

IBM® Internet of Things (IoT)

Maximo Asset Management – Version 7 Releases

Changing logos in Maximo BIRT reports

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REVISION HISTORY

Date	Version	Revised By	Comments
May 2015		PDenny	Updated for additional information on report logos in Maximo 76 reports

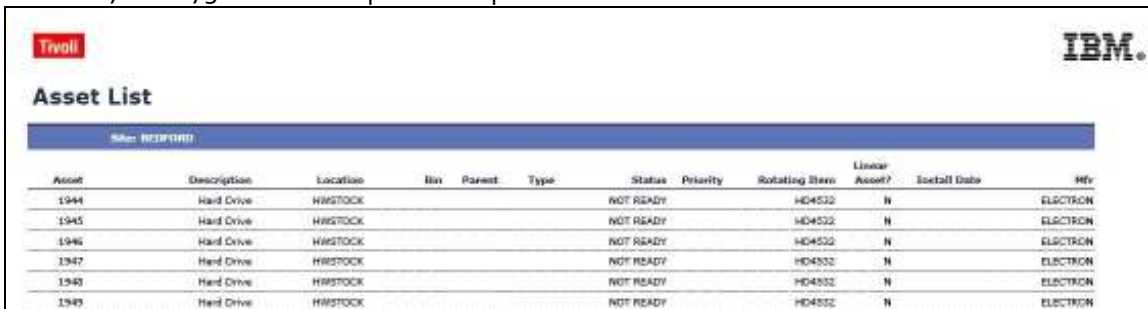
Overview

In the Maximo Version 7 releases, a variety of tools are available for you to analyze the vast amounts of data that Maximo produces. One of those tools is BIRT: Business Intelligence Reporting Tool. BIRT is an Eclipse-based tool for developing and viewing reports. The BIRT report engine uses XML report definitions to produce reports in a web-based report viewer in HTML.

Utilizing BIRT within Maximo gives you access to hundreds of delivered reports which span across the wide variety of applications Maximo enables. These reports are delivered to highlight how you can view and analyze data - along with highlighting a variety of styles and report types.

You may want to customize the delivered reports to meet your individual business needs. One common customization request is to change the logos on the delivered reports. In the Maximo 71 and 75 releases, two logos are contained within the reports - an IBM and Tivoli logo. With the Maximo 76 release, a single IBM logo is contained within the delivered reports.

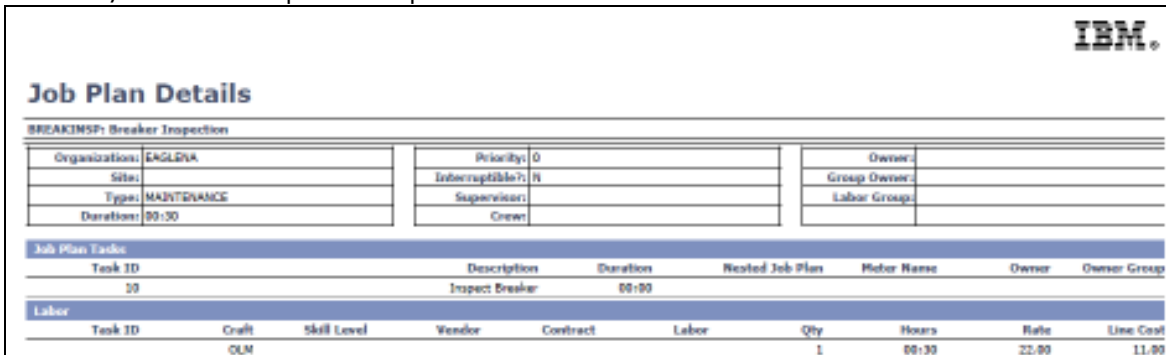
Maximo 71 and 75 delivered report example



The screenshot shows a report titled "Asset List" with a sub-header "Site: RECEIVED". It features a table with columns: Asset, Description, Location, Bin, Parent, Type, Status, Priority, Rotating Item, Linear Asset?, Install Date, and Mfr. The table contains six rows of data for hard drives, all with a status of "NOT READY".

Asset	Description	Location	Bin	Parent	Type	Status	Priority	Rotating Item	Linear Asset?	Install Date	Mfr
1944	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1945	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1946	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1947	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1948	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1949	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON

Maximo 76 delivered report example



The screenshot shows a report titled "Job Plan Details" for "BREAKMSB: Breaker Inspection". It includes a summary table with fields for Organization, Site, Type, Duration, Priority, Interruptible?, Supervision, Crew, Owner, Group Owner, and Labor Group. Below this is a "Job Plan Tasks" table and a "Labor" table.

Organization	EAGLEVA	Priority	0	Owner					
Site		Interruptible?	N	Group Owner					
Type	MAINTENANCE	Supervision		Labor Group					
Duration	00:30	Crew							
Job Plan Tasks									
Task ID	Description	Duration	Nested Job Plan	Refer Name	Owner	Owner Group			
00	Inspect Breaker	00:30							
Labor									
Task ID	Craft	Skill Level	Vendor	Contract	Labor	Qty	Hours	Rate	Line Cost
	OLM					1	00:30	22.00	11.00

This document details how you can update the report library files to replace the delivered logos with your unique business logos. This process will involve 3 steps:

1. Copy the corporate logos to the Report Directory
2. Update the report library and its associated xml file
3. Import the updated library into the Maximo Database

The specific example included here will detail replacing two of the logos as contained within the Maximo 71 and 75 releases.

Note:

1. The content within your specific library file may be slightly different depending on the specific release that you are using.
2. This same process would be followed if you are updating to a single label within the Maximo 76 releases - or to the two labels used in the Maximo 71/75 releases.

1 Step 1: Copy the corporate logos to the Report Directory

1A. Copy the 2 logos to be used to the following location: <Maximo>\reports\birt\libraries

In this example, a globe.gif and earth.jpg file are used as the new logos for all Maximo reports.



1B Zip the earth.jpg and globe.gif files together and call it resource.zip.

-- This step is **ONLY** required if you are going to import the MaximoSystemLibrary file through Maximo's Report Administration application.

2 Step 2: Update the report library and its associated xml file

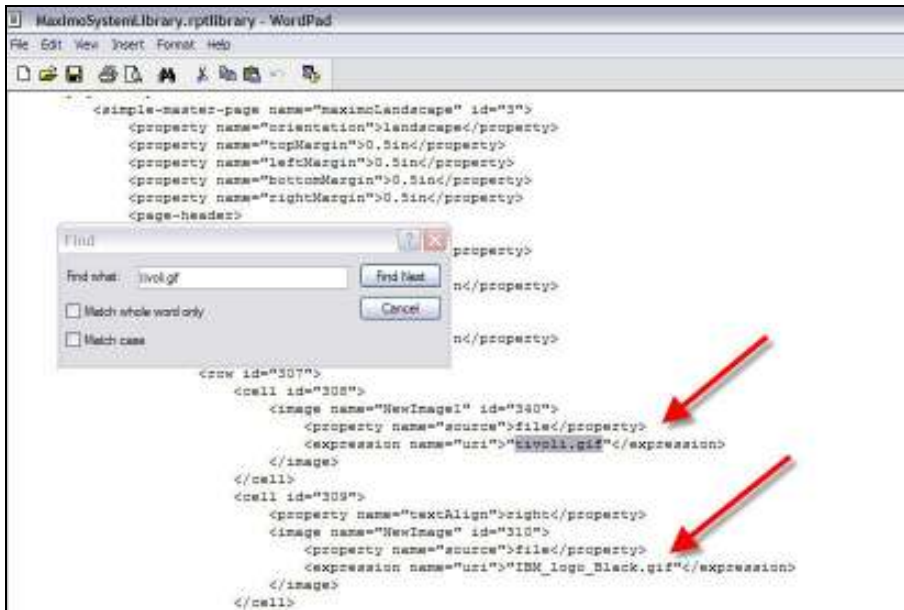
First, create a folder which will maintain a copy of the original files.

2A. Create a new folder called something like 'original' in <Maximo>\reports\birt.

2B. Navigate to the location of the MaximoSystemLibrary file located in:
<Maximo>\reports\birt\libraries.

Copy the MaximoSystemLibrary.rptlibrary file and libraries.xml file from this folder to the <Maximo>\reports\birt\original directory you just created.

2C. Next, update the library file. The MaximoSystemLibrary file is the single library file used for all Maximo reports. It contains references to the resource (images) files as highlighted below.



2D. Open the MaximoSystemLibrary file in Notepad.

1. Search for tivoli.gif and replace it with globe.gif.
2. Search for IBM_logo_black.gif and replace it with earth.jpg

The updated file is shown below. Save it and close.

```
MaximoSystemLibrary.rptlibrary - WordPad
File Edit View Insert Format Help
<single-master-page name="maximoLandscape" id="3">
  <property name="orientation">landscape</property>
  <property name="topMargin">0.5in</property>
  <property name="leftMargin">0.5in</property>
  <property name="bottomMargin">0.5in</property>
  <property name="rightMargin">0.5in</property>
  <page-header>
    <grid name="NewGrid2" id="304">
      <property name="width">100%</property>
      <column id="305">
        <property name="width">5in</property>
      </column>
      <column id="306">
        <property name="width">5in</property>
      </column>
      <row id="307">
        <cell id="308">
          <image name="NewImage1" id="310">
            <property name="source">file</property>
            <expression name="uri">*globe.gif</expression>
          </image>
        </cell>
        <cell id="309">
          <property name="textAlign">right</property>
          <image name="NewImage" id="310">
            <property name="source">file</property>
            <expression name="uri">*earth.jpg</expression>
          </image>
        </cell>
      </row>
    </grid>
  </page-header>
</single-master-page>
```

Next, the libraries.xml file will be updated. This is the file that is used to import the libraries and its associated resource files into the database using the importreports command utilities.

NOTE: If you are going to import the updated MaximoSystemLibrary file through Maximo's Report Administration application - you do not have to do this step.

2E. Navigate to the location of the libraries.xml file located in <Maximo>\reports\birt\libraries, and open it in notepad. Scroll to the bottom of the file.

```
libraries.xml - Notepad
File Edit Format View Help
</resources>
</library>
-->
<libraries>
  <library name="MaximoSystemLibrary.rptlibrary">
    <attribute name="filename">MaximoSystemLibrary.rptlibrary</attribute>
    <attribute name="description">MAXIMO System Report Library</attribute>
    <resources>
      <resource>
        <reference>IBM_logo_Black.gif</reference>
        <filename>IBM_logo_Black.gif</filename>
      </resource>
      <resource>
        <reference>tivoli.gif</reference>
        <filename>tivoli.gif</filename>
      </resource>
    </resources>
  </library>
```

1. Replace the IBM_logo_Black.gif references with earth.jpg.
2. Replace the tivoli.gif references with globe.gif.

The updated file is shown below. Save it and close.



```
libraries.xml - Notepad
File Edit Format View Help
</library>
-->
<libraries>
  <library name="MaximoSystem.library.rptlibrary">
    <attribute name="filename">MaximoSystem.library.rptlibrary</attribute>
    <attribute name="description">MAXIMO System Report Library</attribute>
    <resources>
      <resource>
        <reference>earth.jpg</reference>
        <filename>earth.jpg</filename>
      </resource>
      <resource>
        <reference>globe.gif</reference>
        <filename>globe.gif</filename>
      </resource>
    </resources>
  </library>
</libraries>
```

3 Step 3: Import the updated library into the MaximoDatabase

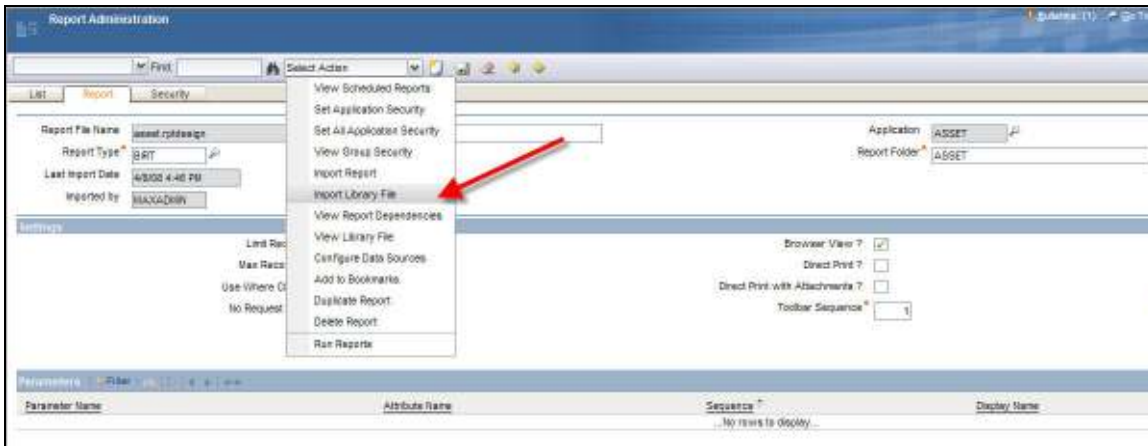
Next, the updated library and resource files need to be imported into the database. There are two ways this can be done:

1. Through the Report Administration application in Maximo
2. Through the importreports command utility.

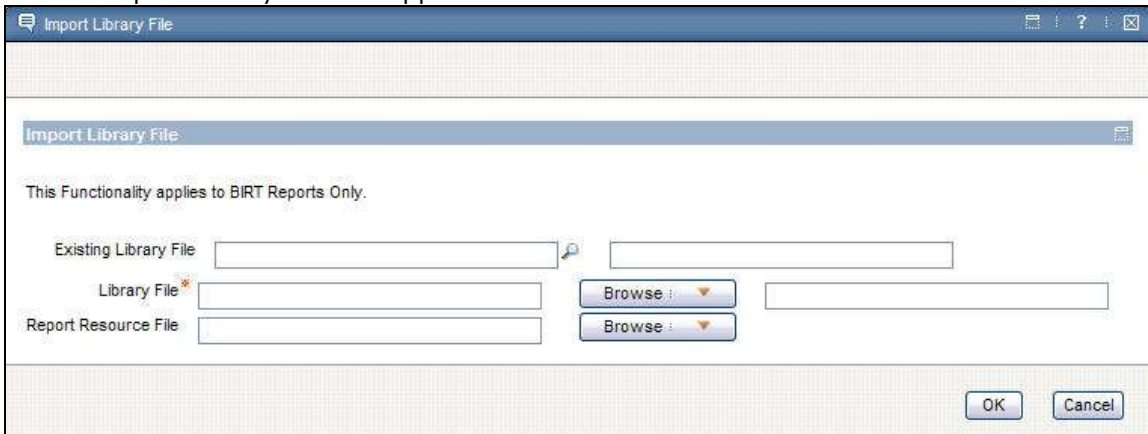
Both methods are described below.

Importing the library through Maximo's Report Administration application

- 3A. Sign into Maximo as an Administrator. Go to the Report Administration Application.
- 3B. Select any report, and go to its report tab.
- 3C. From the action menu, select Import library file



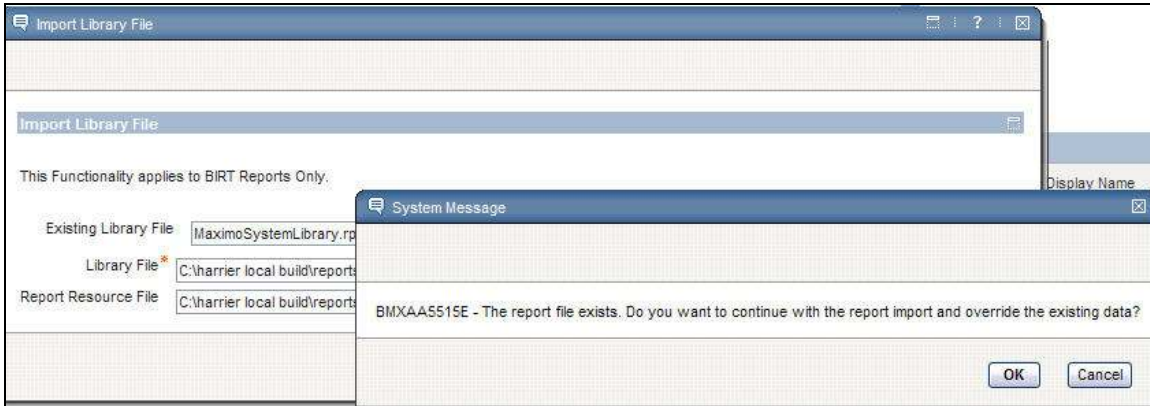
A blank Import Library Window appears.



- 3D. In 'Existing Library File', browse to the MaximoSystemLibrary file and select it.
In 'Library File', browse to the location of your new MaximoSystemLibrary file and select it.
In the 'Report Resource File', browse to the location of the resource.zip file (The zipped file of the globe.gif and earth.jpg files.)



- 3E. Click OK, and a System Message displays asking you to confirm the import. Click OK.



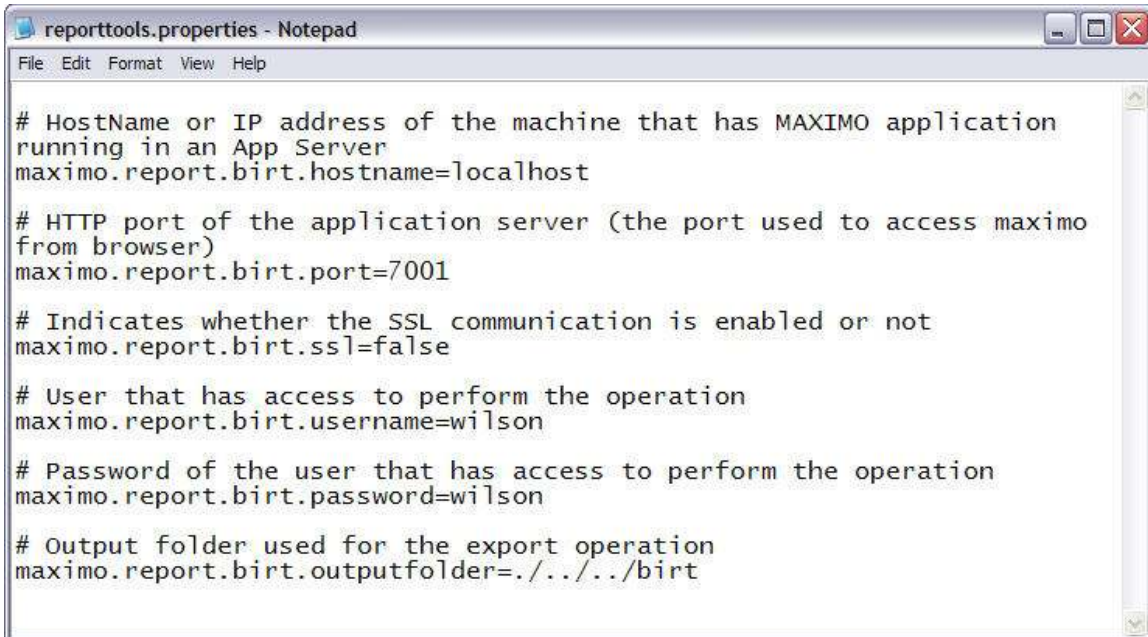
The updated MaximoSystemLibrary file and the new globe.gif and earth.jpg files have been imported into the V7 Database.

If you want to confirm the import through the database, use the statement below which will show the latest imported date and imported by.

```
select importedby, importeddate from reportdesign where reportname =  
'MaximoSystemLibrary.rptlibrary'
```

Importing the library using the importreports command utility.

- A. If this is the first time you are using the import/export utilities, confirm that the reporttools.properties file has been updated for the database you are importing these files to. The file is located in <Maximo>\reports\birt\tools.



```
reporttools.properties - Notepad
File Edit Format View Help

# HostName or IP address of the machine that has MAXIMO application
running in an App Server
maximo.report.birt.hostname=localhost

# HTTP port of the application server (the port used to access maximo
from browser)
maximo.report.birt.port=7001

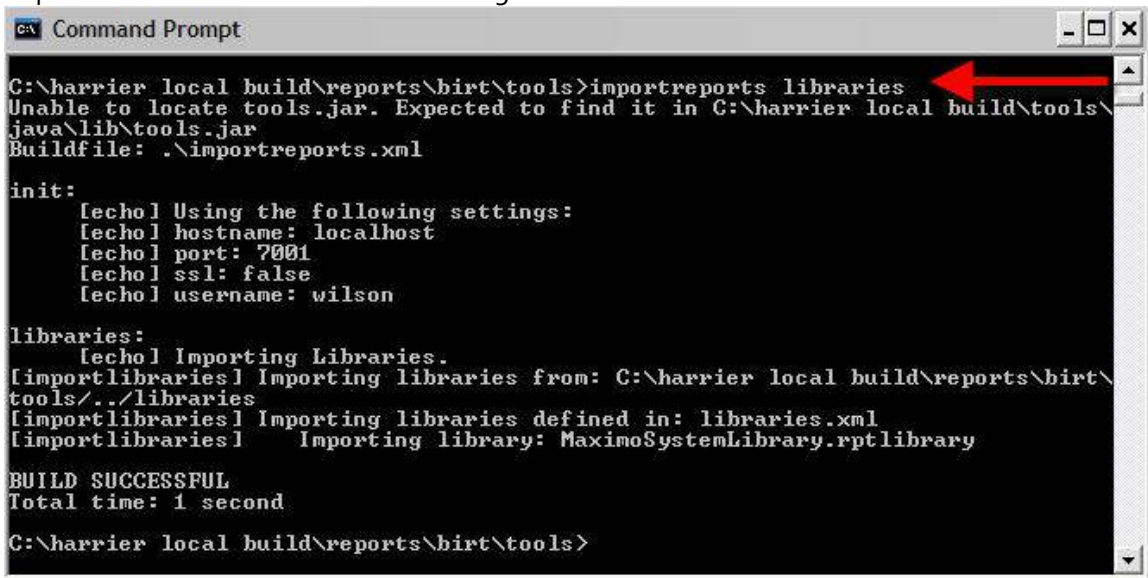
# Indicates whether the SSL communication is enabled or not
maximo.report.birt.ssl=false

# User that has access to perform the operation
maximo.report.birt.username=wilson

# Password of the user that has access to perform the operation
maximo.report.birt.password=wilson

# Output folder used for the export operation
maximo.report.birt.outputfolder=../../birt
```

- B. Next, open up a command prompt. Navigate to the location of your <Maximo>\reports\birt\tools. Enter importreports libraries and hit enter. The file is then imported into the Maximo database using the libraries.xml file.



```
Command Prompt
C:\harrier local build\reports\birt\tools>importreports libraries
Unable to locate tools.jar. Expected to find it in C:\harrier local build\tools\
java\lib\tools.jar
Buildfile: .\importreports.xml

init:
[echo] Using the following settings:
[echo] hostname: localhost
[echo] port: 7001
[echo] ssl: false
[echo] username: wilson

libraries:
[echo] Importing Libraries.
[importlibraries] Importing libraries from: C:\harrier local build\reports\birt\
tools\..\libraries
[importlibraries] Importing libraries defined in: libraries.xml
[importlibraries] Importing library: MaximoSystemLibrary.rptlibrary

BUILD SUCCESSFUL
Total time: 1 second

C:\harrier local build\reports\birt\tools>
```

To test that your updates have been incorporated, access a report within Maximo. Run the report and confirm that the new logos you specified have been incorporated similar to what is shown below.



The screenshot shows a Maximo report titled "Asset List" for site "MED1001". The report includes a table with the following columns: Asset, Description, Location, Inv, Parent, Type, Status, Priority, Rotating Item, Linear Asset?, Install Date, and Mfg. The table contains five rows of data, all with a status of "NOT READY".

Asset	Description	Location	Inv	Parent	Type	Status	Priority	Rotating Item	Linear Asset?	Install Date	Mfg
1344	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1345	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1346	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1347	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1348	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON
1349	Hard Drive	HWSTOCK				NOT READY		HD4532	N		ELECTRON

MAXIMO REFERENCE MATERIALS

A variety of materials are available for you for additional information on the various BI (Business Intelligence Tools) that Maximo provides. This information includes

1. Maximo Home BI/Reporting Page

Home page to reference materials, demo recordings and detailed information

<https://www.ibm.com/developerworks/community/wikis/home?lang=en#/wiki/IBM%20Maximo%20Asset%20Management/page/Reporting>

2. Maximo Asset Management Development You Tube Channel

You Tube channel enabling access to multiple videos on all aspects of BI and reporting.

<https://www.youtube.com/channel/UCblAkioCHwufGJCdjhEYwKQ>

3. Maximo Report Reference materials

Pages listing the latest reference materials on all aspects of reporting including administration, development, design, execution and customization.

Maximo 76 Reference Materials

<https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20Maximo%20Asset%20Management/page/Maximo%2076%20BI%20Documentation>

Maximo 71/75 Reference Materials

<https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20Maximo%20Asset%20Management/page/Reporting%20Documentation>

4. Maximo 7.6 Supported Product Matrix

Listing of supported platforms - including application servers, browsers, databases and more!

http://www-01.ibm.com/support/docview.wss?rs=3214&context=SSLKT6&q1=language&uid=swg27014419&loc=en_US&cs=utf-8&lang=en

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