

SAP ME HTML Viewer

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HTML Viewer Overview

HTML Viewer Overview

PURPOSE

The HTML Viewer was developed to display MII generated content (for example, reports and dashboards), in a plug-in within an ME POD.

SCOPE

The technical implementation enables the viewer to display any content that is in a supported format. This includes graphical images and html pages.

- ❑ Supported graphical images include: GIF, JPG and PNG.
- ❑ Interactive html pages are supported as long as each page uses only fully qualified links (e.g. <http://www.site.com/filename.ext>)
- ❑ With ME 6.1, ME and MII run on the same server. This enables most of MII to be run within the SAP ME HTML Viewer.

ADDITIONAL FEATURES

Content can be automatically refreshed based upon a configurable polling interval

Configurable authentication for the content source can eliminate need for user login

Content Development

Sources of HTML Viewer Content

SAP MII SERVLET

MII can be used to develop servlets that generate output as html pages or as graphical images.

FILES

Files containing html pages or graphical images can be generated by external applications and made available via HTTP.

- ❑ HTML pages can be interactive as long as any contained links are fully qualified (i.e. contain the complete path)
- ❑ Supported graphical image formats include: GIF, JPG and PNG.

MII

As long as MII is running on the same server as ME, MII can be run in the HTML Viewer plug-in within ME.

Configuration in NetWeaver

HTML Viewer Configuration in NetWeaver

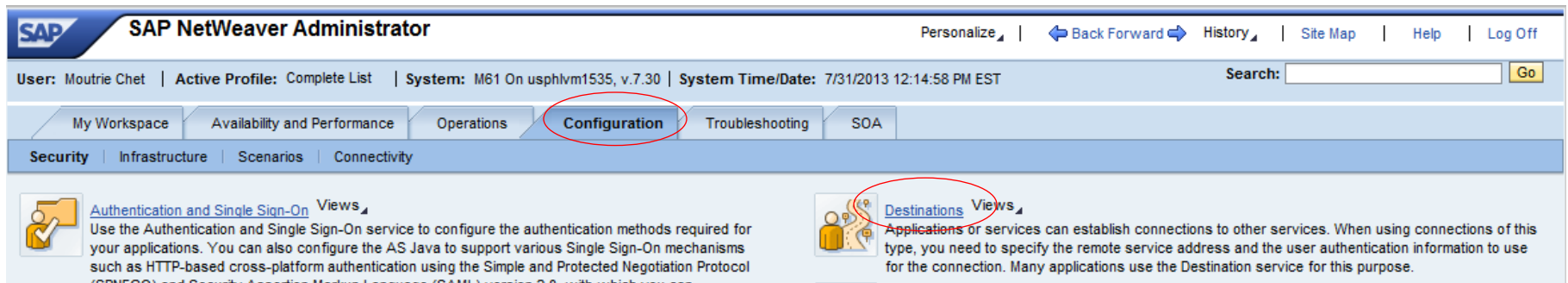
NetWeaver Destination

NETWEAVER DESTINATION

The viewer obtains the content by making an http request using a URL defined as a Destination in Netweaver.

To define a Destination:

1. Select Configuration
2. Select Destinations

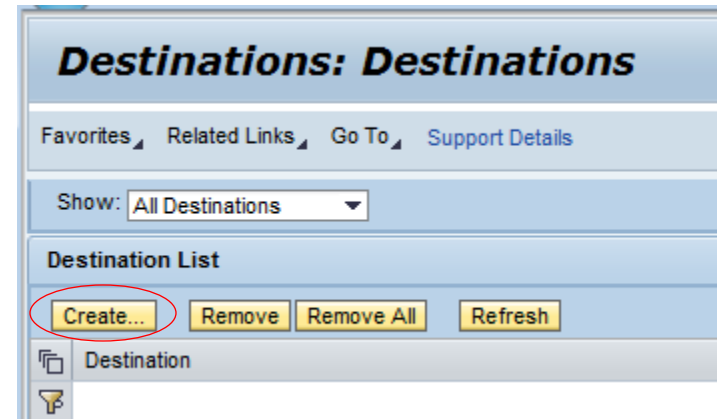


The screenshot displays the SAP NetWeaver Administrator web interface. At the top, the title bar reads "SAP NetWeaver Administrator" and includes navigation links for "Personalize", "Back Forward", "History", "Site Map", "Help", and "Log Off". Below the title bar, the user information is shown: "User: Mourtie Chet | Active Profile: Complete List | System: M61 On usphlvm1535, v.7.30 | System Time/Date: 7/31/2013 12:14:58 PM EST". A search bar is located on the right side of this bar. The main navigation area features several tabs: "My Workspace", "Availability and Performance", "Operations", "Configuration" (highlighted with a red circle), "Troubleshooting", and "SOA". Below these tabs, there are sub-sections for "Security", "Infrastructure", "Scenarios", and "Connectivity". The main content area is divided into two sections. The left section is titled "Authentication and Single Sign-On Views" and contains a brief description of the service. The right section is titled "Destinations Views" (also highlighted with a red circle) and contains a brief description of the service. The "Destinations Views" section is further divided into "Applications" and "Services".

HTML Viewer Configuration in NetWeaver

NetWeaver Destination

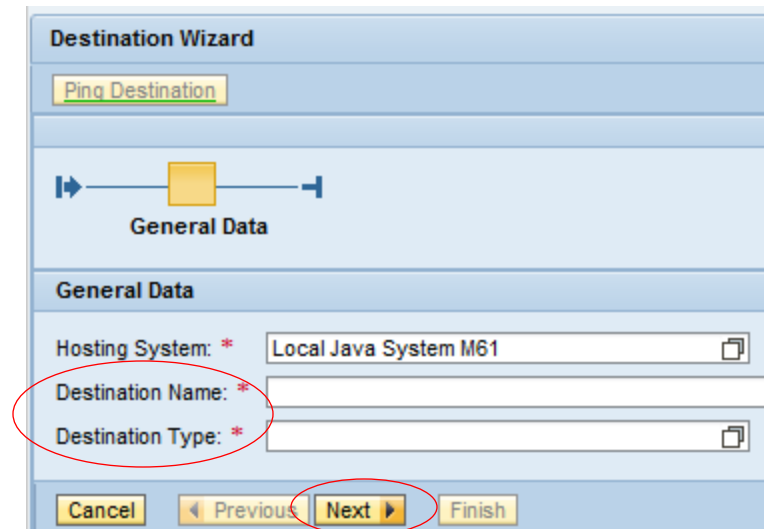
3. Select Create



4. Enter the destination name (upper case)

5. Select HTTP as the destination type

6. Select Next



HTML Viewer Configuration in NetWeaver

NetWeaver Destination

5. Enter the URL for the destination
6. Select Finish

Note: The authentication will default to “No Authentication”

For details regarding a URL for a servlet, see the SAP ME How-To-Guide - HTML Viewer listed in Additional Information at the end of this presentation.

The screenshot shows the 'Destination Wizard' interface for configuring an 'HTTP Destination DEST1'. The wizard is currently on the 'Connection and Transport Security Settings' step, which is highlighted with a yellow square. A progress bar at the top shows the 'General Data' step completed with a blue square and the current step with a yellow square. The 'Connection Information' section contains a 'URL' field with the value 'http://servername/HTML_Viewer_Test.png', which is circled in red. Below this is a section for 'Additional Settings for SAP Systems' with input fields for 'System ID', 'Client', and 'Language'. The 'SSL Server Certificates' section has a checked checkbox for 'Ignore SSL Server Certificates' and a text field for 'Trusted Server Certificates Keystore View'. At the bottom, the 'Finish' button is circled in red, along with the 'Previous' and 'Next' navigation buttons.

HTML Viewer Configuration in NetWeaver

Configure Authentication

DESTINATION AUTHENTICATION

The NetWeaver Destination contains the authentication, if any, to be used for the content source. To change the authentication:

1. Select the Destination
2. Select Edit
3. Select the Logon Data tab

Destinations: Destinations

Favorites Related Links Go To Support Details

Show: All Destinations

Destination List

Create... Remove Remove All Refresh

Destination
CHET_MII_HTTP
DASdefault
DEST1
MII_HTTP
UPDATE_PRIORITY

Destination Detail

Edit Ping Destination

HTTP Destination DEST1

Connection and Transport Logon Data

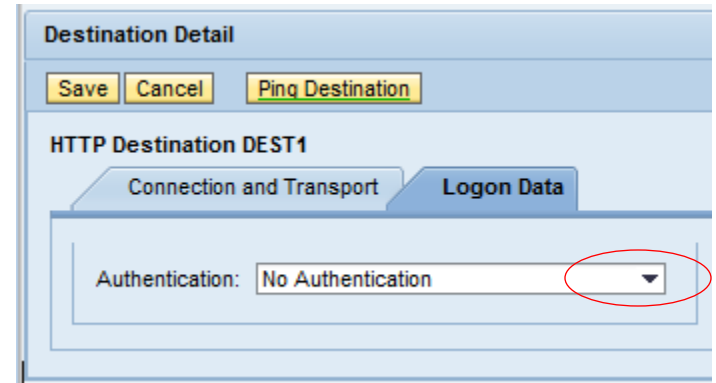
Connection Information

URL: http://servername/HTML_Viewer_Test.png

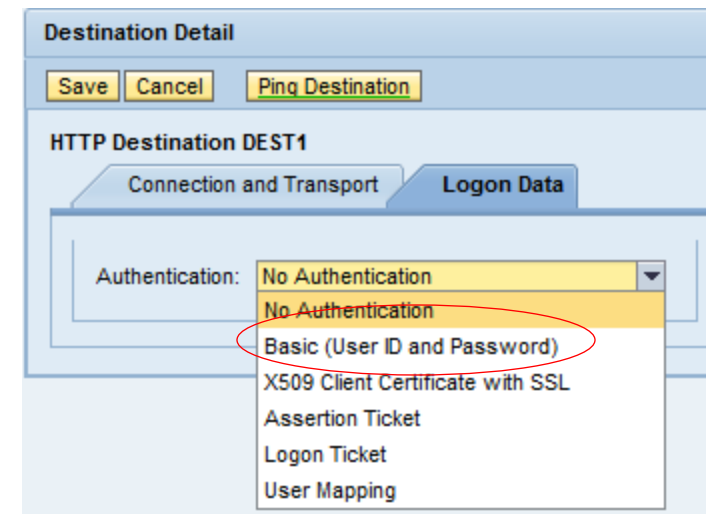
HTML Viewer Configuration in NetWeaver

Configure Authentication

4. Select the Authentication drop-down



5. Select The authentication type



HTML Viewer Configuration in NetWeaver

Configure Authentication

6. Enter the user name and password to be passed to the servlet or html page specified in the Destination
7. Select Save

The screenshot shows the 'Destination Detail' configuration page for 'HTTP Destination DEST1'. The 'Logon Data' tab is selected. The 'Authentication' dropdown is set to 'Basic (User ID and Password)'. Below this, the 'Basic Authentication' section contains two input fields: 'User Name' and 'Password'. A red oval highlights the 'Save' button at the top left and the 'User Name' and 'Password' input fields.

Configuration in ME

HTML Viewer Configuration in ME

Create and Configure Activity

ME ACTIVITY

The HTML Viewer is made available in ME by creating and configuring an ME activity and by configuring an ME POD to display the activity as a plug-in.

To create and configure an ME activity for the HTML Viewer:

1. Select Activity Maintenance in the Activity Manager in ME

The screenshot shows the SAP Activity Maintenance configuration interface. On the left, a navigation tree under 'System Configuration' has 'Activity Maintenance' highlighted with a red circle. The main window is titled 'Activity Maintenance' and contains a toolbar with 'Retrieve', 'Save', 'Clear', and 'Delete' buttons. Below the toolbar is a form with the following fields and options:

- * Activity: [Text Input]
- Tabbed interface with 'Main', 'Rules', and 'Activity Groups' tabs.
- Description: [Text Input]
- Text: [Text Input]
- Enabled: Enabled
- Visible in Activity Manager: Visible in Activity Manager
- Class/Program: [Text Input]
- Type: EJB (dropdown menu)

HTML Viewer Configuration in ME

Create and Configure Activity

2. Enter an activity name and description
3. Enter the following in the Class/Program field:
com.sap.me.reporting.client.impl.ReportsPlugin
4. Select WPMF Plugin in the Type drop-down

The screenshot displays the SAP Activity Maintenance configuration interface. The left sidebar contains a navigation menu with the following items:

- Collaboration Log Report
- DB Diagnostics Report
- System Configuration
 - Activity Code Maintenance
 - Activity Group Maintenance
 - Activity Maintenance
 - Background Processing
 - Barcode Data Format Maintenance
 - Buyoff Maintenance
 - Certification Maintenance
 - Certification Type Maintenance
 - Collaboration Directive Maintenance
 - Collaboration Link Maintenance
 - Control Key Maintenance
 - Data Field Assignment Maintenance
 - Data Field Definition Maintenance

The main area is titled "Activity Maintenance" and includes a toolbar with "Retrieve", "Save", "Clear", and "Delete" buttons. The form is divided into three tabs: "Main", "Rules", and "Activity Groups". The "Main" tab is active and contains the following fields:

- * Activity:** A text input field, circled in red.
- Description:** A text input field, circled in red.
- Text:** A text input field.
- Enabled:** A checked checkbox.
- Visible in Activity Manager:** An unchecked checkbox.
- Class/Program:** A text input field containing "com.sap.me.reporting.client.impl.ReportsPlugin", circled in red.
- Type:** A dropdown menu with "EJB" selected, circled in red.

HTML Viewer Configuration in ME

Create and Configure Activity

5. Select Save

Activity Maintenance

Retrieve Save Clear Delete

* Activity: HTML_VIEWER_ABC

Main Rules Activity Groups

Description: HTML Viewer ABC Text:

Enabled

Visible in Activity Manager

Class/Program: com.sap.me.reporting.client.impl.ReportsPlugin

Type: WPMF Plug-In

HTML Viewer Configuration in ME

Create and Configure Activity

5. Select the Rules tab
6. Select Insert New six times

Activity Maintenance

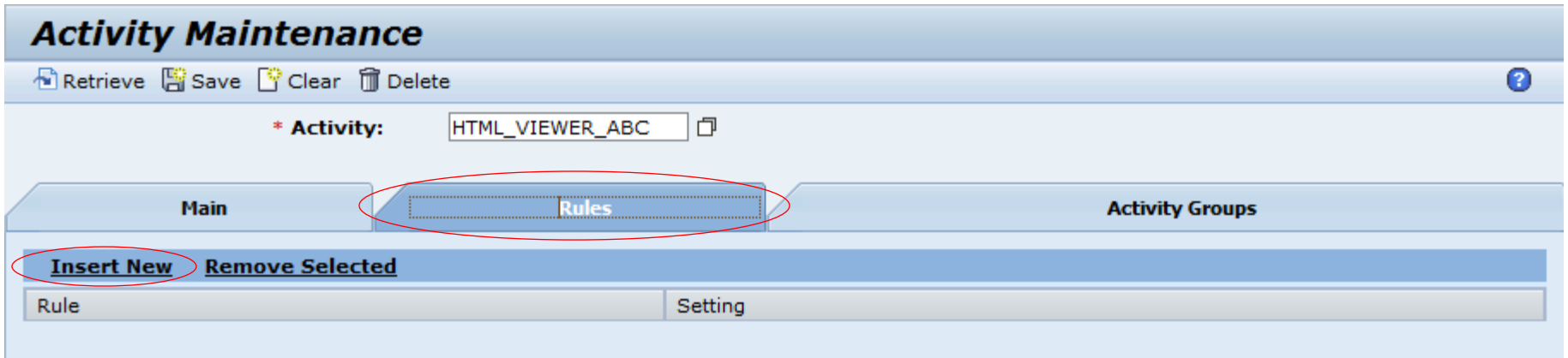
Retrieve Save Clear Delete

* Activity: HTML_VIEWER_ABC

Main **Rules** Activity Groups

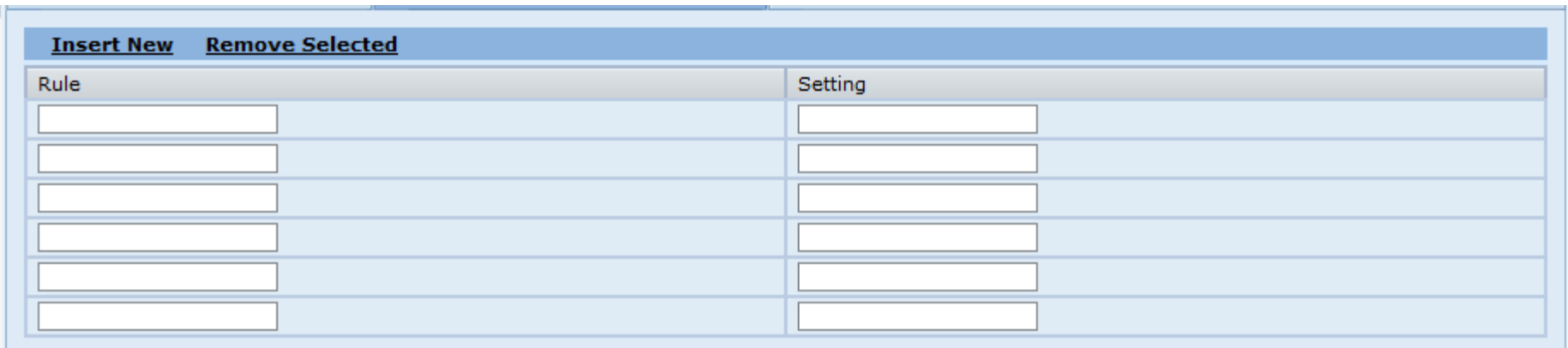
Insert New Remove Selected

Rule	Setting
------	---------



Insert New Remove Selected

Rule	Setting
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>



HTML Viewer Configuration in ME

Create and Configure Activity

7. Enter the rules and settings as shown below
8. Select Save
9. Select the Activity Groups tab

Activity Maintenance

Retrieve Save Clear Delete

* Activity: HTML_VIEWER_ABC

Main Rules **Activity Groups**

Insert New Remove Selected

Rule	Setting
DESTINATION_NAME	DEST1
PLUGIN_URL	/COM/SAP/ME/REPORTI
POLLING_PERIOD	300
REQUEST_PARAMETERS	&PARAM1=VALUE1&PAR
RESPONSE_TYPE	IMAGE
TITLE	HTML VIEWER

/COM/SAP/ME/REPORTING/CLIENT/REPORTS_PLUGIN.JSP

&PARAM1=VALUE1&PARAM2=VALUE2&PARAM3=VALUE3

Note: The parameter names and values will be passed to the destination (e.g. to an MII report as filter values for the report). For the IMAGE example above parameters are not meaningful.

HTML Viewer Configuration in ME

Create and Configure Activity

10. Select the activity group for the HTML_VIEWER_ABC activity
11. Select the “right arrow” button
12. Select Save

The screenshot displays the SAP Activity Maintenance interface. At the top, the title bar reads "Activity Maintenance". Below it, a toolbar contains icons for "Retrieve", "Save", "Clear", and "Delete". The "Save" icon is circled in red. Below the toolbar, the "Activity:" field is set to "HTML_VIEWER_ABC". The interface is divided into three tabs: "Main", "Rules", and "Activity Groups". The "Activity Groups" tab is active. It contains two panels: "Available Activity Groups" and "Assigned Activity Groups". The "Available Activity Groups" panel lists several activity groups, with "Nonconformance" circled in red. Between the two panels are two yellow buttons with blue arrows: a right-pointing arrow (circled in red) and a left-pointing arrow. The "Assigned Activity Groups" panel is currently empty.

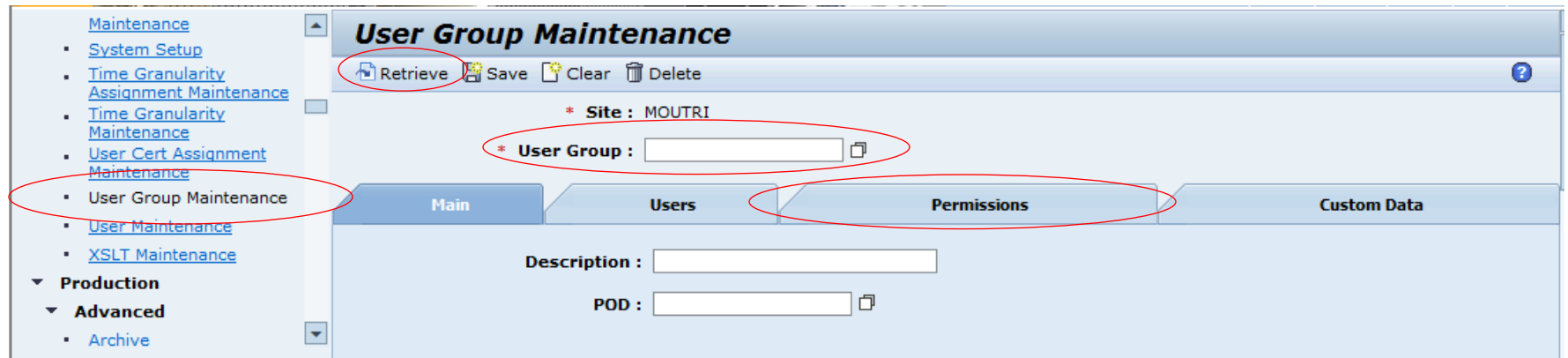
HTML Viewer Configuration in ME

Assign Permissions

ME User Group Permissions

One or more ME user groups must be given permissions to the HTML_VIEWER_ABC activity to enable users to access the HTML Viewer:

1. Select User Group Maintenance in the Activity Manager in ME
2. Select an existing User Group
3. Select Retrieve
4. Select the Permissions tab



HTML Viewer Configuration in ME

Assign Permissions

4. Scroll down in the list to find the HTML Viewer ABC activity
5. Select the Execute checkbox for this activity
6. Select Save

The screenshot displays the 'User Group Maintenance' interface. At the top, there are buttons for 'Retrieve', 'Save', 'Clear', and 'Delete'. The 'Save' button is circled in red. Below the buttons, the 'Site' is set to 'MOUTRI' and the 'User Group' is 'OPERATORS'. The 'Permissions' tab is active, showing a table of activity groups and activities. The 'Execute' column has a checked checkbox for 'HTML Viewer ABC', which is also circled in red. Other activities listed include 'Data Collection with NC', 'Display Buyoff', 'Document (Re)print', 'Earned Standards', 'JohnF Operation POD', 'Load CNC Program Plug-In', 'Log Buyoff', 'Log Codes', and 'Log Comment'.

Execute	Activity Groups and Activities
<input type="checkbox"/>	Data Collection with NC
<input type="checkbox"/>	Display Buyoff
<input type="checkbox"/>	Document (Re)print
<input checked="" type="checkbox"/>	Earned Standards
<input checked="" type="checkbox"/>	HTML Viewer ABC
<input type="checkbox"/>	JohnF Operation POD
<input type="checkbox"/>	Load CNC Program Plug-In
<input type="checkbox"/>	Log Buyoff
<input checked="" type="checkbox"/>	Log Codes
<input type="checkbox"/>	Log Comment
<input type="checkbox"/>	Log NC

HTML Viewer Configuration in ME

Configure POD

ME Production Operator Dashboard (POD)

To configure an existing ME POD for the HTML Viewer:

1. Select POD Maintenance in the Activity Manager in ME
2. Select an existing POD name in the POD drop-down
3. Select Retrieve

POD Maintenance

Retrieve Save Clear Delete

* Site: MOUTRI

* Type: Operation

* POD: []

Main Buttons Layout List Options POD Selection Printers Custom Data

Description: [] Sound with Error Messages

* Status: Enabled

* Display Device: Standard

* Display Size: Extra Large

NC Client: LOG_NC

Real-Time Message Display: None

Special Instruction Display: Info Message

* Session Timeout (mins): 30

HTML Viewer Configuration in ME

Configure POD

4. Select the Buttons tab
5. Select the icon in the Details column for the ACTIVITIES button (for details on how to add a separate primary button, see SAP ME Help for POD Maintenance)

POD Maintenance

Retrieve Save Clear Delete

* Site: MOUTRI

* Type: Operation

* POD: OPERATION_CUST

Main **Buttons** Layout List Options POD Selection Printers Custom Data

Insert New Insert Before Insert After Remove Selected Remove All

<input type="checkbox"/>	Sequence	Button ID Or Label	Button Type	Hotkey	Details
<input type="checkbox"/>	10	START / I18N[start.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	20	COMPLETE / I18N[complete.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	30	SIGNOFF / I18N[signoff.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	40	WORK_INSTRUCTION / I18N[workinstruction.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	50	ASSEMBLE / I18N[assemblyPoint.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	60	DC_COLLECT / I18N[DCCollect.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	70	LOG_NC / I18N[logNC.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	80	NC_TREE / I18N[ncTree.default.LABEL]	Normal	None	🔍
<input type="checkbox"/>	90	TOOL_LIST / I18N[toolList.default.BUTTON]	Normal	None	🔍
<input type="checkbox"/>	100	ACTIVITIES / I18N[activities.default.BUTTON]	Group	None	🔍
<input type="checkbox"/>	110	REPORTS / I18N[reports.default.BUTTON]	Group	None	🔍

HTML Viewer Configuration in ME

Configure POD

6. Select Insert New

Button Details ?

* Button Sequence: * Button Location:

* Button Type: Start New Button Row:

* Button ID:

▲ Button Label:

Button Size (%):

▲ Image Icon:

Hotkey:

Insert New Insert Before Insert After Remove Selected Remove All

<input type="checkbox"/>	* Activity Sequence	* Activity	Clears SFC
<input type="checkbox"/>	<input type="text" value="10"/>	<input type="text" value="CT510"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="20"/>	<input type="text" value="CHG_EQUIP_STATUS"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="30"/>	<input type="text" value="PR555"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="40"/>	<input type="text" value="CREATE_MESS_PLUGIN"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="50"/>	<input type="text" value="LOG_COMMENT"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="60"/>	<input type="text" value="PR550"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="70"/>	<input type="text" value="SFC_DATA_ENTRY"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="80"/>	<input type="text" value="SU520"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="90"/>	<input type="text" value="SU530"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="100"/>	<input type="text" value="DC550"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="text" value="110"/>	<input type="text" value="CNN WEBSITE"/>	<input type="checkbox"/>

HTML Viewer Configuration in ME

Configure POD

7. Select the HTML_Viewer_ABC activity in the drop-down in the new row
8. Select Apply

Hotkey: None ▾

Insert New **Insert Before** **Insert After** **Remove Selected** **Remove All**

<input type="checkbox"/>	20	CHG_EQUIP_STATUS	<input type="checkbox"/>
<input type="checkbox"/>	30	PR555	<input type="checkbox"/>
<input type="checkbox"/>	40	CREATE_MESS_PLUGIN	<input type="checkbox"/>
<input type="checkbox"/>	50	LOG_COMMENT	<input type="checkbox"/>
<input type="checkbox"/>	60	PR550	<input type="checkbox"/>
<input type="checkbox"/>	70	SFC_DATA_ENTRY	<input type="checkbox"/>
<input type="checkbox"/>	80	SU520	<input type="checkbox"/>
<input type="checkbox"/>	90	SU530	<input type="checkbox"/>
<input type="checkbox"/>	100	DC550	<input type="checkbox"/>
<input type="checkbox"/>	110	CNN_WEBSITE	<input type="checkbox"/>
<input type="checkbox"/>	120	CHET_MII_HTTP	<input type="checkbox"/>
<input type="checkbox"/>	130	<input type="text"/>	<input type="checkbox"/>

HTML Viewer Configuration in ME

Configure POD

9. Select Save
10. Select the Layout tab
11. Select the icon in the Other Plug-Ins column for panel B

POD Maintenance

Retrieve Save Clear Delete

Record changed

* Site: MOUTRI

* Type: Operation

* POD: OPERATION_CUST

Main Buttons Layout List Options POD Selection Printers Custom Data

* Layout Type: 3 Panel Horizontal Layout (with Popover)

POD Selection

A

B C D

Panel	Type	Default Plug-In	Other Plug-Ins
POD Selection	Fixed	PS_OPERATION_2ROW	
A	Fixed	WORKLIST_DISPLAY	
B	Fixed		
C	Fixed		
D	Popover		
	Popup		

HTML Viewer Configuration in ME

Configure POD

12. Select Insert New
13. Select the HTML_VIEWER_ABC activity in the browse in the new row
14. Select Apply

Other Plug-In Details ?

Insert New **Insert Before** **Insert After** **Remove Selected** **Remove All**

<input type="checkbox"/> * Activity Sequence	* Activity
<input type="checkbox"/> 10	CHET_MII_HTTP <input type="button" value="copy"/>
<input type="checkbox"/> 20	<input type="text"/> <input type="button" value="copy"/>

HTML Viewer Configuration in ME

Configure POD

13. Select Save

POD Maintenance

Retrieve Save Clear Delete

* Site: MOUTRI
* Type: Operation
* POD: OPERATION_CUST

Main Buttons Layout List Options POD Selection Printers Custom Data

* Layout Type: 3 Panel Horizontal Layout (with Popover)

POD Selection

A

B C D

Panel	Type	Default Plug-In	Other Plug-Ins
POD Selection	Fixed	PS_OPERATION_2ROW	
A	Fixed	WORKLIST_DISPLAY	🔍
B	Fixed		🔍
C	Fixed		🔍
D	Popover		🔍
	Popup		🔍

Example of Viewer in ME

Example of HTML Viewer in ME

Open Viewer

Using HTML Viewer Plug-in

For this example, the HTML Viewer has been made available under the Activities button in an ME POD. To use the HTML Viewer:

1. Open the POD
2. Select the Activities button
3. Select HTML Viewer ABC

The screenshot displays the 'Production Operator Dashboard: Site - MOUTRI, User - I821951'. Below the header is a 'POD Selection' section with input fields for 'Operation', 'Resource', and 'SFC', along with 'Completed Qty: 0' and 'Nonconformed Qty: 0'. A row of action buttons includes 'Start', 'Complete', 'Sign Off', 'Work Instruction', 'Assemble', 'DC Collect', 'Log NC', 'NC Tree', 'Tool List', 'Activities...', and 'Reports...'. The 'Activities...' button is circled in red, and its dropdown menu is open, showing various options. The 'HTML Viewer ABC' option at the bottom of the menu is also circled in red. Below the buttons is a 'POD Work List' table with columns for SFC, Material, Qty, Priority, Operation Start, and Shop Order.

SFC	Material	Qty	Priority	Operation Start	Shop Order

Example of HTML Viewer in ME

Open Viewer

The contents from the destination will be displayed in the HTML Viewer plug-in in the designated panel in the POD

Production Operator Dashboard: Site - MOUTRI, User - I821951

POD Selection

* Operation: * Resource:
SFC:

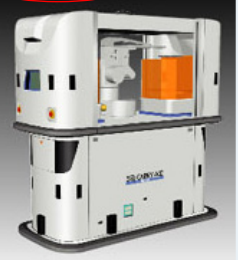
Completed Qty: 0
Nonconformed Qty: 0

Start Complete Sign Off Work Instruction Assemble DC Collect Log NC NC Tree Tool List Activities... Reports...

POD Work List

SFC	Material	Qty	Priority	Operation Start	Shop Order	Status	Complete Pending

HTML VIEWER



Close

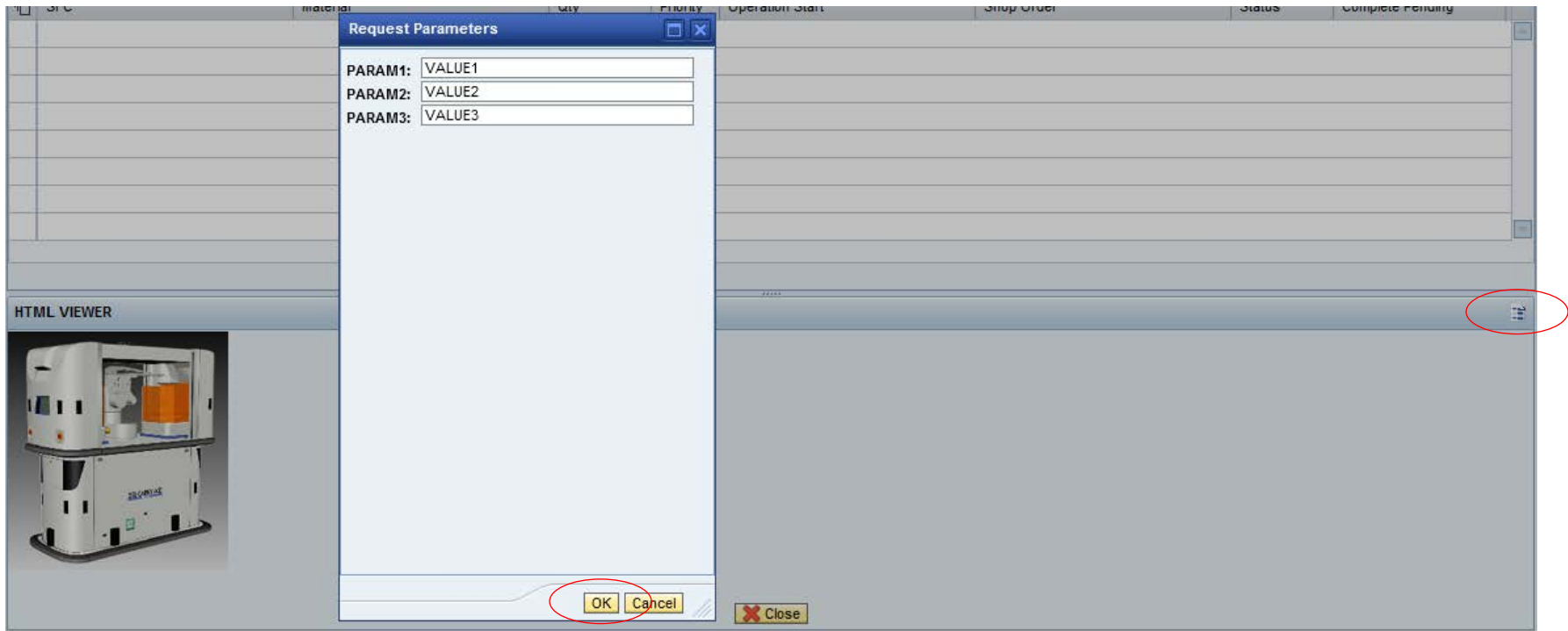
Example of HTML Viewer in ME

Change Parameters

Once the HTML Viewer plug-in is open, the user can change the request parameter values. The new values will take effect at the next polling refresh, or immediately if no polling.

To change the parameter values:

1. Click on the icon at the right end of the header for the HTML Viewer plug-in
2. Change values as needed and select OK



More Information

For more information on the SAP ME HTML Viewer, refer to the SAP ME How-To-Guide – Printing in the SAP ME Wiki on SCN at:

<http://wiki.sdn.sap.com/wiki/display/ME/Home>

Select “How-To-Guides” under Additional Resources



Thank you

Contact information:

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