

SAP Manufacturing Execution
How-To Guide



How to Set Up and Use the SAP ME HTML Viewer Feature

Applicable Release: ME 6.0 SP04

Version 1.3

January 28, 2013

SAP ME How-To-Guide for HTML Viewer

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Document History

Document Version	Description	Author
1.0	Initial version	Chet Moutrie
1.1	Corrected availability information (6.0.4 instead of 6.0.3)	Chet Moutrie
1.2	Added some clarifications and new information regarding Request Parameters	Chet Moutrie
1.3	Removed server names	Chet Moutrie

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1 Introduction

1.1 Purpose

The SAP ME How-To-Guide for the HTML Viewer feature is intended to provide sufficient information to enable the feature to be easily configured and readily utilized to meet business needs, making use of available best practices.

1.2 Scope

This document covers all aspects of the HTML Viewer feature and how to set it up.

1.3 Glossary

ME	Manufacturing Execution – SAP manufacturing execution system for discrete manufacturing industries
MII	Manufacturing Integration and Intelligence – An SAP toolset local to the plant for integrating shop floor systems with SAP applications and for the development of custom reports using real-time data
Servlet	a Java programming language class used to extend the capabilities of servers that host applications access via a request-response programming model
UME	User Management Engine

2 Feature Overview

This overview provides a high level description of the SAP ME HTML Viewer feature. For more details, see [HTML Viewer Functions](#) below.

2.1 Description and Applicability

The HTML Viewer is an SAP ME POD plug-in that enables the viewing of an image or html page generated by a servlet. The intended use is to provide visibility of MII reports and dashboards within the context of the ME POD.

While the primary goal for the viewer is the viewing of MII generated content, the technical implementation of the viewer enables it to view any content in a supported format that is made available by a servlet.

2.2 Business Purposes / Functions

The SAP ME HTML Viewer feature provides access to graphics images and html content generated by MII and made available through the use of a standard interface. It does this through integration with SAP NetWeaver in order to leverage the standard UME features and functions that the platform provides. Configuration of the viewer is performed in SAP Netweaver and in

SAP ME. As indicated above, it can be used to view content made available by any servlet that is integrated with the NetWeaver UME.

3 HTML Viewer Functions

3.1 View MII Content

The HTML Viewer is a plug-in activity that should be configured on a primary button in a POD. The viewer is activated by selecting the button in the POD. It is not necessary to establish any specific conditions (i.e. make any other selections) prior to selecting the button for the viewer. Only static data, defined in an activity rule for the viewer activity, is passed to the Servlet.

The content from the Servlet is delivered as one of the following types:

- text/html
- image/gif
- image/png
- image/jpeg

The content can be displayed in a pop-up window, or in a panel in the POD as shown in the following screenshot.

The screenshot displays the SAP ME Production Operator Dashboard for Site - ANT, User - SITE_ADMIN. The dashboard includes a POD Selection section with input fields for Operation, Resource, and SFC, and a row of buttons: Start, Complete, Sign Off, Work Instruction, Assemble, DC Collect, Log NC, NC Tree, Tool List, Activities..., Reports..., and MII Report. Below this is a POD Work List table with columns: SFC, Material, Qty, Prio..., Operation Start, Shop Order, Status, Complete Pending. The Reports section is active, showing a Chart Designer window with a grouped bar chart. The chart has 8 categories on the x-axis and 5 data series (Series1 to Series5) on the y-axis, with values ranging from 0 to 100. A Close button is located at the bottom of the chart window.

The Destination contains the URL and proper authentication required to make the connection.

3.2 View / Edit Request Parameters

When an image is being viewed in the HTML Viewer, the user can right click in the viewer to obtain a pop-up dialog containing a list of the SAP ME request parameters sent to the MII Servlet via the destination URL (see REQUEST_PARAMETERS in [Activity Maintenance](#) below).

The parameter values in the pop-up dialog can be edited by the user. This will cause the URL to be updated and the viewer contents to be updated based upon the new value(s) sent to the MII Servlet. If a Polling Period has been defined, the timer will be re-initialized and the contents will be refreshed at the next polling cycle. If a Polling Period has not been defined, an immediate refresh of the viewer contents will occur.

4 Integration

4.1 Netweaver Integration

The viewer obtains the content by making an http request to a Servlet using a URL defined as a Destination in Netweaver. This is done for security purposes, including the hiding of the authentication information.

4.2 MII Integration

The Netweaver Destination contains the URL and proper authentication required to make the connection to the MII Servlet.

5 HTML Viewer Setup

5.1 External Configuration

5.1.1 Pre-requisites

If using an MII servlet, both MII and Netweaver must both be already installed.

5.1.2 Netweaver Setup

A Destination must be set up in Netweaver by someone with administrator privileges. The following attributes must be set up for the Destination:

- Destination Name - This value will be assigned to the optional activity rule, DESTINATION_NAME, in Activity Maintenance in SAP ME, so it must be defined in upper case characters.
- Destination Type - This must be set to HTTP
- URL - The URL for the Servlet, for example:
http://server:50000/XMII/Runner?Transaction=project/folder1/folder2/transaction_name&OutputParameter=OutputString&Content-Type=image/png&Width=464&Height=260
The URL for the MII Servlet specifies the content type and the width and height of the image to be displayed. The Transaction portion of the URL depends upon how you set

up MII and the transaction in MII. Please refer to the MII Guides and Help for more information.

- Authentication - The type of authentication to be used, for example: Basic (User ID and Password)
- Authentication parameters - Depends upon authentication type selected. For example, for Basic authentication the following parameters are required:
 - User Name
 - Password

Please refer to the NetWeaver Security Guide and Help for more information.

5.2 Maintenance Activities

5.2.1 System Configuration

5.2.1.1 Activity Maintenance

5.2.1.1.1 Purpose / Effects

Activity Maintenance is used to set up the HTML Viewer activity in SAP ME. This activity will be assigned to a button in POD maintenance.

5.2.1.1.2 Settings / Example

On the Main tab in Activity Maintenance, add a new activity and set the following fields to the values indicated.

Activity The name of the activity for the HTML Viewer plug-in
Class/Program: com.sap.me.reporting.client.impl.ReportsPlugin
Type: WPMF Plugin

Enter the following on the Rules tab:

PLUGIN_URL /COM/SAP/ME/REPORTING/CLIENT/REPORTS_PLUGIN.JSP
DESTINATION_NAME The name of the destination defined in Netweaver

The Rules tab can also be used to set the following optional rules:

TITLE The title for the plugin. The default is REPORTS.title.TEXT.

REQUEST PARAMETERS If used, the parameters will be added to the destination URL (e.g. PARAM1=VALUE1&PARAM2=VALUE2&PARAM3=VALUE3).

POLLING_PERIOD The number of seconds between automatic requests to update the content in the HTML Viewer. If not defined, or if the value is less than or equal to zero, polling (refresh of the viewer contents) will not be performed.

RESPONSE_TYPE The type of content that will be provided by the servlet.
IMAGE (default) is used if the content will be a .png, .gif or .jpg image
HTML is used if the content will be an HTML page

5.2.1.2 POD Maintenance

5.2.1.2.1 Purpose / Effects

For the viewer, POD Maintenance is used to set up the primary POD button that will be used to invoke the viewer.

5.2.1.2.2 Settings / Example

After retrieving the POD that will be used, a new button should be added by selecting Insert New on the Buttons tab and entering data for the following fields:

- Button ID - A unique ID for the button
- Button Label - The text to be displayed on the button

Then select Insert New on the Button Details screen and select the activity defined for the HTML Viewer.

The activity defined for the HTML Viewer must also be assigned to a panel in the POD or to a popup window. This can be accomplished on the Layout tab.

5.2.1.3 User Group Maintenance

5.2.1.3.1 Purpose / Effects

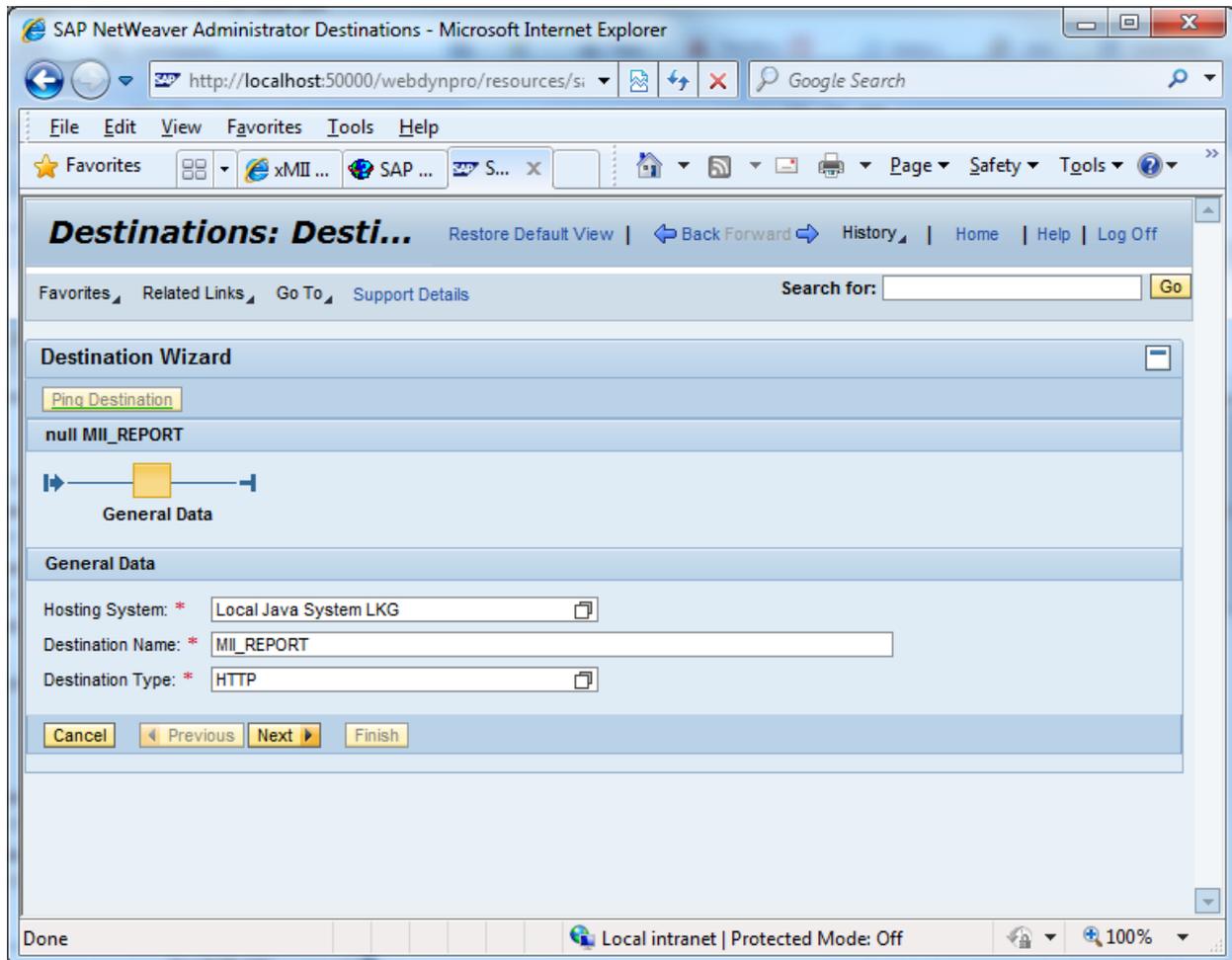
For the viewer activity added in Activity Maintenance, all user groups who will use the viewer must be given permission to that activity.

5.2.1.3.2 Settings / Example

For each user group who will use the viewer, retrieve the user group and enable permission (check the checkbox) for the viewer activity on the Permissions tab.

6 HTML Viewer Setup and Usage Scenario / Example

1. Logon to Netweaver Administrator (http:server:port/nwa).
2. Go to the Configuration -> Destinations view.
3. Select Create to add new Destination for MII Runner Servlet.
4. Enter a Destination Name in upper case characters (e.g. "MII_REPORT").
5. Set the Destination Type as HTTP.

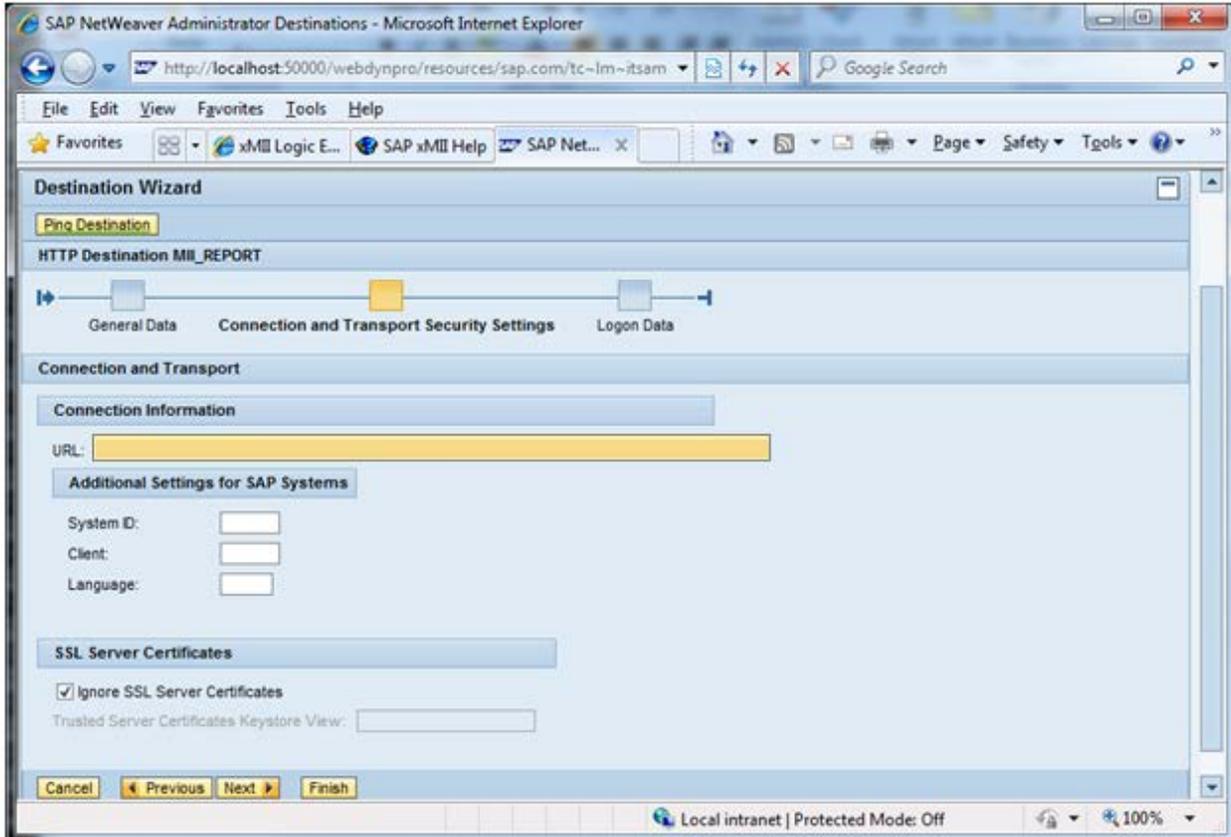


6. Select Next.

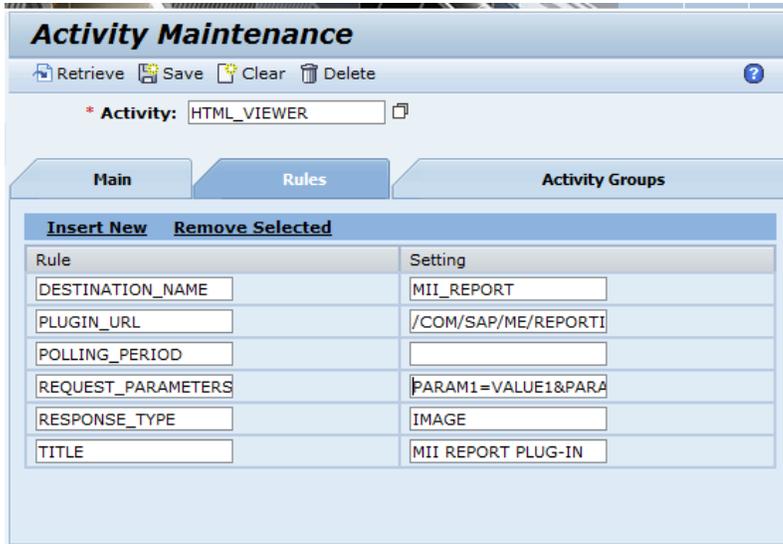
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7. Add the URL for the MII Runner Servlet.

<http://server:50000/XMII/Runner?Transaction=project1/examples/transaction/reportImage&OutputParameter=OutputString&Content-Type=image/png&Width=464&Height=260>



8. Select Next.



Rule	Setting
DESTINATION_NAME	MII_REPORT
PLUGIN_URL	/COM/SAP/ME/REPORTI
POLLING_PERIOD	
REQUEST_PARAMETERS	PARAM1=VALUE1&PARA
RESPONSE_TYPE	IMAGE
TITLE	MII REPORT PLUG-IN

16. Open POD Maintenance and retrieve the POD to be modified.
17. Select the Buttons tab.
18. Select Insert New.
19. Enter data for the following fields as indicated:
 Button ID MII_REPORT
 Button Label MII Report
20. Select Insert New on the Button Details screen.
21. Browse for and select activity MII_REPORT.
22. Select the Apply button.
23. Select the Layout tab.
24. Select the Other Plug-Ins icon in the Popup row.
25. Select Insert New.
26. Browse for and select activity MII_REPORT.
27. Select the Apply button.
28. Select the Save icon.
29. Open the POD in another window.
30. Select the MII Report button.
31. A window titled REPORTS should open and display the content of an MII report.



32. Right click in the Reports window to access the Request Parameters dialog.



33. Edit a parameter value and select OK

34. The contents of the Reports window will be immediately updated based upon the edited parameter value.

7 Links to Additional Information

[SAP ME Guides and Help](#)

[SAP MII Guides and Help](#)

8 Other Reference Material

None provided.

9 Overview of Changes

This is a new feature in SAP ME 6.0.4. It was planned for 6.0.3, but we were not allowed to include it in that version.