

IBM Maximo Asset Configuration Manager
Version 7.5

*Merging Assets (Tr) application
features into Assets (CM)*

IBM

Note

Before using this information and the product it supports, read the information in "Notices" on page 9.

This edition applies to version 7, release 5, modification 0 of IBM Maximo Asset Configuration Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Merging applications

You merge applications to extend one application by adding menus, reports, and user interface controls, such as fields, dialog boxes, and menus, from another application (external source application).

The process applies to merging Assets applications from two industry solutions. The Assets (CM) application from IBM® Maximo® Asset Configuration Manager is the target application. The Assets (Tr) application from IBM Maximo for Transportation is the external source application. The Assets (Tr) application features are merged into the Assets (CM) application.

How merging affects modifications

IBM Maximo Asset Management applications can be modified to include new UI controls, rearrange existing ones, edit menus, and so on. The merging process does not support the merging of any UI control modifications from the external source application. Source application modifications must be manually applied to the target application after the merging process.

For example, a new tab that was added to Assets (Tr) is not added to Assets (CM) by the merging process. The tab must be manually added to Assets (CM) if you need the added tab in the merged application.

Modifications that you applied to the target application remain in place after the merging process.

Unmodified UI controls that are brought from Assets (Tr) by the merging process are placed in Assets (CM) among the standard UI controls and any modified UI controls that you might have added to Assets (CM).

Prerequisites

To successfully merge applications in IBM Maximo Asset Management, you need familiarity with editing .xml files and with configuring applications, such as Application Designer, Security Groups, and Report Administration. Software prerequisites also apply to the merging process.

The following products must be properly installed before you proceed with the merging process:

- IBM Maximo Asset Management 7.5 or later, plus the latest corresponding hotfix.
- Maximo for Transportation 7.5 or later, plus the latest corresponding hotfix.
- Maximo Asset Configuration Manager 7.5 or later, plus the latest corresponding hotfix.

Chapter 2. Merging the Assets applications

To merge the Assets applications, you must merge their presentations and their reports.

Merging presentations

To merge presentations, you have to move the external source application UI controls and menu items into the target application.

For the Assets applications merge process, you must move the Assets (Tr) (PLUSTASSET) application UI controls and menu items into the Assets (CM) (PLUSAASSET) application:

1. Back up applications
2. Change the product descriptors
3. Copy menu items from Assets (Tr) into Assets (CM)
4. Run updateDB to apply the changes to the database
5. Redefine bean classes
6. Authorize menus
7. Review and rearrange layouts of the Assets (Tr) actions within Assets (CM)
8. Check results

Backing up applications

Before changing any of your applications, back up their content by exporting the application definitions and saving the .xml files.

Procedure

1. Start your application server (IBM WebSphere® Application Server or Oracle WebLogic Server).
2. Log in to IBM Maximo Asset Management and open the Application Designer application.
3. Go to the Assets (CM) application (PLUSAASSET) and export the application definitions.
4. Save the generated page into an .xml file.
5. Go to the Assets (Tr) application (PLUSTASSET) and export the application definitions.
6. Save the generated page into an .xml file.

Changing the product descriptors

Specify information to indicate that all presentation items (tabs, fields, and so on) must be merged from your external source application into your target application.

Procedure

1. Open the `<Maximo root>\applications\maximo\properties\product\aviation.xml` file in a text editor.

2. Inside the `<product>` tag, under `<lastdbversion>`, add `<depends>transportation</depends>`. That content establishes a dependence link between Maximo for Transportation and Maximo Asset Configuration Manager.

3. Inside the `<extensions>` tag, add an `<extendpresentation>` tag with the following content:

```
<extendpresentation app='PLUSAASSET' baseapp='PLUSTASSET' product='transportation'>
</extendpresentation>
```

That tag specifies that all the UI controls from Assets (Tr) must be added to the Assets (CM) application.

4. Inside the `<extensions>` tag, also add the following content:

```
<class extends='psdi.webclient.beans.asset.AssetAppBean'>psdi.plusa.
webclient.beans.asset.PlusAAssetAppBean</class>
```

5. Save the file.

6. Open the `<Maximo root>\applications\maximo\properties\product\transportation.xml` file in a text editor.

7. Inside the `<extensions>` tag, add the following content:

```
<class extends='psdi.webclient.beans.asset.AssetAppBean'>psdi.plust.webclient.
beans.plustasset.PlusTAssetAppBean</class>
```

8. Save the file.

Results

When you run `updateDB`, the first `<class>` tag inserted causes the application bean class of Assets (CM) to extend the one from Assets (Tr).

Copying menu items

The merging process does not, by default, copy the menu items from your external source application to your target application. You must select the `MAXMENU` and `SIGOPTION` records that must be copied from one application to the other.

Procedure

1. Open the `<Maximo root>\applications\maximo\properties\product\aviation.xml` file in a text editor.
2. Go to the `<Maximo root>\tools\maximo\aviation` folder.
3. Run the `menusdiff` tool (`menusdiff.bat` in Microsoft Windows or `menusdiff.sh` in UNIX). The tool accepts a parameter with the name of the file to be generated. (For more information, invoke the tool with the `-h` parameter). If the parameter is not provided, the default file name is `results.xml`.
4. Open the generated file in a text editor.
5. Copy all the `<add_sigoption>` and `<add_maxmenu>` tags from the generated file into the `<extendpresentation>` tag of the `aviation.xml` file.
6. For each `<add_sigoption>` tag that is added to the `aviation.xml` file, change the `app` value from `"PLUSTASSET"` to `"PLUSAASSET"`.
7. For each `<add_maxmenu>` tag that is added to the `aviation.xml` file, change the `moduleapp` value from `"PLUSTASSET"` to `"PLUSAASSET"`.
8. Optional: Edit the `<add_sigoption>` and `<add_maxmenu>` tags that you add to the `aviation.xml` file. Each of the tags becomes either a `SIGOPTION` record or a `MAXMENU` record in Assets (CM). You can prevent any individual record from being inserted by removing the corresponding tag from the file.
9. Save the `aviation.xml` file.

Running updateDB

To apply any changes made to the database, you must run the updatedb.bat file.

Procedure

1. Shut down the application server.
2. Go to *<Maximo root>\tools\maximo*.
3. Run the updatedb.bat file.
4. Start the application server and log in to IBM Maximo Asset Management.

Redefining bean classes

When the elements from the external source application are merged into your target application, you must redefine the bean classes in the post-merge presentation to ensure that events are properly handled.

Procedure

1. In IBM Maximo Asset Management, open the Application Designer application.
2. Open the Assets (CM) application (PLUSAASSET).
3. Export the application definition and save the generated page into an .xml file.
4. Open the .xml file in a text editor and change it as follows:

Table 1. Redefinition of the bean classes

Find the line that contains the ID:	Replace the bean class value with:	The result is a line similar to the following content:
id="plusaasset"	"psdi.plusa.webclient.beans.asset.PlusAAssetAppBean"	<presentation apphelp="com.ibm.trn.doc,plustasset/c_assets_app_trn.html" bean-class="psdi.plusa.webclient.beans.asset.PlusAAssetAppBean" id="plusaasset" mboname="ASSET" resultsta-bleid="results_showlist" version="7.1.0.0">

5. Save the file.
6. Open Application Designer.
7. Click **Import Application Definition**.
8. Browse for the file that you edited and click **OK**.

What to do next

After you redefine the bean classes, the **Select Action** menu entries from your external source application are available in your target application. To make those menu entries available to users, you must grant permissions to access those actions in the Security Groups application.

Reviewing and rearranging layouts

The process of copying menu items, tabs, table windows, fields, and so on, during the merge attempts to mimic the arrangement from your external source application. However, the resulting arrangement of the copied items into your target application can be different, due to this application existing elements. You can review and rearrange the application elements.

Procedure

1. In IBM Maximo Asset Management, open the Application Designer application.
2. Open the Assets (CM) application (PLUAASSET).
3. Use the options to modify the **Select Action**, **Toolbar**, and **Search** menus.

Results

Because the Assets (Tr) UI controls are now available in Assets (CM), you can also change the layout of those elements in Application Designer, if necessary.

Checking results

After the merge process is complete, and you have added all the UI controls from your external source application into your target application, you have to check your work.

Procedure

1. Check that all selected menu items from Assets (Tr) appear in the merged Assets (CM) menus.
2. Check that all previously existing menu items from Assets (CM) remain in the merged Assets (CM) menus.
3. Check that the fields that are specific to Assets (Tr) appear in the intended positions on the merged Assets (CM) windows.

What to do next

If necessary, repeat one or more of the previous steps to make corrections.

Merging reports

If you have any reports that are specific to your external source application, you must make the reports available in your merged application.

Procedure

1. Copy the `<Maximo root>\reports\birt\reports\PLUSTASSET\plustreports.xml` file to `<Maximo root>\reports\birt\reports\PLUSAASSET`.
2. Open the `<Maximo root>\reports\birt\reports\PLUSAASSET\plustreports.xml` file in a text editor.
3. In each `<report>` tag, the value of the `<attribute>` tag with `name="filename"` must refer to the Maximo for Transportation `.rptdesign` file, so the value has to be prefixed with `../PLUSTASSET/`. For example, if the current value is `<attribute name="filename">plustasset_report_name.rptdesign</attribute>`, it must be changed to `<attribute name="filename">../PLUSTASSET/`.
4. Save the file and rebuild the Maximo `.ear` file.
5. Start the application server and log in to IBM Maximo Asset Management.
6. Go to the Report Administration application and, from the **Select Action** menu, select **Set Application Security**.
7. For each new group you add:
 - a. On the Applications table, select the PLUSAASSET application.
 - b. In the Application Level Security table, insert a new row and specify a group.
 - c. In the new record, select the **All** check box.

Add as many groups as your security requirements need.

8. Click **OK** to save the changes.

9. In the Report Administration application, generate the request pages. You can generate the pages either by displaying each report and clicking **Generate Request Page**, or by clicking **Generate Request Pages** on the **List** tab.

Results

The merging of the reports is complete. Check that all reports from Assets (Tr) are now available in Assets (CM).

Accessing help in merged applications

Merging the Assets applications does not affect the installed help for the Assets (CM) and Assets (Tr) applications. You can access help for Assets (Tr) features from the navigation pane on the help window.

Before you begin

- The merging of the Assets (Tr) application into the Assets (CM) application must be complete.
- IBM Maximo Asset Management help must be installed and deployed.
- Maximo for Transportation help must be installed and deployed.
- Maximo Asset Configuration Manager help must be installed and deployed.

Procedure

1. In the Assets (CM) application, on the title bar, click **Help** and then **Assets (CM) Help**. You are accessing help for the original, pre-merged Assets (CM) application features.
2. In the navigation pane of the help window, click the plus sign (+) to expand the Maximo for Transportation help.
3. Expand the help for **Modules and applications > Assets module**.
4. Click **Assets application**. Here you access help for the Assets (Tr) features, which are now merged into the Assets (CM) application.

Search for merged help

Alternatively, you can enter a search phrase in the **Search** field above the navigation pane. For example, if you specify assets in the **Search** field and then click **Go**, topics about assets are displayed in the results list. Clicking an assets topic from the Maximo for Transportation help provides another means of entry to the help for Assets (Tr) features.

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