z/OS 3.1 IBM Education Assistant

Solution Name: z/OSMF WLM Policy Advisor

Solution Element(s): z/OSMF Workload Management

July 2023

Agenda

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- Interactions & Dependencies
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Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.
- Additional Trademarks:
  - None.

Objectives

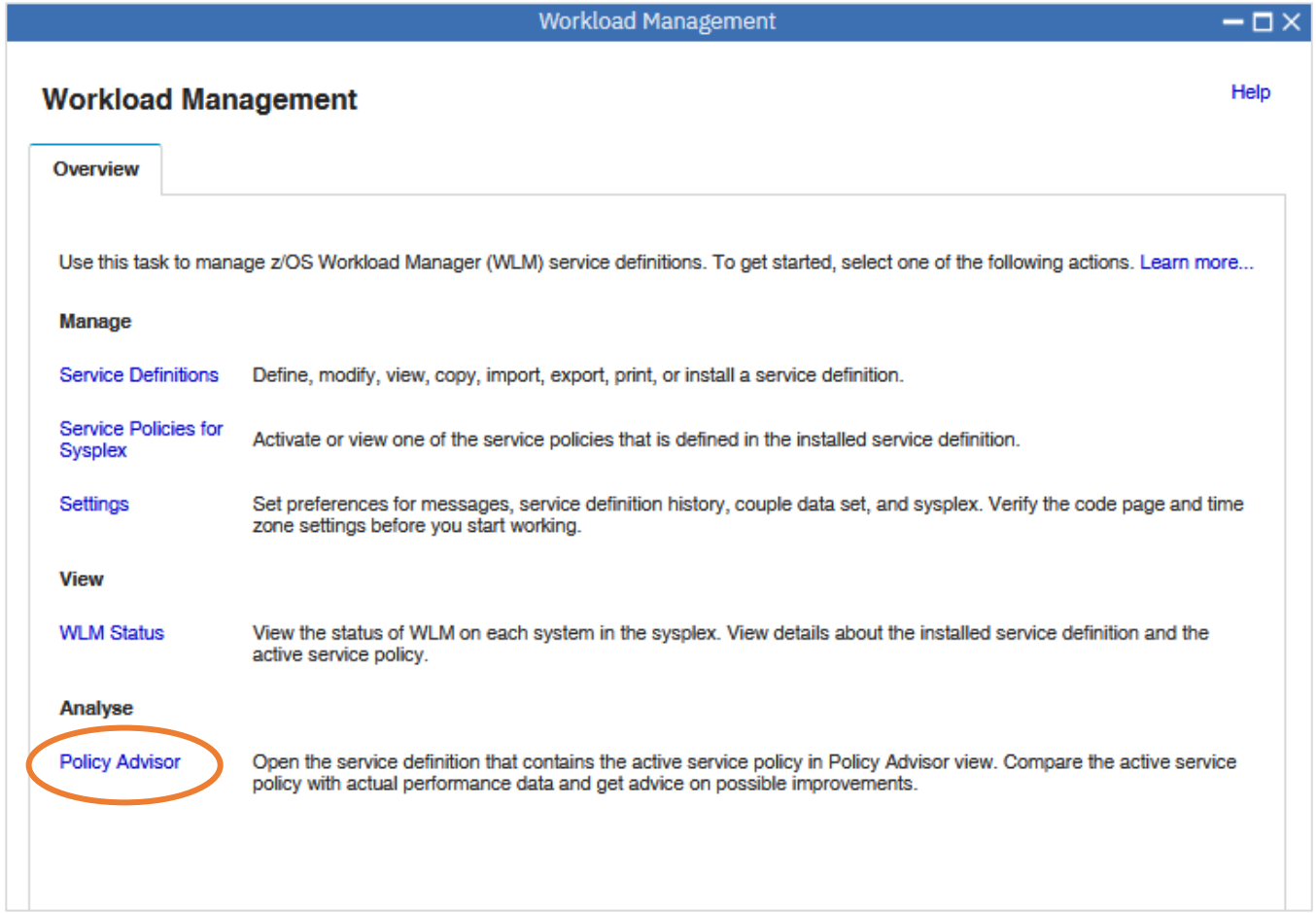
- New function in z/OSMF Workload Management to examine a WLM service definition
- Uses SMF type 72 subtype 3 performance data to analyze the quality of a WLM policy and visualize possible weaknesses

Overview

- Who (Audience)
  - z/OS system programmers looking to simplify the definition of their WLM policy and adapt it to challenging performance situations
- What (Solution)
  - New z/OSMF view launched from z/OSMF WLM takes selected WLM Service Definition and visualizes key SMF 72 performance data
  - Examines selected WLM policy and analyses possible weaknesses based on the SMF data
- Wow (Benefit / Value, Need Addressed)
  - The z/OSMF WLM Policy Advisor assists with proactive problem determination and prevention, and therefore supports the simplification of the WLM policy definition task

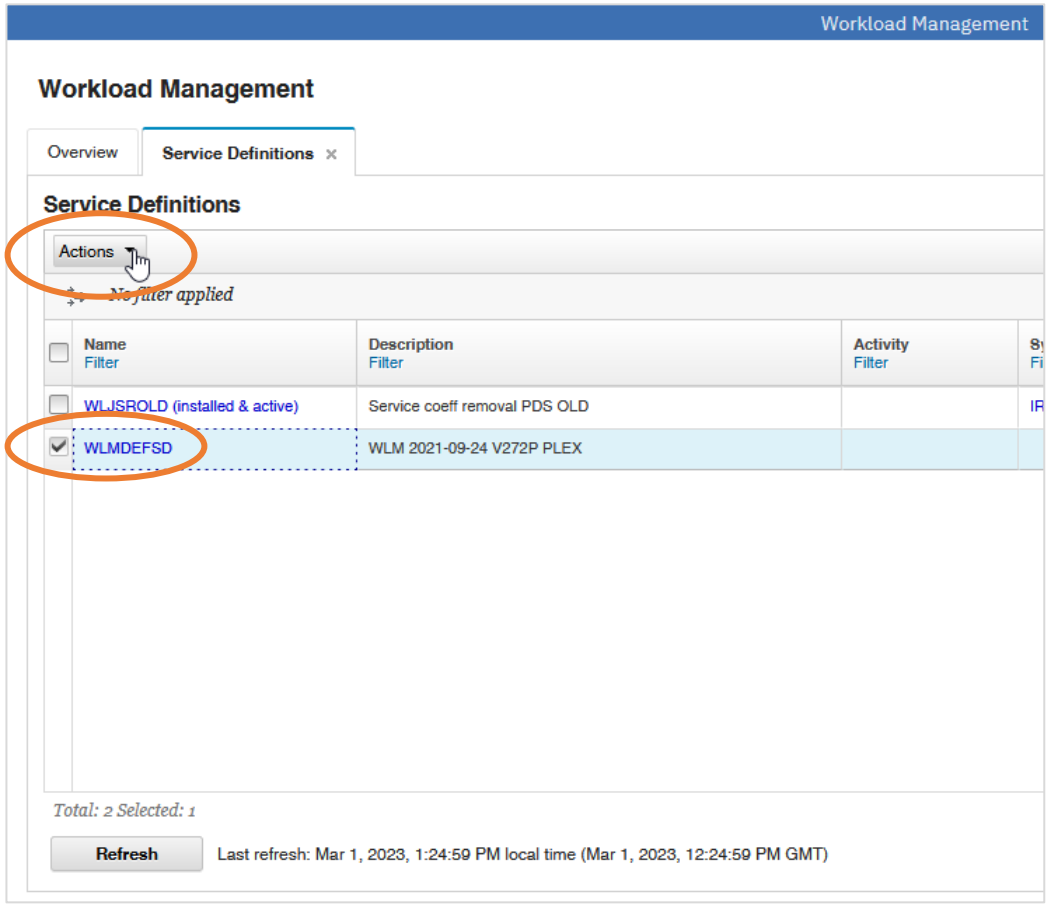
Usage & Invocation: Invocation (1 of 3)

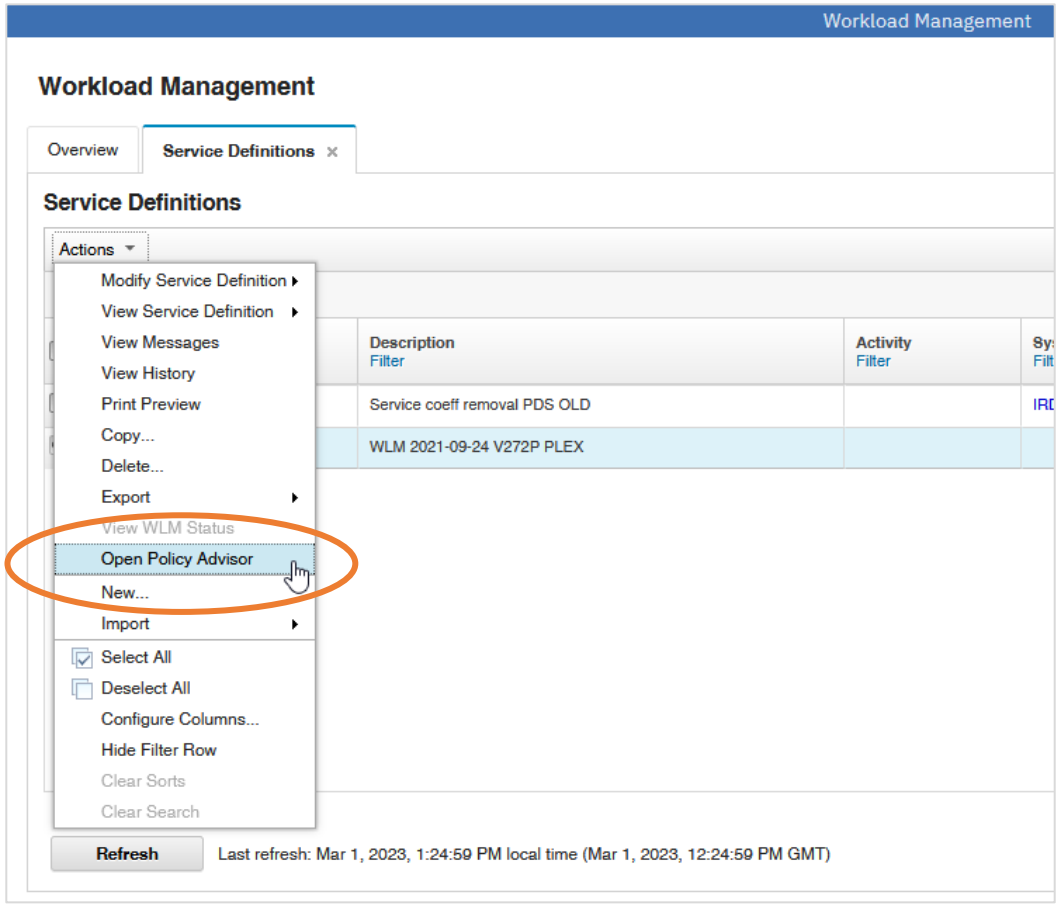
- Invoke a new Policy Advisor view from the z/OSMF Workload Management task:
  Click “Policy Advisor” at the bottom of the Overview panel to start a new Policy Advisor view with the currently installed service definition



Usage & Invocation: Invocation (2 of 3)

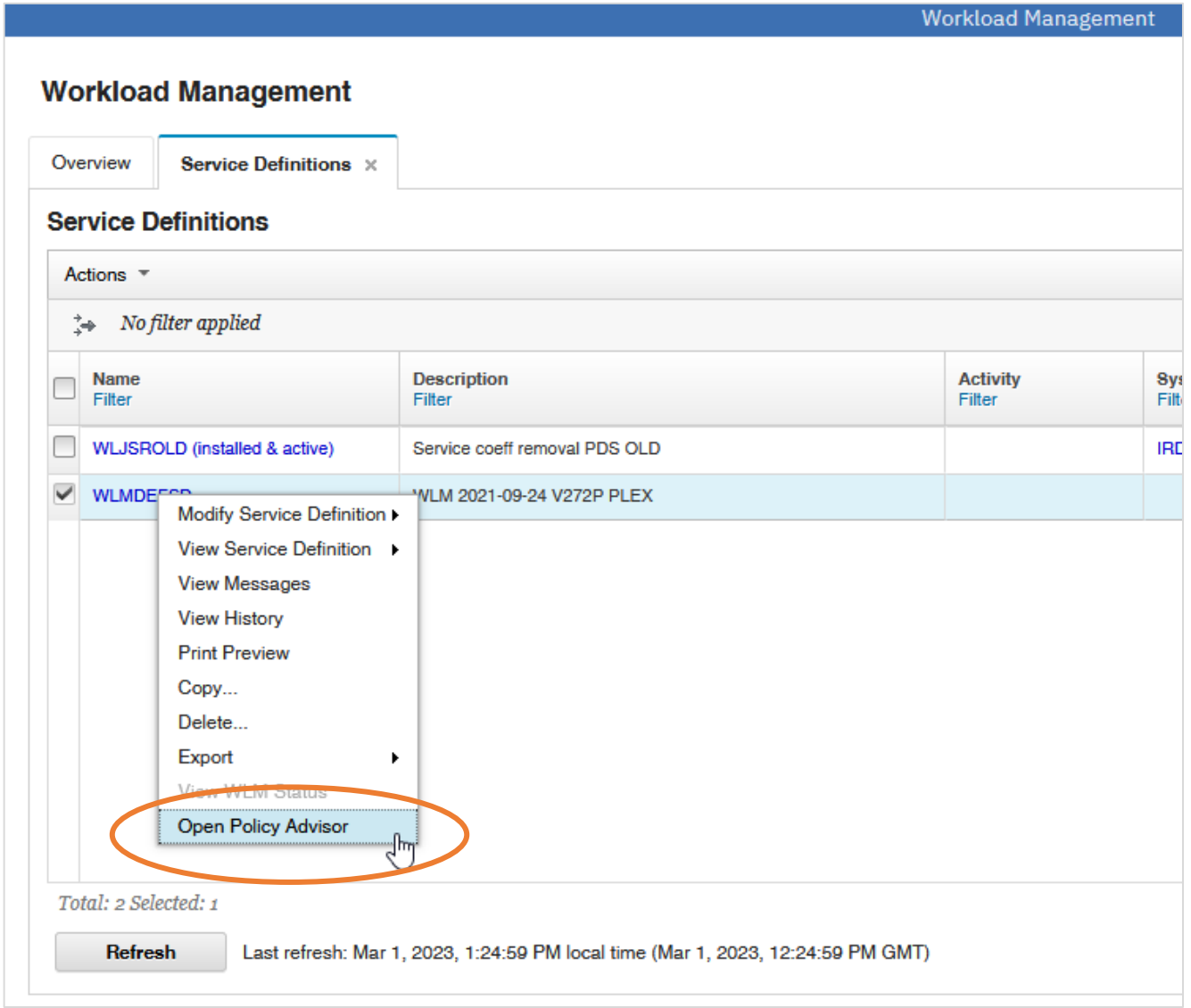
- Invoke a new Policy Advisor view from the z/OSMF Workload Management task: Select the WLM service definition you want to examine and select the new action “Open Policy Advisor”





Usage & Invocation: Invocation (3 of 3)

- Invoke a new Policy Advisor view from the z/OSMF Workload Management task:
  Right click on the WLM service definition you want to examine and select the new action "Open Policy Advisor"



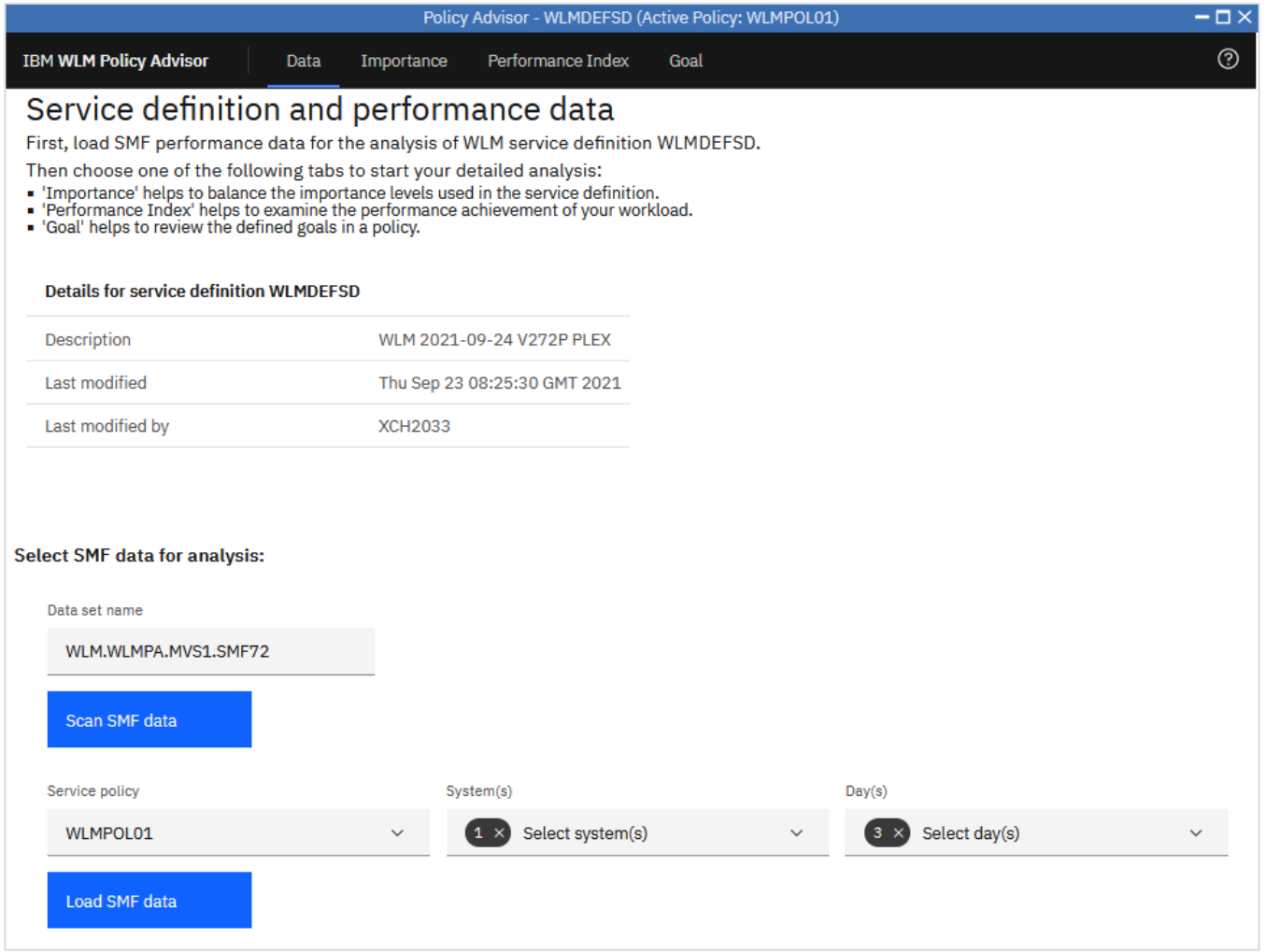
Usage & Invocation: Data

- On the Data panel of the Policy Advisor, load the SMF type 72 subtype 3 performance data you want to use for the analysis of the selected WLM service definition

General introduction to the Policy Advisor

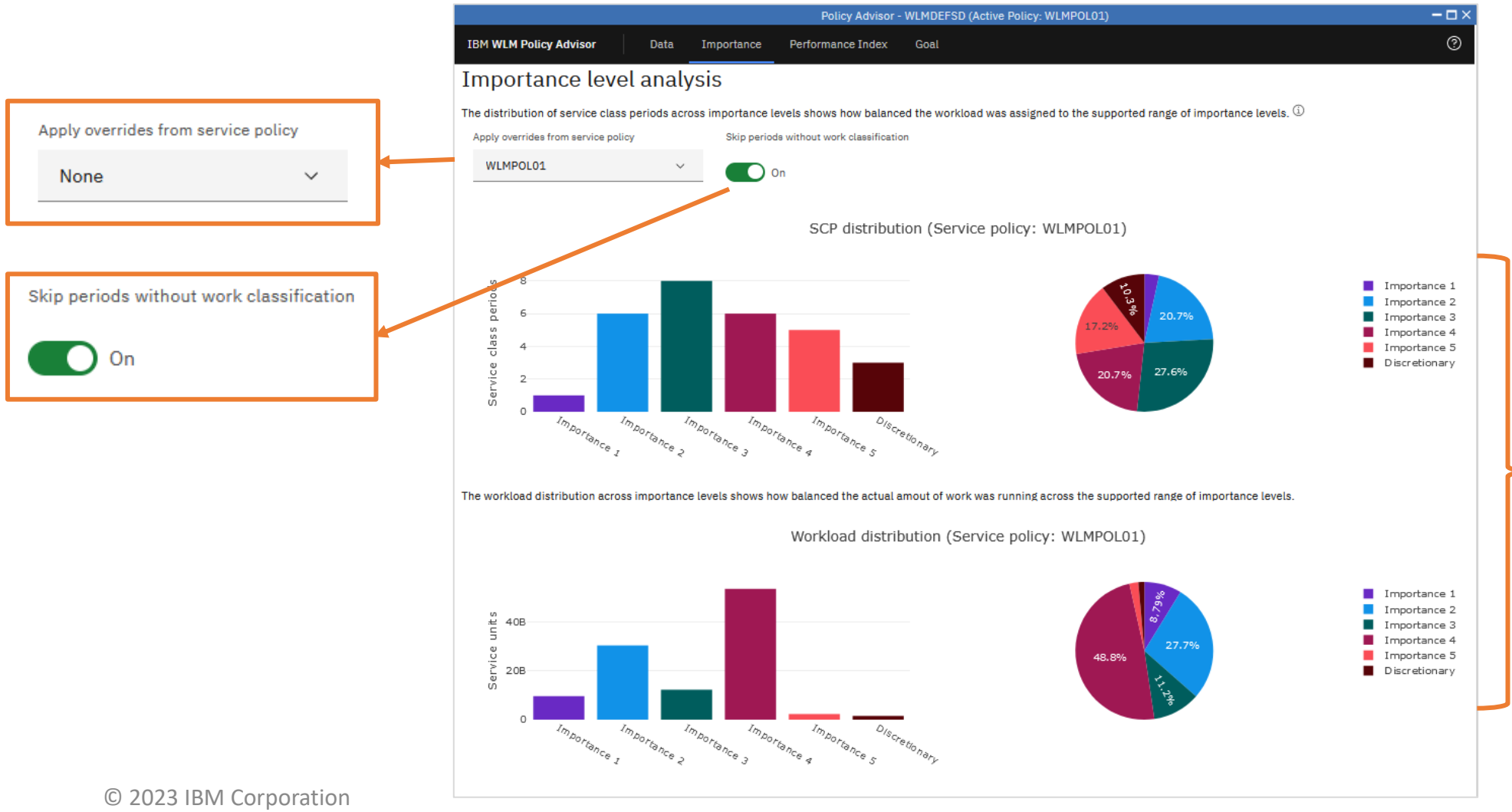
Information about the selected WLM service definition

Here you can provide a data set with SMF 72.3 data and select the data for analysis



Usage & Invocation: Importance

- On the Importance panel of the Policy Advisor, examine the distribution of service class periods and workload across importance levels:

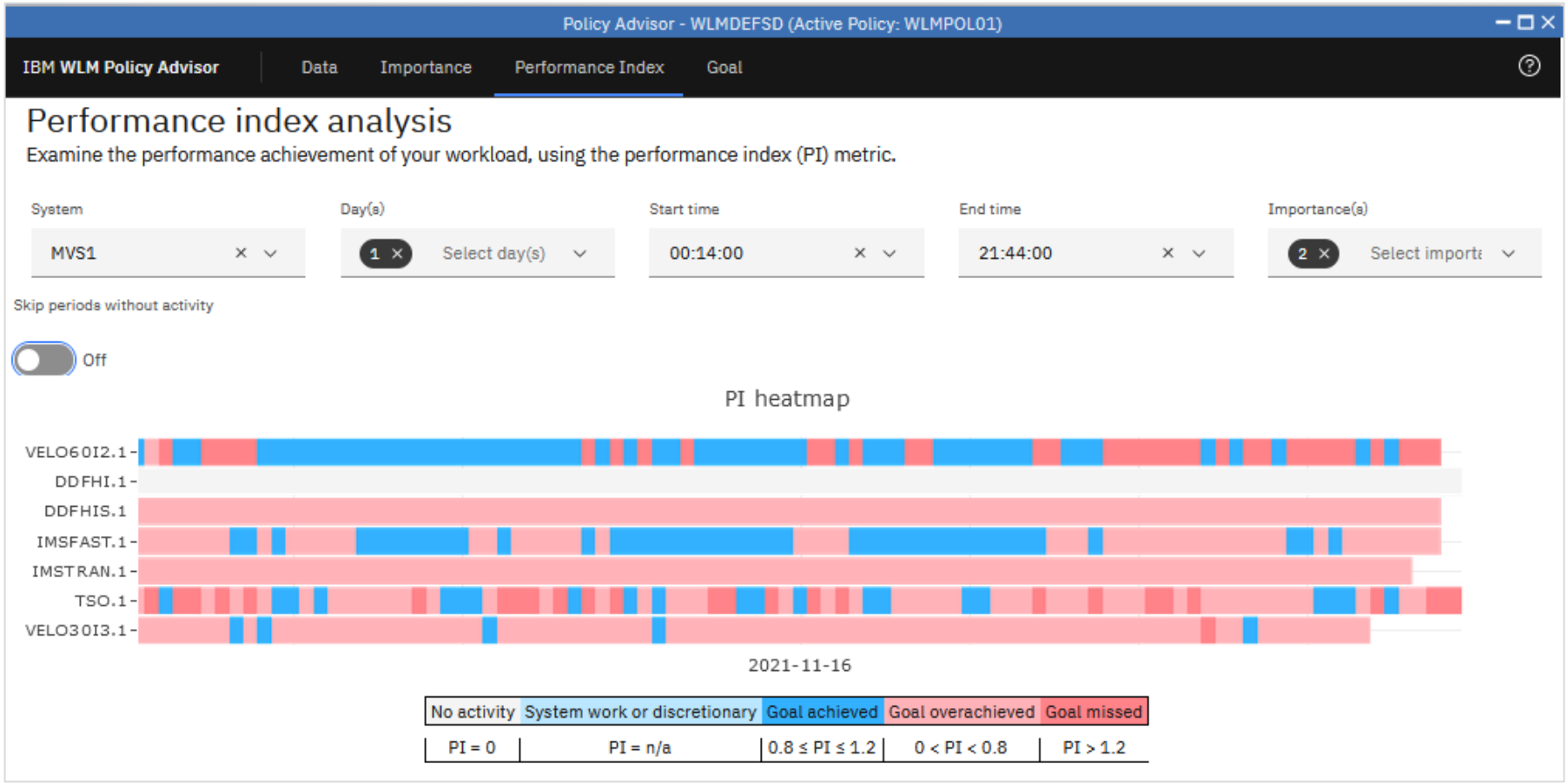


Charts that show distribution of:

- Service class periods across importance levels
- Workload across importance levels

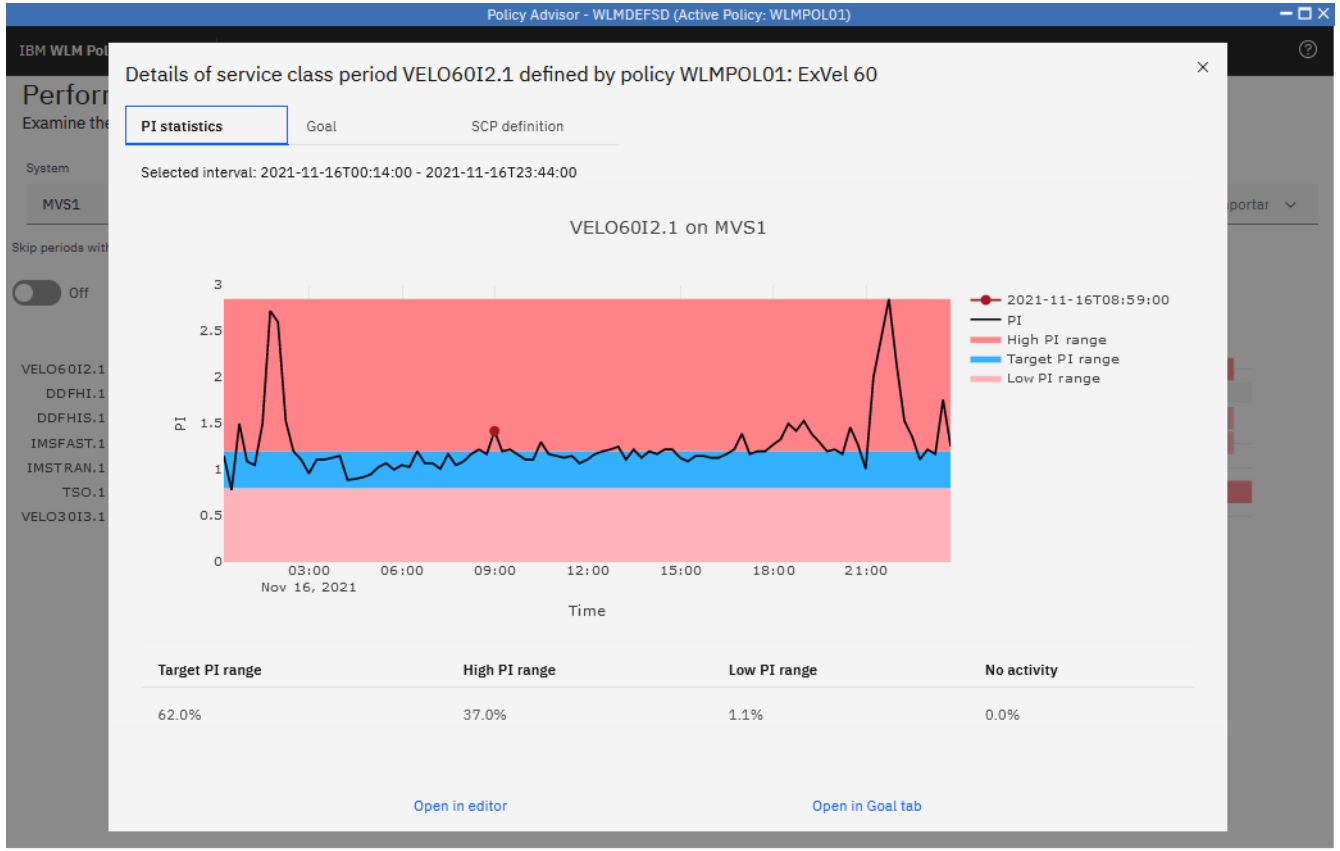
Usage & Invocation: Performance Index (1 of 2)

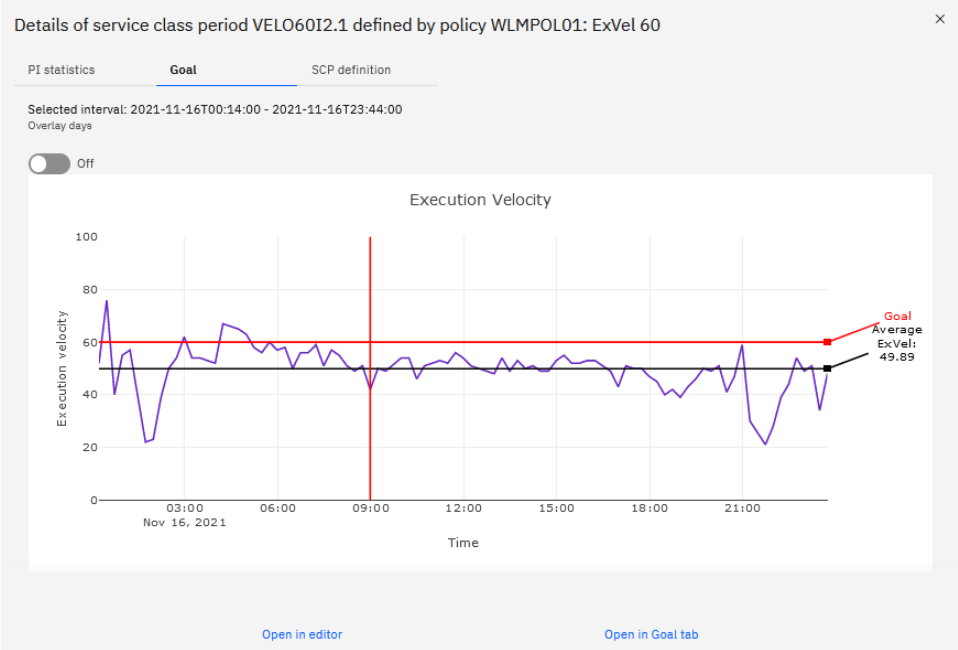
- On the Performance Index panel of the Policy Advisor, examine how service classes are performing over time. Filter by time and importance to investigate the performance of your workload. Click on any colored tile within the heatmap to drill down…

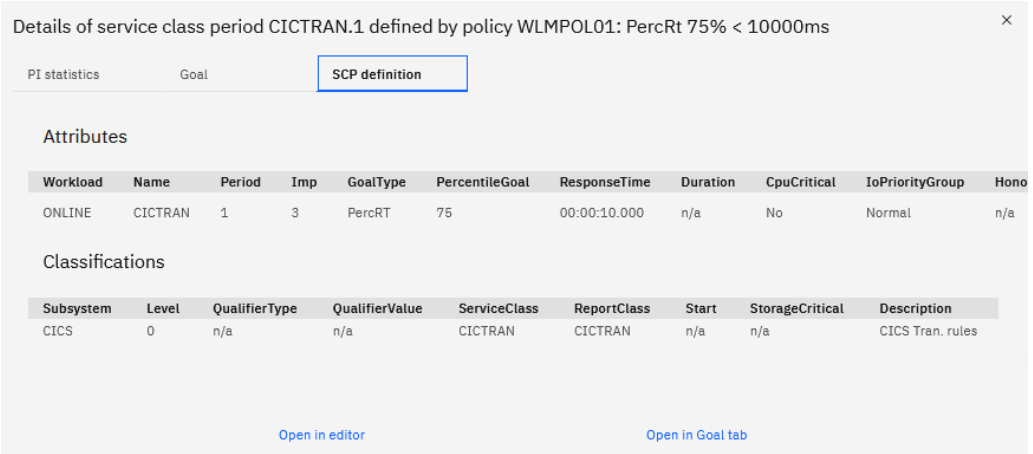


Usage & Invocation: Performance Index (2 of 2)

…and get further information about performance index and goal fulfillment. Click on “Open in editor” to jump back to the z/OSMF WLM task, in case you want to modify this service class.

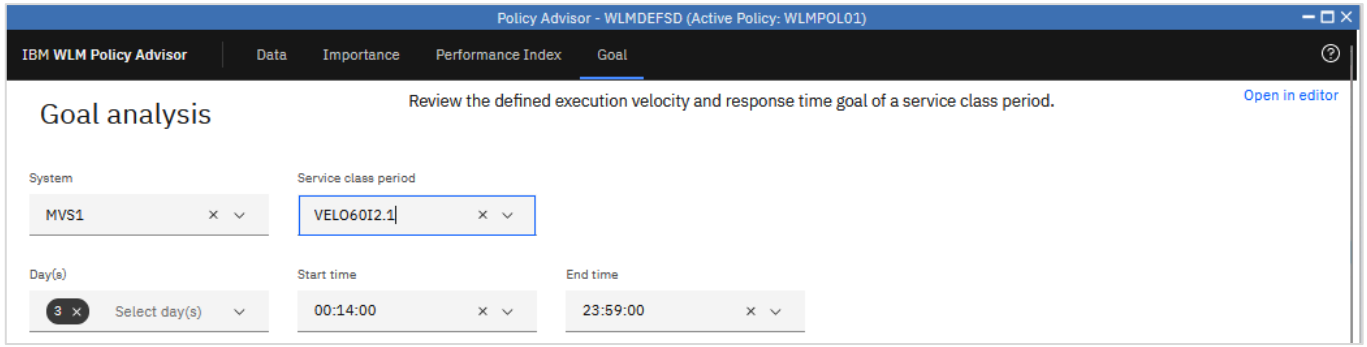


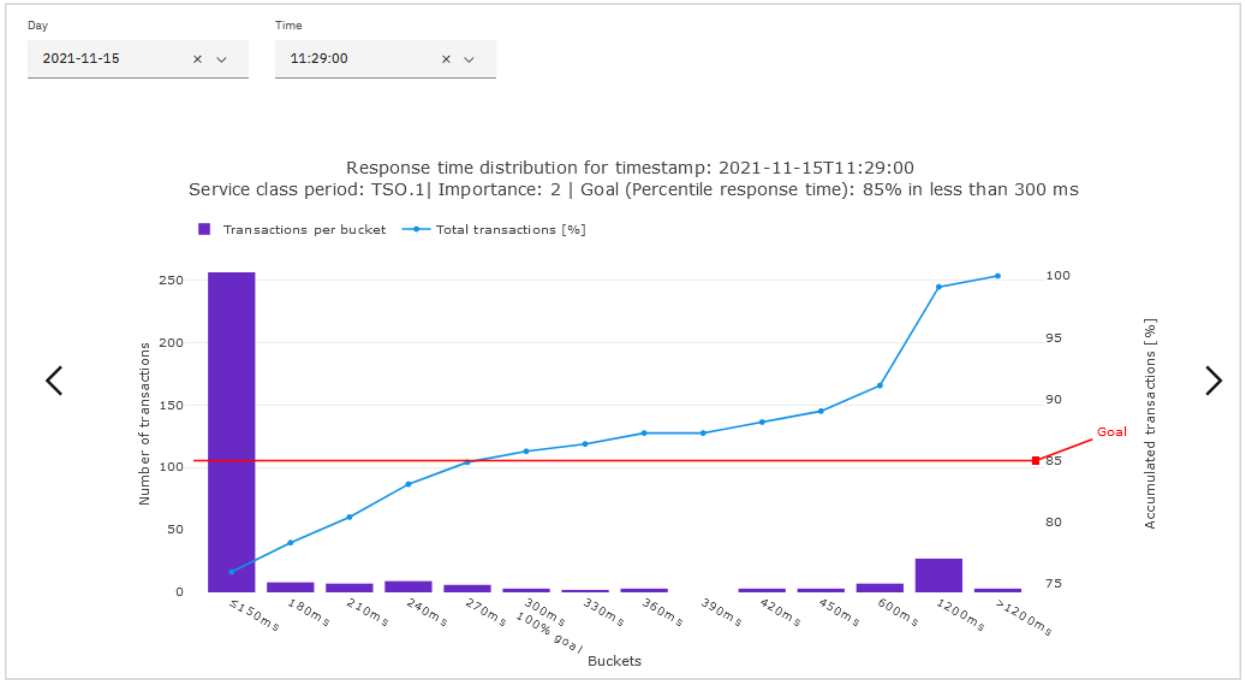


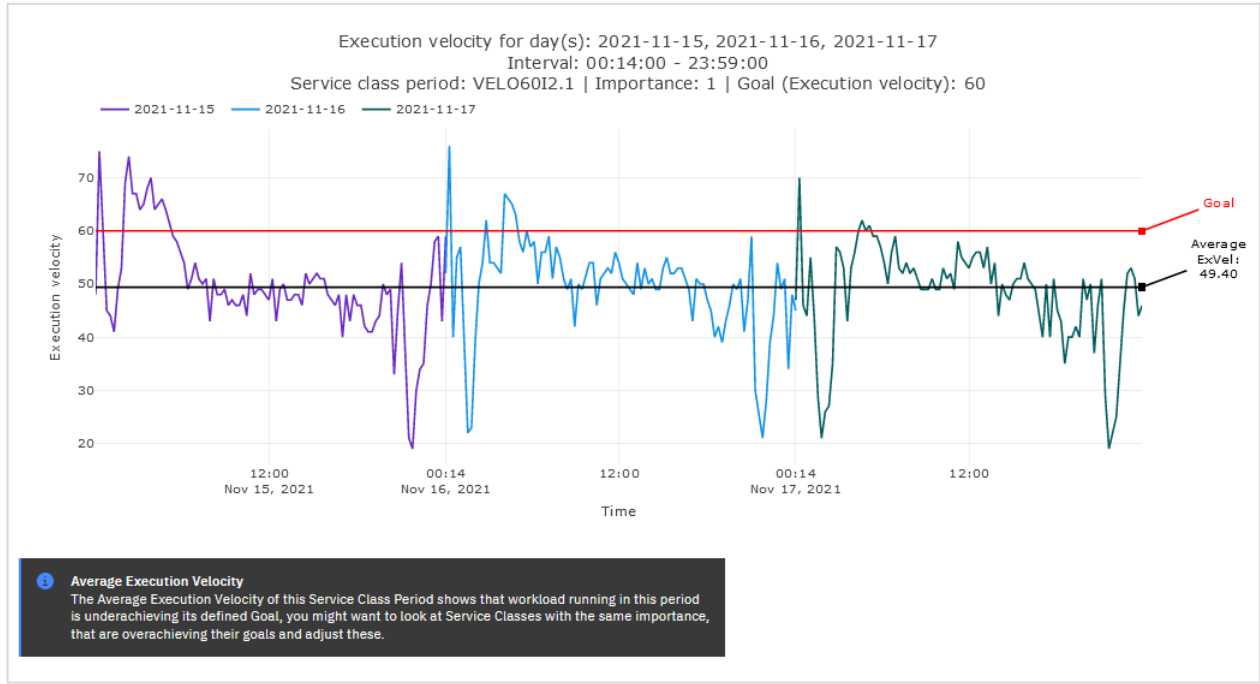


Usage & Invocation: Goals

- On the Goals panel of the Policy Advisor, examine individual service class periods and how well they perform. Filter to get detailed insights into goal fulfillment for different goal types on interval level







Interactions & Dependencies

- Software Dependencies
  - None.
- Hardware Dependencies
  - None.
- Exploiters
  - None.

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level: No.

Installation & Configuration

- None.

Summary

- The z/OS 3.1 enhancement “z/OSMF WLM Policy Advisor” has been introduced.
- This functionality can be invoked from the z/OSMF Workload Management task and examines the selected WLM service definition.
- It helps a z/OS system programmer to analyze the quality of a WLM policy based on key SMF 72 performance data.

Appendix

- Book updates
  - IBM z/OS Management Facility Online Help