should **= V520MEA-3**

INSTALLING **MAXIMO 5.2 PATCH 02A: UNIX PLATFORM**

This chapter describes how to install the Patch on the UNIX – (Solaris, HP-UX, AIX) operating systems.

MRO Software strongly recommends that you perform this update in a test environment prior to updating your production environment.

Pre-Installation Tasks

To install MAXIMO 5.2 Patch 02A, complete the following pre-installation tasks.

1 Determine the current software version(s) by typing **./version.sh** from a command line in the MAXIMO directory.

The MAXIMO (and optionally MEA) version appears as the final three digits of the build description. For example, nnn indicates the installed version and xx indicates the database version.

```
$ ./version.sh

MAXIMO Application Server 5.2.0  Build 016 nnn, DB Build V520-xx

MAXIMO Enterprise Adapter (MEA) 5.2.0. Build MEA016, DB Build
V520MEA-xx


For MAXIMO Patch 02A the build number is Build 016 150 DB Build V520-3
```

2 (**MEA Users Only**) Process all transactions in queues.

   a You must process all transactions in the inbound and outbound queues before installing this Patch.

b Connect to the MAXIMO schema owner to determine if there are any outstanding transactions and execute the following SQL statements.

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

The tables should not contain any rows. That is, all of the counts should be zero. If the counts are not zero, fix any transactions in error, and allow all of the records to process.

Once you apply the Patch, you will be unable to process the outstanding transactions, since the format has changed.

3 Stop the MAXIMO Application Server(s).

4 Stop the Actuate server(s).

5 Back up your entire <MAXIMO> directory.

6 Back up the entire webMethods B2B folder.

7 Back up your database.

Installing the Patch in X-Windows Mode

You can install the patch in either X Windows mode or console mode. See "Installing the Patch in Console Mode" on page 3-20 for Console Mode Instructions.

To install MAXIMO 5.2 Patch 02A in X-Windows Mode, complete the following tasks.

1 Download the appropriate Patch file from the MRO Product Support Web site to your computer.

<div align="center">

Table 1: Platform-specific Patch

Solaris	Solaris_MX52P02A.zip
HP-UX	HP_MX52P02A.zip
AIX	AIX_MX52P02A.zip

</div>

2 Extract the file MX52P02A.bin to a temporary folder on the PC.

- If the jsp autoupdate program fails to install the jsp fixes due to customizations or for other reasons, the non-customized version of these files will be available under the appropriate folder in <MAXIMO>/user_files/jsp directory. Review the log file to determine if the auto-update did not completely update the jsp files due to the customization. These customizations have not updated will need to be manually re-implemented.

3 FTP the file **MX52P02A.bin** in binary mode from the PC to the Solaris, HP-UX, or AIX application server.

4 Add execute permissions with the following command:

`chmod +x MX52P02A.bin`

5 Execute the update program: **./MX52P02A.bin**

6 Click **Next**.

7 Enter the path of the directory to which the installation program will install the MAXIMO update.
For example: /export/home/mxadmin/MAXIMO.

8 If you are not at Patch 01A, a dialog box indicating your software version opens. Click **OK** and take appropriate action.

To prevent overwriting existing Hot Fixes that are potentially later than **Patch 02A** (5.2.150), all Hot Fixes sent to customers have a file named **hotfix** that is installed to the MAXIMO root folder. The hotfix file contains the date of the hotfix in mm-dd-yyyy format. The installation program searches for the hotfix file and if found, parses the date contained within the file. If you are upgrading from:

- Patch 01A and the hotfix date is greater than or equal to **06-14-2004**, or

- Patch 02 and the hotfix date is greater than or equal to **08-17-2004**,

the install warns you to contact the MRO Support Online prior to installing the patch. You are given the choice to either continue with the installation or quit the program.

If you decide to continue with the install program, click **Continue Install**. If you have not applied a hotfix as listed above, you will not get this dialog box and continue with the next step.

9 Click **Next**.

10.Choose a destination for the .log file created during the update process. For example: /export/home/ mxadmin/autoupdate.

11 Click **Next**. The Pre-Installation Summary appears.

12 Review the summary. If you want to change something on a previous step, click **Previous**. Click **Install** to install the update.

13 The auto update builds the EAR files. Select either of the following options:

   Yes – EAR files will be built automatically

   No – If you would like to manually build the EAR files.
   When the **Release Notes** screen appears, the installation process is complete.

14 Select either of the following options:

- **Yes**: If you have read the Release Notes.

- **No**: If you have not read the Release Notes. (If no, a reminder will appear. Click **Done** to exit the installer.

Installing the Patch in Console Mode

To install MAXIMO 5.2 Patch 02A in Console Mode, complete the following tasks.

1 Download the appropriate Patch file from the MRO Product Support Web site to your computer

Table 2: Platform-specific Patch

Solaris	Solaris_MX52P02A.zip
HP-UX	HP_MX52P02A.zip
AIX	AIX_MX52P02A.zip

2 Extract the file MX52P02A.bin to a temporary folder on the PC.

3 FTP the file MX52P02A.bin in binary mode from the PC to the application server.

4 Add execute permissions with the following command:

```
chmod +x MX52P02A.bin
```

5 Execute the update program: ./MX52P02A.bin -i console

6 Press **Enter**.

7 Enter the path of the directory to which the installation program will install the MAXIMO update.

NOTE The .log file created during the update process will be placed in this directory.

8 Press **Enter**. The Pre-Installation Summary appears.

9 Review the summary. If you want to change something on a previous step, type **back**. Press **Enter** to install the update.

The Installation Progress bar appears. When the installation process is complete, a configuration message will appear, then the Release Notes message appears.

10 Enter the number for your choice: (2 is selected by default)

   1 If you have read the Release Notes.

   2 If you have not read the Release Notes.

The message "Congratulations! AutoUpdate has been successfully installed." is displayed.

11 Press **Enter** to exit the installer.

Post-Installation Tasks

After you install the patch, complete the following tasks before restarting your MAXIMO Application server(s).

Delete Folders (WebSphere Users Only)

Delete all directories located in the **<WebSphere/AppServer/temp>** directory.

Manually Update JSP Files

If the jsp autoupdate program fails to install the jsp fixes due to customizations or for other reasons, the non-customized version of these files will be available under the appropriate folder in *<MAXIMO Root>*/**user_files/jsp** directory. Review the *<MAXIMO Root>*/**JspUpdate.log** log file to determine if the auto-update did not completely update the jsp files due to the customization. If the fix has not been implemented by the JspUpdate program, the JspUpdate.log file will contain a message that says **"NO MATCH FOUND"** for that fix. These customizations have not updated and will need to be manually re-implemented.

Note   Use the JspUpdate.xml file in conjunction with the log files to manually make updates that were not performed. If you use EAR files, you must rebuild and redeploy the EAR files as a result of this action. See "Build the EAR Files" on page B-32.

The list of files modified by the jspupdate.xml file for this Patch are in Appendix C: JSP Updates, on page 39.

Install the MEA Update

This step applies only to customers who are using the MAXIMO Enterprise Adapter (MEA) and *upgrading* from **Patch 01A**.

The MAXIMO Enterprise Adapter Installation Procedure must be completed before restarting your MAXIMO Application Server.

See Appendix A: Installing MAXIMO Enterprise Adapter, on page 27 for the steps to update your MAXIMO Enterprise Adapter.

Building and Deploying EAR Files

See Appendix B: How to Build the EAR Files, on page 31 for instructions on using EAR files.

Verifying the MEA Update

Connect to the database as the schema owner (i.e. default is MAXIMO) through an appropriate SQL utility and execute the following statement:

```
select * from maxvars where varname='MEAUPG'
```

The **varvalue** in the output should **= V520MEA-3**

ACTUATE REPORTS

MAXIMO Actuate Report users upgrading from the Patch 01A level must manually install two non-customizable common system jsp file fixes for issue 035351. These files are:

- <Maximo Home>\user_files\jsp\common\system**printacrobat.jsp**

- <Maximo Home>\user_files\jsp\common\system**printdocs.jsp**

For English Language Installations

1 Perform the normal installation procedure, which delivers the new files to the **<Maximo Home>\user_files\jsp\common\system** directory.

2 Backup <Maximo Home>\jsp\common\system\printacrobat.jsp and <Maximo Home>\jsp\common\system\printdocs.jsp

3 Copy <Maximo Home>\user_files\jsp\common\system\printacrobat.jsp to **<Maximo Home>\jsp\common\system\printacrobat.jsp**

4 Copy <Maximo Home>\user_files\jsp\common\system\printdocs.jsp to **<Maximo Home>\jsp\common\system\printdocs.jsp**

5 Re-build and re-deploy the **maximo.ear** file.

6 Restart the MAXIMOSERVER.

For Non-English Language Installations

The normal installation procedure delivers the English Language version of these files to the <Maximo Home>\user_files\jsp\common\system directory. You may want to compare these new files with those in the <Maximo Home>\ jsp\common\system directory before completing the following steps:

Editing the printdocs.jsp File

Make the following edits to the **printdocs.jsp** file located in <Maximo Home>\jsp\common\system\.

1 Backup <Maximo Home>\jsp\common\system\printdocs.jsp.

2 Open <Maximo Home>\jsp\common\system\printdocs.jsp.

3 Search for the following text: setTimeout("printCurDoc()",1000);

4 Replace the text with the following: setTimeout("printCurDoc()",2500);

5 Save <Maximo Home>\jsp\common\system\printdocs.jsp

Editing the printacrobat.jsp File

There are four distinct edits that you must make to the printacrobat.jsp located in <Maximo Home>\jsp\common\system\

1 Backup <Maximo Home>\jsp\common\system\printacrobat.jsp

2 Open <Maximo Home>\jsp\common\system\printacrobat.jsp

3 Perform the changes as follows:

  a Change 1 of 4:

  • **Search for the following text:** String documentName = (String)printList.elementAt(Integer.parseInt(request.getParameter("v ectorindex")));

  • **Immediately below this line, ADD the following lines of text:**

```
int eof = documentName.length();

String whereclause =
documentName.substring(((documentName.indexOf("&where="))+7),eof);
```

  b Change 2 of 4:

  • **Search for the following text:** siteCookie = siteCookie + "mroWhere=" + "<%=mroCurrent%>" + "||ReportPath=" + escape("<%=path%>") + "||folder=" + "<%=folder%>" + "|| folderRedirect=" + "<%=folderRedirect%>" + "||";

  • **Replace the text with the following:** siteCookie = siteCookie + "mroWhere=" + "<%=whereclause%>" + "||ReportPath=" + escape("<%=path%>") + "||folder=" + "<%=folder%>" + "|| folderRedirect=" + "<%=folderRedirect%>" + "||";

  c Change 3 of 4:

  • **Search for the following text:** document.runReportForm.submit();

  • **Replace the text with:** doPrint();

d Change 4 of 4:

- **Search for the following text:** setTimeout("setPrintStatus(1)", 2000);

- **Replace the text with**:

```
document.runReportForm.submit();

var flag = '<%=session.getValue("firstime")%>';

if (flag=='null')

{

  //add time when report gets launched for the first time

  setTimeout("setPrintStatus(1)",2000);

  <%session.putValue("firstime","false");%>

}

else

{

setPrintStatus(1);

}
```

4 Re-build and re-deploy the **maximo.ear** file.

5 Restart the MAXIMOSERVER.

INSTALLING THE MAXIMO ENTERPRISE ADAPTER

You must first determine Your Currently Installed mxIntegration Version

1 Open the webMethods B2B server.

2 From the Packages menu section, select Management.

3 Click on the mxIntegration package name in the Package List to display package information and patch history for mxIntegration.

4 Refer to the Patch History section. Entries in the Patch History section correspond to mxIntegration version filenames as shown in the following table.

Patch History			
Name	Version	Created on	Description
mxIntegration	1.0	2004-05-06 14:48:00 EDT	084

webMethods mxIntegration Package Updates

The MX52P02A.exe distributes the following .zip files, which pertain to the mxIntegration package (included with the MEA as part of the webMethods installation).

mxIntegration.zip

mxIntegration-REV049.zip (Revision 5.2.049) **(Patch 01 / 01A)**

mxIntegration-REV150.zip (Revision 5.2.150) **(Patch 02 / 02A)**

If you installed mxIntegration-REV049, you do not need to apply mxIntegration-REV049.zip or earlier. Apply only the later packages.

If you have applied any of these versions of the mxIntegration program fix during a previous update, you need only apply the later version(s).

If you have not applied any of these versions of the mxIntegration program fix, apply them in the order listed in the following example. Revision numbers are indicated at the end of each .zip file name.

If you have already applied mxIntegration.zip, it is not necessary to reapply it. If you have not applied these files, do so in the following order:

a mxIntegration-REV049.zip

b mxIntegration-REV150.zip

If you have made any customizations to your mxIntegration package, check the **mxIntegration-REV150.zip** file to see if any files contained in this package will overwrite your customizations. If so, you must reapply your customizations after applying all mxIntegration ZIP files as listed above.

Installing the webMethods Package Files

To apply the webMethods .zip file(s) complete the following steps:

1 Copy the **mxIntegration-REV150.zip** file from the mxintegration folder (default path
<MAXIMO root>\wm\mxIntegration)
to the \replicate\inbound folder of the MAXIMO B2B Server (default path\webMethods\IntegrationServer4\replicate\inbound).

2 Install the inbound mxIntegration-150 package.

a From the Integration Server Packagaes >> Management page, select **Install Inbound Releases**.

b Select **mxIntegration-REV150.zip** from the **Inbound Release** drop-down list.

c Click **Install Release**.

Note   Ensure that the Activate upon installation box is checked.

Refer to the *MAXIMO Enterprise Adapter Installation Guide* for further details.

3 Once the package is successfully installed, reload the mxIntegration package.

4 After reloading, click on the package name from the packages list to see a revision history describing the details of the program fix applied.

HOW TO BUILD THE EAR FILES

This appendix describes the steps you perform to build enterprise application archive files (EAR). In brief, you perform the following steps:

Before you proceed with this chapter, ensure that your browser can make an active connection to the Internet. Otherwise, please refer to the Security Issues Appendix in the MAXMIO Installation Guide.

To validate the XML pages, the build process makes a clear (i.e. no proxy) http connection to the following Sun Microsystems URLs:

http://java.sun.com/j2ee/dtds/application_1_2.dtd
http://java.sun.com/j2ee/dtds/web-app_2_2.dtd

Before executing the batch files the existing files that appear in the build folder under your MAXIMO root installation folder must be deleted.

The following table is a listing of all the files that reside in the build folder:

Table 1: Contents of the build folder

Application Name	Contents
MAXIMO	maximo.ear
	dynamic.jar
	inet.jar
	maximoui.war
	mbo.jar
	mbo.war
MAXIMO Help	maximohelp.ear
	maximohelp.war
Actuate	actuate.ear
	actuate.war
Acweb	acweb.ear
	acweb.war
Acadmin	acadmin.ear
	acadmin.war

Delete the Existing EAR Files

You must first delete any existing EAR files before re-building them.

1 Using Windows Explorer, navigate to the \build folder under root MAXIMO installation directory.

For example: C:\MAXIMO\build.

2 Select and delete the appropriate EAR file and its accompanying files.

For example, to re-build the MAXIMO application, delete the following:

maximo.ear, dynamic.jar, inet.jar, maximoui.war, mbo.jar, mbo.war.

Build the EAR Files

There are five EAR files that you may have to re-build and deploy. These EAR files are listed in the table below:

Table 2: Listing of EAR Files

Windows	UNIX
buildear.bat	buildear.sh
buildhelpear.bat	buildhelpear.sh
buildactuateear.bat	buildactuateear.sh
buildacadminear.bat	buildacadminear.sh
buildacwebear.bat	buildacwebear.sh

The following sections describe how to build the Ear files and when you may need to build them.

Build the MAXIMO EAR File

To build the MAXIMO EAR file, perform the following steps:

1 Remove the maximo.ear, dynamic.jar, inet.jar, maximoui.war, mbo.jar, and mbo.war files from the build folder.

2 Open a Command Prompt (Windows) or terminal window (UNIX).

3 Change directory to your *<MAXIMO root>* directory, for example: C:\ MAXIMO (Windows) or /mxadmin/MAXIMO (UNIX).

(UNIX Users Only) All the shell files must have executable permissions, to ensure that all the files have executable permissions, run the command chmod +x build*.sh in the MAXIMO root folder.

4 Type **buildear.bat** (Windows) or ./**buildear.sh** (UNIX) and press **Enter**.

Running this command may take several minutes. The command prompt or terminal window then displays a BUILD SUCCESSFUL line. The script file creates a **maximo.ear** file (and associated JAR and WAR files) in the **build** subdirectory of the *<MAXIMO root>* directory.

You *must* re-build and re-deploy MAXIMO EAR files whenever changes are made to any of the files located in the <*MAXIMO root*> directory (except Help files, for which there is a separate build file). For example, whenever you modify JSP files in customizing your screens, you must rebuild the maximo.ear file.

Build MAXIMO Help EAR Files

To build the MAXIMOHELP EAR file, perform the following steps:

1 Remove the maximohelp.ear and maximohelp.war files from the build folder.

2 Open a Command Prompt (Windows) or terminal window (UNIX).

3 Change directory to your <*MAXIMO root*> directory, for example: C:\ MAXIMO (Windows) or /mxadmin/MAXIMO (UNIX)

4 Type **buildhelpear.bat** (Windows) or ./**buildhelpear.sh** (UNIX) and press **Enter**.

Running this file may take several minutes. The command prompt or terminal window then displays a BUILD SUCCESSFUL line. The script file creates a **maximohelp.ear** file (and associated WAR file) in the **build** subdirectory of the <*MAXIMO root*> directory.

You **must** rebuild and re-deploy the **maximohelp.ear** file whenever you make changes to any of the MAXIMO Help files in the jsp\help subdirectory of the <*MAXIMO root*> directory.

Build Actuate EAR File

To build the Actuate EAR file, perform the following steps:

1 Remove the actuate.ear file from the build folder.

2 Open a Command Prompt (Windows) or terminal window (UNIX).

3 Change directory to your <*MAXIMO root*> directory, for example: C:\ MAXIMO (Windows) or /mxadmin/MAXIMO (UNIX)

4 Type buildactuateear.bat (Windows) or ./buildactuateear.sh (UNIX) and press Enter.

Running this file may take several minutes. The command prompt or terminal window then displays a BUILD SUCCESSFUL line. The script file creates a **Actuate.ear** file (and associated WAR file) in the **build** subdirectory of the <*MAXIMO root*> directory.

You **must** rebuild and re-deploy the **Actuate.ear** file whenever you make changes to the look-and-feel of the reporting screens in MAXIMO (for example, changes in .gifs, html etc).

Build Acadmin EAR File

To build the acadmin EAR file, perform the following steps:

1 Remove the acadmin.ear and acadmin.war files from the build folder.

2 Open a Command Prompt (Windows) or terminal window (UNIX).

3 Change directory to your *<MAXIMO root>* directory, for example: C:\ MAXIMO (Windows) or /mxadmin/MAXIMO (UNIX)

4 Type buildacadminear.bat (Windows) or./buildacadminear.sh (UNIX) and press Enter.

Running this file may take several minutes. The command prompt or terminal window then displays a BUILD SUCCESSFUL line.

The script file creates an **acadmin.ear** file (and associated JAR and WAR files) in the **build** subdirectory of the *<MAXIMO root>* directory.

You ***must*** build and deploy a new **acadmin.ear** file whenever you changes to the address of the iServer /mgmtconsoli server.

Build Acweb EAR File

To build the acweb EAR file, perform the following steps:

1 Remove the acweb.ear and acweb.war files from the build folder.

2 Open a Command Prompt (Windows) or terminal window (UNIX).

3 Change directory to your *<MAXIMO root>* directory, for example: C:\ MAXIMO (Windows) or /mxadmin/MAXIMO (UNIX)

4 Type buildacwebear.bat (Windows) or./buildacwebear.sh (UNIX) and press Enter.

Running this file may take several minutes. The command prompt or terminal window then displays a BUILD SUCCESSFUL line.

The script file creates an **acweb.ear** file (and associated JAR and WAR files) in the **build** subdirectory of the *<MAXIMO root>* directory.

You ***must*** build and deploy a new **acweb.ear** file whenever you changes to reports or changes to the web.xml that contains info about the report server and so forth.

Removing EAR Files from an Application Server – IBM WebSphere 4.0.4

Before redeploying a *new* EAR file into an *existing* Application Server you must remove the web module. Perform the following steps:

1 Verify that the Admin Server is already running.

2 Start the Administrative Console.

3 Expand the tree in the left pane so you can see the Nodes, Application Servers, and Enterprise Applications links and the units under them.

4 Right-click on the relevant Application Server, for example MAXIMOSERVER, and choose **Stop**.

5 You will be prompted with a message box saying MAXIMO application server is stopped, click on the OK button.

6 Under the Enterprise Applications link, right-click the enterprise application for which you are going to deploy a new EAR file (for example, MAXIMO), and choose **Remove**.

7 Click **No** in the confirmation dialog box.

8 Click **Yes** to remove all files. This may take a few minutes.

9 Click **OK** after the files are removed successfully.

10 Continue with the next section.

Deploying EAR Files – IBM WebSphere 4.0.4

You deploy the EAR files via the IBM WebSphere Console. MRO software recommends that you deploy the maximo.ear file last. Begin with maximohelp.ear and repeat the relevant and similar steps to deploy the remaining four EAR files:

· actuate.ear

· acweb.ear

· acadmin.ear

· maximo.ear

1 Start the WebSphere Administrator's Console from the windows Start menu: Start > Programs > IBM WebSphere > Application Server V4.0 AE > **Administrator's Consol**e.
It may take several seconds for the Administrator's Console to appear.

2 Expand WebSphere Administrative Domain > Nodes ><*host_computer_nam*e> > **Application Server**s.

3 Make sure that MAXIMOSERVER is not running, (indicated by a red x). If it is running (indicated by a green arrow/icon), right-click

MAXIMOSERVER. Click **Stop**. The **Command "MAXIMOSERVER.stop" completed successfully** information dialog box opens

4 Click **OK**. The Information box closes.

5 From the navigation pane of the WebSphere Advanced Administrative Console, right-click the **Enterprise Application**s.

6 Click **Install Enterprise Application**s. The Install Enterprise Application Wizard opens **Specifying the Application Module** dialog box.

7 Select the **Install Application (*.ear)** option. Complete the following fields:

  a Path – Browse to <*maximo home*>\build\maximohelp.ear and click **Open**.

  b Application Name – type **MAXIMOHELP**.

  c Click **Next**. This may take several minutes as the EAR file contents are examined and verified by the console.

8 Click the **Next** button seven times until the **Selecting Virtual Hosts for Web Modules** window opens.

9 Highlight both maximoui.war and mbo.war files and click Select Virtual Host.

10 From the drop-down list select **MAXIMOSERVER_host** and click **OK**.

11 Click **Next**.

12 From the Selecting Application Servers window, select **maximohelp.war**, then click **Select Server**.

13 From the Select a Server or Server Group dialog box, select **MAXIMOSERVER<*your computer name*>**, then click **OK**.

14 Click **Next**. Completing the Application Installation Wizard opens.

Click **Finish** to install the maximo.ear module. This may take several minutes.
An Information dialog box opens:
Command "EnterpriseApp.install" completed successfully.

15 Click **OK**. The Information box closes.
You have successfully installed the MAXIMOHELP enterprise application.

16 Repeat Steps 5 through 17 for the remaining four EAR files: As you complete Step 7 for each EAR file, rename the application as follows:

Table 3:

EAR Files	Application Name
actuate.ear	ACTUATE
acweb.ear	ACWEB
acadmin.ear	ACADMIN
maximo.ear	MAXIMO

Regenerating Web Server Plug-in Information

You must now regenerate the Web Server plug-in information in the <*WebSphereRoot*>\config\plugin-cfg.xml file.

1 From the WebSphere Advanced Administrative Console, expand WebSphere Administrative Domain > **Nodes** in the tree view.

2 Right-click your host name from the Nodes branch and choose **Regen Webserver Plug-in**.

3 Check the Administrative Console Event Messages located at the bottom of the console window for a successful Plugin regeneration message.

Deploying EAR Files – BEA WebLogic 7.0

To deploy the EAR files, complete the following steps:

1 From the Start menu select: Programs >> BEA WebLogic Platform 7.0 >> WebLogic Server 7.0 >> Server Tour and Examples >> **Start Admin Consol**e.

Alternatively, you can start the Admin Console by typing the following URL in your browser's address bar: http://<*host nam*e>:7001/console

2 Type in your Username and Password.

3 Click **Applications** (under Deployments) and the **mydomain>Applications** page opens.

4 Click Configure a new Application from the main page and the Locate Application or Components to Configure page opens.

5 Click **C:** or your root MAXIMO installation directory. WebLogic displays folders on your root directory on the page .

6 Click your MAXIMO root installation folder (in this example: c:\ MAXIMO).

7 Click and open the **build** folder. Note the EAR files that reside in the build folder:

- acadmin.ear
- Actuate.ear
- acweb.ear
- maximo.ear
- maximohelp.ear

8 Click [select] next to the **maximohelp.ear** file. The Configure Application or Component page opens.

9 Select **MAXIMOSERVER** from the Available Servers column.

10 Using the arrow button, move it to the **Target Server**.

11 Accept the default name maximohelp in the Step 4 text box inside the page or type another name for the maximohelp.ear application.

12 Click Configure and Deploy.

You must wait for the deploy activity to complete. During this time after you click Configure and Deploy, the page displaying in your browser refreshes every few seconds.
Ensure that the *Status* of your Deployment Activity is *Complete*d, before you continue.

13 Repeat Steps 4 through 12 for the remaining four EAR files and Accept the default name for each application as it appears in the Step 4 of the Configure Component or Application page in your browser.

- Actuate.ear
- acweb.ear
- acadmin.ear
- maximo.ear

JSP UPDATES

If you are upgrading from Patch Level 01A, please note that the following is a list of files that are updated in MAXIMO 5.2 Patch 02A by the jspupdate program.

Table 1: List of Updated MAXIMO 5.2 Patch 02A

Issue Number	Revision Number	File Name
035256CR	64	jsp\app\wotrack\actuals.jsp

The MAXIMO 5.2 Patch 02A installation program installs three files to the MAXIMO root folder that play an important role in the autoupdate process. These files are: **jspupdate.xml**, **jsp.properties**, and **jspupdate.log** file.

The **jspupdate.xml** file contains the updates addressed by issue number 035256. The file also includes modifications from prior patches. You can view the changes that pertain to this update by searching for the tag: **<mxversion id="REVISION *revision_number*">** in the jspupdate.xml file. The revision_number is listed in the table above.

The **jsp.properties** file holds the revision number. This number is the last revision handled by the jspupdate program. This revision number is revised every time the jspupdate completes the update process.

The **jspupdate.log** file is a log file created by the jspupdate program. Each attempt by the jspupdate.xml to modify a file is logged in this file. Users inspect this file at the end of the install process to identify failures of the jspupdate program.

Understanding The Autoupdate Process

The following is an overview of the sequence of events that take place during the autoupdate process.

The jspupdate.xml file verifies the current revision number in the jsp.properties file. For example, the revision number in your jsp.properties file after installing Patch 01 or 01A is **49.0** and the revision number in your jsp.properties after installing Patch 02A is **64.0**.

If the current revision number in the jsp.properties is less than the revision number for the patch, the jspupdate program runs the jspupdate.xml. For example: the current revision number may be 49.0, which is less than the revision number 64.0.

The jspupdate program will run through each revision since the last revision number, and attempt to modify files with the changes. This update process uses a simple search and replace function in files to be modified to perform the changes. The jspupdate.xml will succeed only on exact matches within the file being modified. If the search function fails to find the segment to be modified, the update will fail.

All attempts by the jspupdate.xml to modify a file, are logged in the jspupdate.log file. Whenever a change is performed successfully, a note that says "MATCH FOUND", the file name, and a brief note on the change are written to the jspupdate.log file.

When the update fails, a note that says "NO MATCH FOUND", the file being modified, and brief details on the change that was attempted are written to the jspupdate.log file.

Once all revisions specified in the jspupdate.xml have run, the update process stops. The jspupdate program updates the revision number in the jsp.properties file to the last revision number handled.

Upon completion of the install, you must verify the jspupdate.log file and identify all entries that have a "NO MATCH FOUND" message. A "NO MATCH FOUND" message indicates that the change failed, or that the change is already applied to the file being modified. The jspupdate.log will specify the file that the change was attempted for, and the change number (for example, change 3 of 7) where applicable. You must investigate the reasons why the change failed. If the change failed due to customizations to the file being modified, you must manually implement the changes. You can determine the change being performed by:

· Look in the **<MAXIMORoot>\user_files** for the appropriate backup version of the fixed file. For example the backup version of the file *actuals.jsp* is available in the folder:
   <MAXIMORoot>\user_files*jsp\app\wotrack\actuals.jsp*

· Examining the jspupdate.xml file for the changes being made.

If you are unable to determine the change performed by the jspupdate, or unable to determine why the jspupdate failed, please contact MRO Support.

MAXIMO 5.2 PATCH 02A FIXED ISSUES

The following is a listing of all fixed issues in MAXIMO 5.2 Patch 02A.

Application: Asset Catalog

Issue	Description
62505	When there are a large number of equipment records, user experiences unsatisfactory performance using the Asset Catalog search.

Application: Assignment Manager

Issue	Description
13528	Started assignments are not included in calculations for both the grid of available hours and the percent allocated column.
62197	Assignments cannot be scheduled or started if the ASSIGNMENT.ASSIGNMENTID value is greater than 999.

Application: Crafts

Issue	Description
13027	When labor is associated with a craft, the pay rate from the craft record overwrites the pay rate for the labor record.

Application: Desktop Requisitions

Issue	Description
035159	Quantity and unit costs fields are cleared when the service checkbox is selected.
035237	When an item number is entered, then cleared during line entry, a record for the item is created in the INVRESERVE table.
035517	Error message "Field Description is read only" is displayed when desktop requisition with items is duplicated.
035415	"Item number is not valid" is displayed when a storeroom is entered and an item is selected from a select value option.
035457	When a desktop requisition is submitted, the line number order on the purchase requisition or purchase order is different from the order on the desktop requisition.
62135	When a desktop requisition is approved, the order units on purchase requisition lines created by this action are not populated with the order units from the desktop requisition lines.
63373, 63592	When an original requisition is saved as a template requisition, MAXIMO does not distribute the costs for the template to the appropriate GL debit account.
64137	Error message "Required field From SiteID is blank" is displayed in Desktop Requisitions when users attempt to receive a PO created from a PR that was generated from a desktop requisition.
64138	Template requisitions cannot be created from draft requisitions having multiple lines where the cost is distributed on some but not all lines.

Application: Equipment

Issue	Description
034837	When equipment is moved, its change (move) date overwrites the modification date.
034856	Non-rotating equipment records can be associated with labor locations.
035141	In Equipment, unable to delete equipment if the same equipment number is linked to other records across sites.
041079	When moving rotating equipment to a storeroom, the EQTRANS.MATRECTRANSID is not populated.
041104	When there are a large number of equipment records in the database, choosing the Move Equipment action in Work order tracking Application causes the server to crash.
041335	The Specification Template description can be edited from the Equipment Application.
62175	When moving equipment to a different location and manually entering a different GL Credit account, changes made to the GL Credit Account are not saved.

Application: Inventory

Issue	Description
041029	In Inventory, after setting the Recent Lead Time Weight in %, the Inventory lead time calculation does not update Lead times for items received.
034297	Inventory action Transfer Current Item does not carry over the standard or average costs for an item to the new location.
035235	Average cost is not calculated correctly during an inventory Action of Transfer Current Item when multiple bins exist.
035278	A record is not written to the INVTRANS table when a new bin with a balance is created.
035314	When rotating equipment is moved from a non-inventory to a storeroom location, the average cost is not updated.

035414	When a new balance row is created for a lotted item, lots previously specified for the item are not available in the lot value selection list.
61427	In Inventory, unable to run a reorder for an item that belong to multiple sites, and an unreceived PO exists in one of the sites for the item.
60793	When Inventory Reorder generates purchase orders, the purchase order description is null.
64739	In Inventory, received but unapproved items are not taken into account during the reorder process.
62065	Transfer out transactions are not displayed on the Receipts and Transfers tab accessed by action View Inventory Transactions.

Application: Invissue

Issue	Description
035204	When hidden fields are made visible and data was previously entered in these fields via the Issues tab, the data in these fields is not displayed when the items are selected for return.
041001	When multiple lines for the same item are issued at the same time, the average cost is not calculated correctly.
041062	In Issues & Transfer, it is not possible to return an item to a bin created after the issuing bin has been deleted.
63410	When previously issued rotating equipment is returned to a storeroom and the unit cost on the return is identical to the unit cost on the issue, the inventory average cost is reduced.

Application: Invoice

Issue	Description
034819	When an invoice is approved for a purchase order with multiple service and item lines for the same workorder, a message displays "Record updated by another user. Refetch and try again."
035459	Negative receipt purchase order lines are not copied using invoice application's copy purchase order line.
035528	In Invoice, unable to change invoice status to APPR due to unexpected error
041091	In Invoice, unable to create an invoice using MEA when any of the invoice lines reference a Workorder in a CLOSED status.
60741	Invoices cannot be approved when invoice variance is added and service lines are allocated.
61704	INVOICE.ICT1 is mapping to crossover field MATRECTRANS.IT1 instead of MATRECTRANS.ITIN1.

Application: Item Master

Issue	Description
034094, 034423	Item/Location/Equipment descriptions generated from an asset specification template contain duplicate sets of text, causing an error message to display indicating the description field length is exceeded.
034865	Non-rotating items can be changed to rotating when a user is logged into a site which does not have an inventory balance for the item yet an inventory balance does exist for the item in another site within the same organization.
034884	Asset catalog search returns only the first 100 rows of a result set.
035062	Items cannot be deleted if they at some point had been associated with an item assembly structure.
62215	When an item has a specification with populated domain values, the domain values are not duplicated when the item is duplicated.

62501	When attributes are edited for one rotating item, the attributes for equipment referencing other items sharing the same class/subclass are also updated. Additionally, only the changed attribute value is retained in the equipment description.

Application: Job Plans

Issue	Description
63806	When the Materials tab has an item with Direct Issue flagged and the item is changed, the Storeroom for the new item is correctly populated but the Vendor and Direct Issue flag from the original item are not blanked out.

Application: Labor Reporting

Issue	Description
61472	In Labor Reporting, NON-WORK type hours are being charged against a work order specified in the Default Daily Time section.
62273	Error message displays "Regular hours plus overtime hours exceed duration between start and finish times" when user enters daily time hours of 12:30 or more and any value in the overtime hours field.
62328	Labor records cannot be approved when they reference a purchase order having a synonym APPR status.

Application: Locations

Issue	Description
034493	A child location is added to the root of a network system when the association with between the child and its parent is removed.
041109	In Locations, after changing the parent of a location, user is unable to move location back to the original parent.
041334	In the Locations Application, users with user restrictions are able to view restricted locations in the drilldown.
61577	When new operating locations are created, the location status is not saved.
61229	When GL account validation is disabled and a couple of characters are entered in the GL account field, an error message displays value specified exceeds maximum field length.

Application: MEA

Issue	Description
13368	In MEA, sending a Blanket release PO to MAXIMO fails with error "purchase order type is not valid".
13698	Do not mark the mboset as read-only while fetching data.
035435	For transactions that are written to a file in B2B, save the sequence number used to generate the file names in a file "sequence.txt" in mxintegration folder in order to guarantee unique file names
041100	In MEA, the MEA queue hangs on a high volume of transactions or when current transaction takes a long time to process.
041101	TIn MEA, on cancellation or closure of a Workorder, reservation deletes are being sent out of order.
61637	In MEA, the project related columns are not populated in the MOUT_GL_INTERFACE.

61740	In MEA, the MoutRCVProcess does not allow receipt transactions with issuetype other than RECEIPT to be sent to the external system.
62116	In MEA, a performance issue delays an issue transaction reaching the matusetrans and mout_gl_interface.
63121	Material receipts from an external application cannot be created through MEA transactions when the purchase order is in a PRINT status.

Application: Multi-site Setup

Issue	Description
61958	Unable to access Multi-site setup when MAXIMOServer is running as a windows service.

Application: Preventive Maintenance

Issue	Description
034813	If a work order is closed and the Use Target Start Date is set to 'N", the Next Due Date does not get updated.
035298	The values are not reset if the Adjust Next Due Date field is checked when generating a work order from a PM that has an extended date.
035425	when generating a work order from Preventive Manitenance an error occurs, "Required Field Measurement Value is Blank".
61735	When PM records are associated with a Master PM, the description on the associated PM records is not updated from the description of the Master PM.
64332	When a preventive maintenance record references an equipment record with meter readings and the Adjust Next Due Date is selected, the Action --> Generate Work Orders results in a process that cannot be canceled and the creation of countless work orders.

Application: Purchase Orders

Issue	Description
4663	Items with different conversion factors are not transferring correct quantities between storerooms.
034306	When an internal purchase order has an item with a conversion factor, the quantity of the supplying storeroom is decremented by the conversion factor of the receiving storeroom.
034662	The reserved amount and available quantity are not calculated properly on internal purchase orders having items with conversion factors.
034796	After an invoice has been approved the Received Line Cost is not getting populated on the purchase order.
034891	When the work order is entered before the unit cost on the purchase order line, the Estimated Service Cost is calculated in correctly.
034902	When duplicating a tax code that has different effective dates, the tax code with the new date is not being used.
034939	Users are allowed to create blanket releases on a purchase order that exceeds their purchase limits.
035416	If a purchase order is in the synonym status of WAPPR, a poline can not be deleted.
035512	In Purchase Orders, on changing the line number of the purchase order, the corresponding line number on the purchase requisition is not updated.
035549	In Purchase Orders, unable to set a user defined PO Number on a blank release PO.
041070	In Purchase Orders, unable to change status of PO to APPR where a distributed cost for the PO line has an empty GL account.
041349	The Committed Release value displayed via Action à View Blanket PO is reset to zero when the blanket release purchase order is closed.
62029	When an item for a purchase order line is selected via the Vendor Items button and the user manually changes the unit cost to a new value, the unit cost reverts back to the unit cost from the Vendor Items when the Save button is clicked.
60783	When purchase order items are received and returned, and the purchase order is changed to an unapproved status, the purchase order line GL account field should be editable but it is read only.

62181	When a site has no default Ship To information and a blanket release purchase order is created, the Ship To information on the original blanket purchase order is removed.
62258	In Purchase orders, when using the Filter to search for a PO Line and changing the quantity on the search result, the changes are not saved.
62267	When a vendor has data entered in the freight terms long description and a purchase order to the vendor is created, the freight terms long description on the purchase order is not populated with the vendor's freight terms long description.
64135	If a blanket purchase order has blanket releases for different sites, it is possible to approve a release when its total cost would cause the blanket purchase order's total cost to be exceeded.
13262	For environments where MultiSite PO Options specify PR/RFQ lines should be closed when all PR/RFQ lines have been copied to POs, the PR was not changed to a closed status when users selected the action "Copy PR Line Items to PO" in the PO application.
63079	Maximo allows approval of a Release purchase order even when the total release costs exceed the Blanket purchase order's total cost.
63435	An exception is thrown when users select action View Blanket PO.

Application: MAXIMO Project

Issue	Description
68395	Error message "Runtime Error 91 Object Variable or With Block Variable not set" is displayed when users attempt to login to MAXIMO Project after having installed MAXIMO 5.2 Patch 02.

Application: Purchase Requisitions

Issue	Description
035434	INVVENDOR.LASTCOST is used instead of INVVENDOR.BIDPRICE even when bid prices exist and the vendor, manufacturer, catalog number and model number entered on the purchase requisition line match corresponding columns in the INVVENDOR table.
035485	When the Select Action --> Create PO, Autonumber feature is used, the PO number generated from the PO number seed is incremented by 2 rather than by 1.
041141	A purchase requisition can be cancelled when a there is a line attached to a purchase order.
61305	In Purchase Requistions,incorrect PO Number & PO Lines are displayed in the PR Lines screen when generating PO's from RFQ's with PR lines copied over.
62423	When the vendor is changed on a purchase requisition having an item for which there are multiple price agreements, the Agreement PO is not updated with the agreement purchase order number associated with the new vendor.
62972	In Purchase Requisitions, error "cannot insert duplicate key rows in object PRCOST with unique index prcost_ndx1" is displayed.
041308	Purchase orders can be created from a purchase requisition even when the lines were already awarded to a vendor in a RFQ.
62815	When a PR line is entered for an item that has a Price Agreement PO and the vendor on the PO has a different currency, the PR line's unit cost is in the base currency rather than the vendor's currency.

Application: Receiving

Issue	Description
034530	INVTRANS.LINECOST column should record the difference of the receipt total cost and the total cost of the receipt quantity multiplied by the inventory's standard cost.
034690	Expiration date/shelf life/manufacturing lot num are not saved to InvLot table when the receipt requires inspection and the item is a lot-tracking item.

034806	If a direct issue item is ordered by a description rather than an item number and the item is returned, the Credit GL Account number on the workorder's Actuals tab, Materials subtab RETURN contains placeholders rather than appropriate GL component numbers.
035432	An exception occurs, indicating the maximum field length is exceeded for the GL Debit Account when the account number for a received item is fully defined (account number=field length).
035465	If a rotating item having an assembly structure with a child rotating item is received and the Apply Item Assembly Structure is selected with the Action --> Receive Rotating Item, the inventory balance for the child rotating item is incremented.
60749	When receiving rotating and non-rotating items requiring inspection, the Receipt Status on the non-rotating line is set to APPR when the rotating item is processed with the Action -> Receive Rotating Items.
62441	When the quantity of rotating items returned equals the quantity ordered and then the quantity returned is reduced via a manual adjustment, Action -> Receive Rotating Items lists the original ordered quantity to be received into the storeroom.
62492	When the FromSiteID field is made visible, the data stored is this field is inconsistently displayed.
62693	When items requiring inspection are returned before the receipt was marked for approval, the INVBALANCES.CURBAL is updated to reflect the return.
63594	POLINE.RECEIVEDUNITCOST is not set to zero when all items are returned in the receiving application.

Application: SYSTEM

Issue	Description
13144	A refresh session method is called each time a user returns to the start center.
034766	After the Long Description has been edited the Modified By field is not updated.
35563	When two thread are writing data, a Java Deadlock error occurs on Weblogic.
035449	When using Sun JVM, after selecting from a value list and tabbing to another field focus is lost.
62875	The subject line of email sent by Maximo is corrupted when it contains double-byte characters.

Application: WF-GENER

Issue	Description
61836	In Workflow, when an email notification contains a number greater than 10 million, the number is displayed in a scientific notation.
60720	In Workflow, when the client regional settings are different from MAXIMO server settings a not valid date time error is displayed on a custom action.
034392	In Workflow, launching attachments fail to bring up records when users are not in their default sites.
034700	In Workflow, the "Go To Application" lookup functions incorrectly when a workorder is in workflow.

Application: Wireless-Work

Issue	Description
041244	In Wireless Work Management, unable to add a 'RECEIVED' entry to the ASSTAT-ASSIGNED valuelist.

Application: Work Order Tracking

Issue	Description
11963	In Workorder tracking, the project lookup does not display projects that have the ISCHARGEABLE flag set to Y.
13826	Error message indicating an invalid date/time format is displayed when users click OK after selecting "Report Downtime" from the action menu and selecting the Non-operational radio button.
034818	The line cost on the labor subtab of the actuals tab is not recalculated when the hours are deleted.
034883	Time and Hours from the actuals tab is not being transferred to the main tab on the work order.
035097	When the default site of labor assigned to a workorder is not the same as the workorder site, an incorrect calendar is used.
035192	The field ACTLABHRS is updated incorrectly when the labor code is edited.
035256	Task long descriptions are not viewable or editable on approved work orders.
035300	Deselecting "Charge to store" on a workorder does not change the GL number back to the location GL number if the workorder was saved.
035351	When Action -> Print with Attachments is selected for multiple work orders in the search results page, the first work order is printed repeatedly and the subsequent work orders are not printed.
035423	When a status is changed on one work order that was part of a query result and this work order is the only one selected, all work orders are updated with a status change.
035458	When an equipment status is changed from down to up, the Changeby field for the record containing the original up to down status is overwritten with the user recording the down to up status.
041015	The server crashes when a user cancels from a popup (date lookup, value list) in the search page.
60715	In Workorder tracking, cannot cancel a Workorder if the offsetting hours are not whole numbers.
035446	In Workorder tracking, the planned labor select value list is empty for Assignments.
61915	Server crashes when users change the status for multiple workorders listed on the results page, then immediately select the new workorder icon from the tool bar.

MAXIMO 5.2 PATCH 02A FILE MANIFEST

Name	Path	Modified	Size
actuals.jsp	user_files\jsp\app\wotrack\	12/30/2003	14,715
AssignLabor.class	psdi\app\workorder\virtual\	12/23/2003	1,938
AssignLaborSet.class	psdi\app\workorder\virtual\	12/23/2003	5,305
AssignmentSet.class	psdi\app\workorder\	3/12/2004	14,516
AssignmntParty.class	psdi\app\laborgroup\	12/23/2003	3,719
AvailCalc.class	psdi\app\common\	12/23/2003	7,635
Calendar.class	psdi\app\calendar\	12/23/2003	9,955
CommonActions.class	psdi\jsp\common\	8/9/2004	25,747
CreateBlkRelHandler.class	psdi\jsp\app\po\	4/22/2004	3,227
DrillDown.class	psdi\app\common\virtual\	6/11/2004	12,196
DrillDown_Skel.class	psdi\app\common\virtual\	9/9/2004	23,678
DrillDown_Stub.class	psdi\app\common\virtual\	9/9/2004	43,151
DynamicDataServlet.class	psdi\servlet\	5/3/2004	16,633
Equipment.class	psdi\app\equipment\	7/8/2004	44,941
Equipment_Skel.class	psdi\app\equipment\	9/9/2004	38,837
Equipment_Stub.class	psdi\app\equipment\	9/9/2004	71,052
EquipmentInputSet.class	psdi\app\inventory\virtual\	5/27/2004	5,935
EquipmentInputSet_Skel.class	psdi\app\inventory\virtual\	9/9/2004	39,339
EquipmentInputSet_Stub.class	psdi\app\inventory\virtual\	9/9/2004	73,380
EquipmentService.class	psdi\app\equipment\	3/8/2004	8,157
EquipmentSet.class	psdi\app\equipment\	7/28/2004	12,533
EquipmentSet_Skel.class	psdi\app\equipment\	9/9/2004	43,011
EquipmentSet_Stub.class	psdi\app\equipment\	9/9/2004	79,881
EquipmentSpecSet.class	psdi\app\equipment\	6/17/2004	1,863
EquipmentSpecSet_Skel.class	psdi\app\equipment\	9/9/2004	39,626
EquipmentSpecSet_Stub.class	psdi\app\equipment\	9/9/2004	73,643
FauxMboSet.class	psdi\mbo\	9/9/2004	21,790
FauxMboSet_Skel.class	psdi\mbo\	9/9/2004	38,589

FauxMboSet_Stub.class	psdi\mbo\	9/9/2004	71,678
FinancialService.class	psdi\app\financial\	6/10/2004	8,417
FinancialService_Skel.class	psdi\app\financial\	9/9/2004	10,344
FinancialService_Stub.class	psdi\app\financial\	9/9/2004	19,113
FldAssignLaborStartTime.class	psdi\app\labor\	12/23/2003	4,516
FldAssignRate.class	psdi\app\workorder\	2/12/2004	1,305
FldEqStatusChangeDate.class	psdi\app\equipment\	4/29/2004	3,324
FldInvBalancesLotNum.class	psdi\app\inventory\	6/7/2004	2,210
FldInvoiceCostWONum.class	psdi\app\invoice\	5/17/2004	2,928
FldJobMaterialItemNum.class	psdi\app\jobplan\	6/7/2004	1,224
FldLaborLaborcode.class	psdi\app\labor\	12/23/2003	3,591
FldLaborPercentAlloc.class	psdi\app\labor\	5/18/2004	2,681
FldLabTransLaborcode.class	psdi\app\labor\	6/29/2004	4,443
FldLabTransLineCost.class	psdi\app\labor\	6/29/2004	596
FldLabTransOTHrs.class	psdi\app\labor\	6/29/2004	933
FldLabTransRefWO.class	psdi\app\labor\	4/12/2004	2,735
FldLabTransRegularHrs.class	psdi\app\labor\	6/29/2004	960
FldLabTransType.class	psdi\app\labor\	4/12/2004	2,909
FldLocHierarchyNewParent.class	psdi\app\location\	6/15/2004	3,415
FldMatRecTransFromSiteId.class	psdi\app\inventory\	7/1/2004	4,123
FldMatRecTransToLot.class	psdi\app\inventory\	1/16/2004	2,045
FldMatRecTransWoNum.class	psdi\app\inventory\	5/17/2004	1,412
FldMatUseTransBinnum.class	psdi\app\inventory\	6/17/2004	1,473
FldMatUseTransWoNum.class	psdi\app\inventory\	5/17/2004	1,123
FldMRLineItemnum.class	psdi\app\mr\	1/15/2004	6,401
FldMRLineService.class	psdi\app\mr\	6/10/2004	1,125
FldPMAdjNextDue.class	psdi\app\pm\	12/9/2003	781
FldPMExtdate.class	psdi\app\pm\	12/9/2003	966
FldPMUseTargetDate.class	psdi\app\pm\	12/9/2003	1,398
FldPOLinePOLineNum.class	psdi\app\po\	2/12/2004	1,504
FldPurLineCost.class	psdi\app\common\purchasing\	1/27/2004	3,541
FldPurLoadedCost.class	psdi\app\common\purchasing\	1/27/2004	1,106
FldPurOrderQty.class	psdi\app\common\purchasing\	6/15/2004	2,436
FldPurVendor.class	psdi\app\common\purchasing\	6/10/2004	5,595
FldPurWonum.class	psdi\app\common\purchasing\	1/27/2004	435
FldWOFinControlID.class	psdi\app\workorder\	4/1/2004	1,827
FldWOFinControlProjectID.class	psdi\app\workorder\	4/1/2004	3,559
FldWOMeasureDate.class	psdi\app\workorder\	12/23/2003	1,608
FldWOMeasurementValue.class	psdi\app\workorder\	12/23/2003	1,664
FldWOPointNum.class	psdi\app\workorder\	12/23/2003	1,676
GLFormat.class	psdi\mbo\	5/17/2004	8,115
Header.class	psdi\jsp\common\	5/3/2004	2,757

InvBalances.class	psdi\app\inventory\	1/15/2004	12,187
Inventory.class	psdi\app\inventory\	1/16/2004	21,584
InventoryService.class	psdi\app\inventory\	5/18/2004	18,312
InventoryService_Skel.class	psdi\app\inventory\	9/9/2004	13,294
InventoryService_Stub.class	psdi\app\inventory\	9/9/2004	24,012
Invoice$MatchResult.class	psdi\app\invoice\	7/14/2004	1,038
Invoice$UninvoicedReceiptsInfo.class	psdi\app\invoice\	7/14/2004	6,835
Invoice.class	psdi\app\invoice\	7/14/2004	44,097
Invoice_Skel.class	psdi\app\invoice\	9/9/2004	42,808
Invoice_Stub.class	psdi\app\invoice\	9/9/2004	76,364
InvoiceCost.class	psdi\app\invoice\	5/6/2004	10,977
InvoiceLine.class	psdi\app\invoice\	7/14/2004	45,788
InvoiceLine_Skel.class	psdi\app\invoice\	9/9/2004	29,516
InvoiceLine_Stub.class	psdi\app\invoice\	9/9/2004	55,096
InvoiceService.class	psdi\app\invoice\	1/13/2004	5,914
Item.class	psdi\app\item\	7/8/2004	15,919
Item_Skel.class	psdi\app\item\	9/9/2004	28,362
Item_Stub.class	psdi\app\item\	9/9/2004	52,239
ItemSpec.class	psdi\app\item\	7/8/2004	5,839
ItemSpec_Skel.class	psdi\app\item\	9/9/2004	23,985
ItemSpec_Stub.class	psdi\app\item\	9/9/2004	43,770
ItemSpecSet.class	psdi\app\item\	7/8/2004	2,485
ItemSpecSet_Skel.class	psdi\app\item\	9/9/2004	39,606
ItemSpecSet_Stub.class	psdi\app\item\	9/9/2004	73,623
JavaScriptGenerator.class	psdi\jsp\beans\	3/1/2004	28,940
Labor.class	psdi\app\labor\	5/18/2004	13,107
Labor_Skel.class	psdi\app\labor\	9/9/2004	26,353
Labor_Stub.class	psdi\app\labor\	9/9/2004	48,761
LabTrans.class	psdi\app\labor\	6/29/2004	14,403
LabTrans_Skel.class	psdi\app\labor\	9/9/2004	23,812
LabTrans_Stub.class	psdi\app\labor\	9/9/2004	43,525
Location.class	psdi\app\location\	7/28/2004	30,684
Location_Skel.class	psdi\app\location\	9/9/2004	36,054
Location_Stub.class	psdi\app\location\	9/9/2004	67,923
LocationRemote.class	psdi\app\location\	7/28/2004	3,125
LocHierarchy.class	psdi\app\location\	1/13/2004	10,921
Login.class	psdi\jsp\common\	8/9/2004	6,998
LogStream.class	psdi\server\	2/19/2004	5,124
LongDesc.class	psdi\app\system\	4/30/2004	480
MatRecTrans.class	psdi\app\inventory\	7/28/2004	27,305
MatRecTrans_Skel.class	psdi\app\inventory\	9/9/2004	26,144
MatRecTrans_Stub.class	psdi\app\inventory\	9/9/2004	47,329

MatRecTransSet.class	psdi\app\inventory\	7/28/2004	20,667
MatRecTransSet_Skel.class	psdi\app\inventory\	9/9/2004	41,696
MatRecTransSet_Stub.class	psdi\app\inventory\	9/9/2004	77,584
MatUseTrans.class	psdi\app\inventory\	6/17/2004	22,397
MatUseTrans_Skel.class	psdi\app\inventory\	9/9/2004	27,043
MatUseTrans_Stub.class	psdi\app\inventory\	9/9/2004	49,523
MaxPOProcess.class	psdi\iface\app\po\	7/29/2004	15,770
MaxPOProcess_Skel.class	psdi\iface\app\po\	9/9/2004	7,559
MaxPOProcess_Stub.class	psdi\iface\app\po\	9/9/2004	14,464
MaxRCVProcess.class	psdi\iface\app\rcv\	5/19/2004	8,261
MaxRCVProcess_Skel.class	psdi\iface\app\rcv\	9/9/2004	7,563
MaxRCVProcess_Stub.class	psdi\iface\app\rcv\	9/9/2004	14,466
MaxSequenceProvider$MaxSeq.class	psdi\util\	6/15/2004	629
MaxSequenceProvider.class	psdi\util\	6/15/2004	6,638
Mbo$SubQueryFormatter.class	psdi\mbo\	9/9/2004	2,653
Mbo.class	psdi\mbo\	9/9/2004	35,994
Mbo_Skel.class	psdi\mbo\	9/9/2004	23,618
Mbo_Stub.class	psdi\mbo\	9/9/2004	43,044
MboSet$MboSetIterator.class	psdi\mbo\	9/9/2004	1,655
MboSet.class	psdi\mbo\	9/9/2004	66,353
MboSet_Skel.class	psdi\mbo\	9/9/2004	38,581
MboSet_Stub.class	psdi\mbo\	9/9/2004	71,643
MboSetRemote.class	psdi\mbo\	9/9/2004	5,551
MEAVersion.class	psdi\util\	6/21/2004	1,254
MicService$PollMaxInterdata.class	psdi\iface\mic\	5/27/2004	4,592
MicService$PollMaxInterdataBatch.class	psdi\iface\mic\	5/27/2004	4,658
MicService$PollMoutInterdata.class	psdi\iface\mic\	5/27/2004	3,918
MicService.class	psdi\iface\mic\	5/27/2004	39,741
MicSetOut.class	psdi\iface\mic\	12/23/2003	15,673
MonitorStream.class	psdi\server\	2/19/2004	5,424
MoutGLProcess.class	psdi\iface\app\gl\	4/20/2004	18,565
MoutRCVProcess.class	psdi\iface\app\rcv\	4/12/2004	6,882
MoutRSVProcess.class	psdi\iface\app\inventory\	1/27/2004	6,700
MoutWoProcess.class	psdi\iface\app\wo\	1/27/2004	6,580
MoveDetails.class	psdi\app\equipment\	7/28/2004	12,516
MR.class	psdi\app\mr\	6/4/2004	14,832
MR_Skel.class	psdi\app\mr\	9/9/2004	40,687
MR_Stub.class	psdi\app\mr\	9/9/2004	74,565
MRLine.class	psdi\app\mr\	6/3/2004	15,664
MRLine_Skel.class	psdi\app\mr\	9/9/2004	25,640
MRLine_Stub.class	psdi\app\mr\	9/9/2004	47,627
MRStatusHandler.class	psdi\app\mr\	12/5/2003	11,403

mxIntegration-REV150.zip	wm\mxIntegration\	9/9/2004	12,940
mxIntegration-REV49.zip	wm\mxIntegration\	1/16/2004	45,813
MXServer$CronTasks.class	psdi\server\	5/14/2004	1,327
MXServer$ErrLogStream.class	psdi\server\	5/14/2004	3,487
MXServer.class	psdi\server\	5/14/2004	25,352
MXServer_Skel.class	psdi\server\	9/9/2004	6,581
MXServer_Stub.class	psdi\server\	9/9/2004	12,825
Patch2A.txt		9/9/2004	0
PM.class	psdi\app\pm\	6/10/2004	31,087
PM_Skel.class	psdi\app\pm\	9/9/2004	28,777
PM_Stub.class	psdi\app\pm\	9/9/2004	53,487
PO.class	psdi\app\po\	6/11/2004	40,810
PO_Skel.class	psdi\app\po\	9/9/2004	44,227
PO_Stub.class	psdi\app\po\	9/9/2004	81,312
POLine.class	psdi\app\po\	6/10/2004	19,720
POLine_Skel.class	psdi\app\po\	9/9/2004	26,149
POLine_Stub.class	psdi\app\po\	9/9/2004	48,431
POLineSet.class	psdi\app\po\	1/27/2004	12,075
POService.class	psdi\app\po\	6/3/2004	23,821
POService_Skel.class	psdi\app\po\	9/9/2004	13,878
POService_Stub.class	psdi\app\po\	9/9/2004	24,977
POStatusHandler.class	psdi\app\po\	7/14/2004	19,921
PR.class	psdi\app\pr\	9/9/2004	18,033
PR_Skel.class	psdi\app\pr\	9/9/2004	40,189
PR_Stub.class	psdi\app\pr\	9/9/2004	72,508
printacrobat.jsp	user_files\jsp\common\system\	7/14/2004	10,544
printdocs.jsp	user_files\jsp\common\system\	5/27/2004	5,604
PRRemote.class	psdi\app\pr\	5/3/2004	1,114
PRStatusHandler.class	psdi\app\pr\	2/16/2004	10,735
PurchasingLineMbo.class	psdi\app\common\purchasing\	6/11/2004	7,678
PurchasingLineMbo_Skel.class	psdi\app\common\purchasing\	9/9/2004	24,659
PurchasingLineMbo_Stub.class	psdi\app\common\purchasing\	9/9/2004	45,259
ReceiptInputSet.class	psdi\app\po\virtual\	1/27/2004	9,955
ReceiptMbo.class	psdi\app\common\receipt\	7/14/2004	11,145
ReceiptMbo_Skel.class	psdi\app\common\receipt\	9/9/2004	25,445
ReceiptMbo_Stub.class	psdi\app\common\receipt\	9/9/2004	46,006
ReorderService$ReorderLockMonitor.class	psdi\app\inventory\	6/21/2004	2,574
ReorderService.class	psdi\app\inventory\	6/21/2004	32,309
ReorderService_Skel.class	psdi\app\inventory\	9/9/2004	12,480
ReorderService_Stub.class	psdi\app\inventory\	9/9/2004	22,489
ResultsBean.class	psdi\jsp\co...\assetcatalog\	12/23/2003	3,801
RFQVendor.class	psdi\app\rfq\	4/12/2004	8,126

rmiservice.exe		6/10/2004	35,328
ServRecTrans.class	psdi\app\labor\	6/10/2004	9,476
ServRecTrans_Skel.class	psdi\app\labor\	9/9/2004	26,285
ServRecTrans_Stub.class	psdi\app\labor\	9/9/2004	47,544
SpecificationMboSet.class	psdi\app\assetcatalog\	1/13/2004	1,735
SqlFormat.class	psdi\mbo\	4/22/2004	12,914
startCenterHandler.class	psdi\jsp\common\startcenters\	8/9/2004	3,639
TransferCurItemSet.class	psdi\app\inventory\virtual\	1/16/2004	3,162
Util.class	psdi\jsp\util\	8/9/2004	27,503
V520MEA_3.class	script\	6/1/2004	2,670
Version.class	psdi\util\	6/21/2004	1,227
WFHelpHandler.class	psdi\jsp\common\workflow\	4/12/2004	2,288
WMAssignmentSet.class	psdi\app\workorder\	5/18/2004	5,857
WMAssignmentSet_Skel.class	psdi\app\workorder\	9/9/2004	40,518
WMAssignmentSet_Stub.class	psdi\app\workorder\	9/9/2004	75,430
WO$compareJPTask.class	psdi\app\workorder\	7/14/2004	932
WO.class	psdi\app\workorder\	7/14/2004	56,368
WO_Skel.class	psdi\app\workorder\	9/9/2004	51,017
WO_Stub.class	psdi\app\workorder\	9/9/2004	93,171
WOStatusHandler$MaterialUsage.class	psdi\app\workorder\	6/29/2004	1,642
WOStatusHandler.class	psdi\app\workorder\	6/29/2004	13,872