



Introduction

Workload Manager (WLM) is a key component of the z/OS operating system. WLM provides dynamic workload management within a single z/OS system or across multiple images within a Parallel Sysplex environment. Since the introduction of a goal-oriented workload management you are able to define, view, install, and active WLM service policies using the ISPF-based WLM Administrative Application (AA).

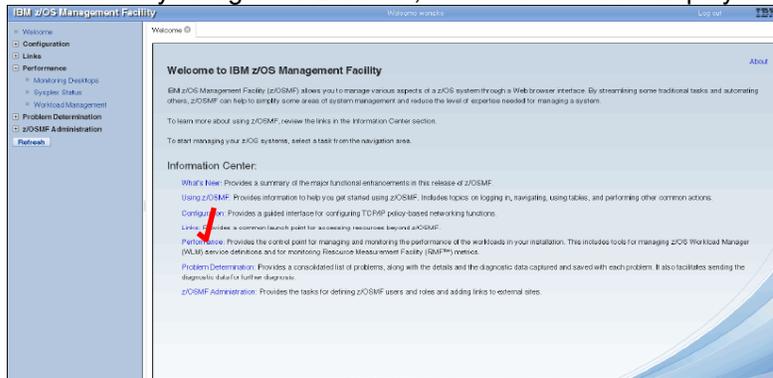
With the introduction of a Workload Management task in z/OS' Management Facility (z/OSMF) V1R12, you are able to use an additional interface to work with your WLM policies. z/OSMF WLM offers you WLM policy creation, editing, merging, and printing. You are also able to review and analyze WLM policies and activate them.

If you want to become more familiar with the concepts of Workload Management in z/OS, consider the *System Programmer's Guide to: Workload Manager, SG24-6472, REDBOOKS*.

- Additional reading:
- #31 zTidBits (z/OS' WLM 101)
 - #32 zTidBits (WAS for z/OS WLM Basics)
 - #53 zTidBits (z/OSMF-NewFace)
 - #76 zTidBits (Cooperative Management & z/OS' WLM)
 - #26 zNibbler (zOS' Workload Manager - closer look)

Entering the Workload Manager application in z/OSMF

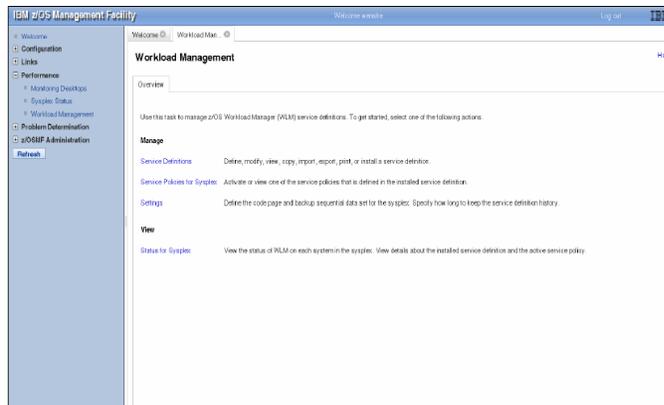
When you log on to z/OSMF, the window shown displays:



z/OSMF Welcome Window

By expanding the **Performance** category in the navigation area, you will see the performance option **Workload Management**. Note: If your user ID is not authorized to access the WLM task, however, you will not see it displayed.

Click the Workload Management task to open the WLM overview pane shown in figure below. The WLM overview pane is the starting point for your WLM related activities within z/OSMF.



WLM Overview Window

On the overview pane you can select one of these actions.

Under the **Manage** section:

- **Service Definitions:** Create, modify, import, export, print, install service definition.
- **Service Policies for Sysplex:** Activate or view the service policies in the service definition that is currently installed in the WLM couple data set.
- **Settings:** Specify history length, code page, user preferences.

Under the **View** section:

- **Status for Sysplex:** Displays information about the service definition installed in the WLM couple data set and the service policy active in the sysplex.

continued



Service Definitions table

When you select **Service Definitions** under **Manage** on the WLM overview pane, (see previous illustration), the Service Definitions pane displays. The Service Definitions table on the Service Definitions pane displays WLM service definitions that have been created with z/OSMF WLM, that have been imported from files or data sets, or that are currently installed in the WLM couple data set. Therefore, you will see at least the Service Definition, which is currently installed for the Sysplex in which z/OSMF is running.

Name	Description	Activity	Sysplex	Messages	Last Modified (GMT)	Modify
TESTR1	Ready's Import Test from New OS			Error	Feb 16, 2016 2:41:59 PM	edit
WLMDEF (Installed & Active)	Sample WLM Service Definition		FLR008	Error	Feb 16, 2016 2:41:59 PM	edit
WLMDEF	Policy from Frank			Warning	Mar 10, 2016 7:35:11 AM	edit

This figure displays a **Service Definitions** table that contains the installed service definition and two other service definitions have been created with z/OSMF WLM.

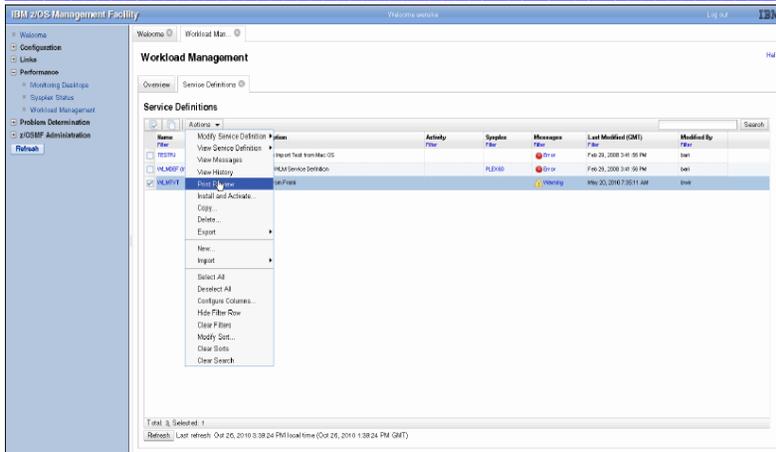
Service Definitions Table

WLM service definitions that are displayed in the Service Definitions table are stored in a repository integrated in the z/OSMF file system. The repository – synchronizes - automatically with the WLM couple data set. When the Service Definitions pane is launched or refreshed, z/OSMF checks if the service definition currently installed in the WLM couple data set is contained in the Service Definitions table. If it is not, z/OSMF extracts the service definition automatically, displays it in the Service Definitions table, and marks it with the label *Installed*. Furthermore, the service definition that contains the service policy currently used by z/OS WLM to manage the system/sysplex is marked with the label *Active*. If the installed service definition and the service definition used to manage the system/sysplex are identical, the corresponding service definition is marked with the label *Installed & Active*.

The service definitions table also shows if messages exist for a service definition, and if a service definition is being viewed or edited by users.

Service definitions can be imported from host data sets or workstation files in XML format into the Service Definitions table. Before you can import an existing service definition created with the WLM Administrative Application, you have to check if it is stored in a sequential data set in XML format. If it is not, such as if the service definition is stored in a partitioned data set as ISPF tables, you have to open the service definition with the WLM Administrative Application and save it in a sequential data set in XML format. That sequential data set can then be imported into the Service Definitions table. Service Definition files created with the WLM Service Definition Editor tool that are stored on the workstation can be directly imported into the Service Definitions table. You are also able to export service definitions to a host data set or a workstation file in XML or CSV format.

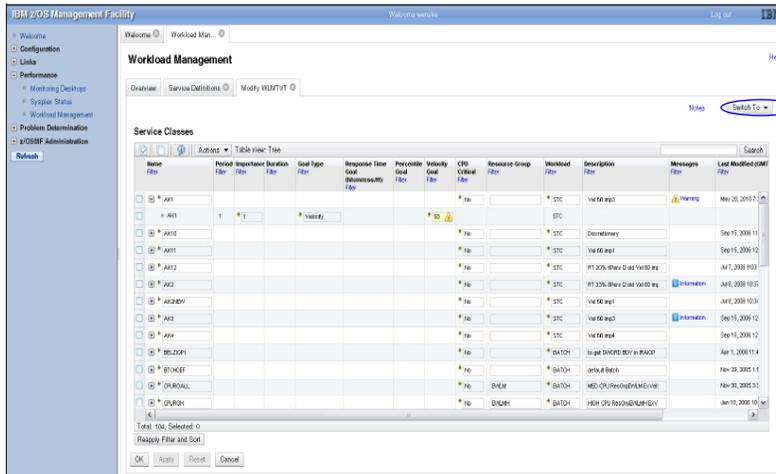
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This figure displays the **Actions** menu allowing you to export, import, view, edit, create, and copy a service definition. You can also install, activate, and print service definitions.

Actions for Service Definitions Table

Policy editing

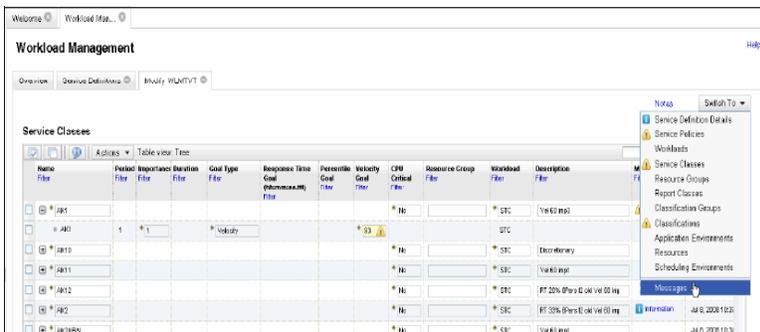


When you select the **Modify Service Definition** or **View Service Definition** action, a new tab will open with the selected service definition as shown here.

Service Classes Table

Service definition items or elements of the same type are displayed in one table. The user can switch to another section of the service definition using the **Switch to** menu (see upper right of pane).

If service definition items contain child items, the tables are tree tables where the parent items can be collapsed or expanded. For example, in the table with service classes, service class items can be expanded to make the periods visible. Tables and tree tables can be filtered and sorted. For tree tables the user can switch also to a flat table representation which provides additional sort capabilities. Policy elements can be directly edited within tables by double-clicking in the cells.



Recommendations are displayed automatically as you edit policy elements. Selecting **Messages** in the **Switch to** menu as shown on left opens the Messages table.



Service definition history

By selecting a service definition and clicking **Actions View History**, you are able to display the history pane for this service definition as shown here. A history is provided for each service definition listing the activities performed on the service definition. The history contains edit, install, activate, import, and export activities.

The screenshot shows the IBM Z/OS Management Facility interface. The left sidebar contains navigation options like Welcome, Configuration, Links, Performance, Monitoring Dashboards, Sysplex Status, Workload Management, Problem Determination, z/OSMF Administration, and Troubleshooting. The main content area is titled 'Workload Management' and has tabs for Overview, Service Definitions, Status for Sysplex, and History WLMNTVT (which is circled in red). Below the tabs is a table titled 'History for WLMNTVT' showing a list of activities performed on the service definition. The table has columns for 'System', 'Action', 'File', 'Date and Time (GMT)', and 'User ID'. The data rows are as follows:

System	Action	File	Date and Time (GMT)	User ID
P/E/R/0	Activate service definition	WLMNTVT	Oct 20, 2010 7:30:03 PM	weslako
P/E/R/0	Install z/OSMF couple data set		Oct 20, 2010 7:30:04 PM	weslako
	Modify		Oct 20, 2010 7:35:15 PM	weslako
	Import from local workstation		Oct 20, 2010 9:12:38 PM	weslako

At the bottom of the table, it says 'Total: 4' and 'Refresh: Last refresh: Oct 20, 2010 9:06:46 PM local time (Oct 20, 2010 7:06:46 PM GMT)'. There is also a search bar in the top right of the table area.

For each activity, the history entries display the time stamp and the user who performed the activity. You can customize on the **Settings pane** how long the history entries are kept.

Service Definition History
