z/OS 3.2 IBM Education Assistant

Solution Name: z/OSMF WLM Policy Advisor enhancements

Solution Element(s): z/OSMF Workload Management

July 2025



Agenda

- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
- Installation & Configuration
- Summary
- Appendix

Trademarks

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

Objectives

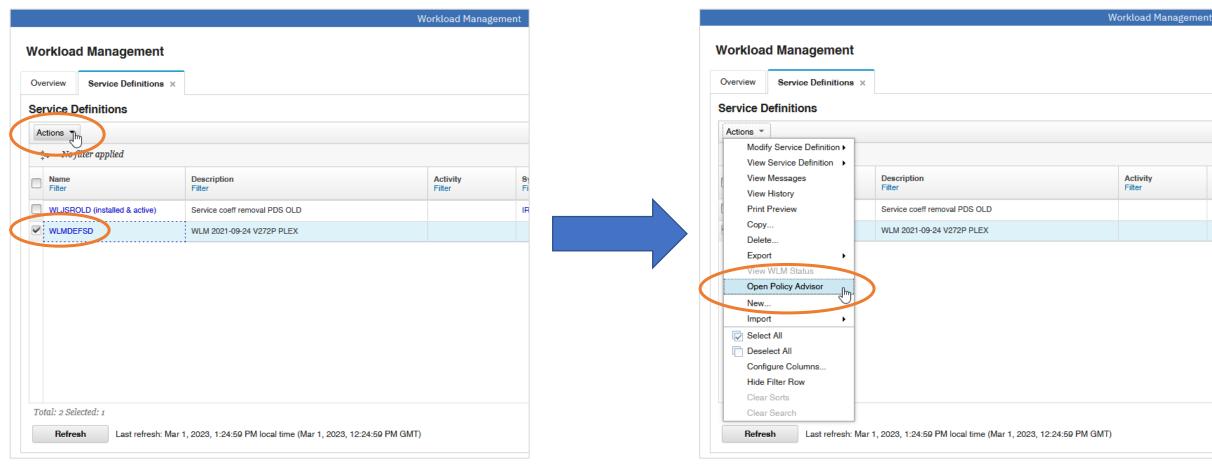
- The WLM Policy Advisor uses SMF type 72 subtype 3 performance data to analyze the quality of a WLM policy and visualize possible weaknesses.
- Enhancements to the existing z/OSMF WLM Policy Advisor:
 - Improved workflow to select and load SMF data.
 - Overview page with summary of all relevant findings. Drill down options are available for detailed analysis.
 - Better user experience with improved navigation and charts to help users understand the findings.
 - **Suggestions** are generated for the analyzed service definition to help improve system performance and resilience.

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)
 - User interface, workflow and analysis capabilities enhancements.
- 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.
 - The enhancements in this release focus on pointing the user to the deficiencies of their WLM service definition.

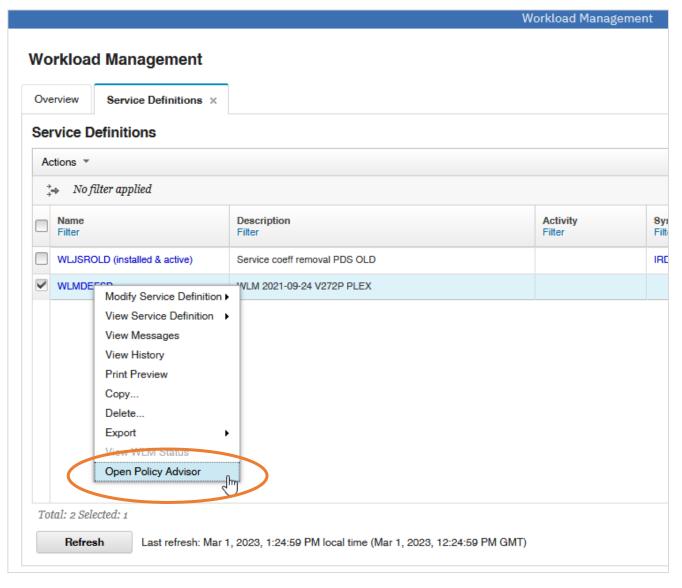
Usage & Invocation: Invocation (1 of 2)

 Invoke a new Policy Advisor view from the z/OSMF Workload Management task: Under "Service Definitions" select the WLM service definition you want to examine and select the action "Open Policy Advisor".



Usage & Invocation: Invocation (2 of 2)

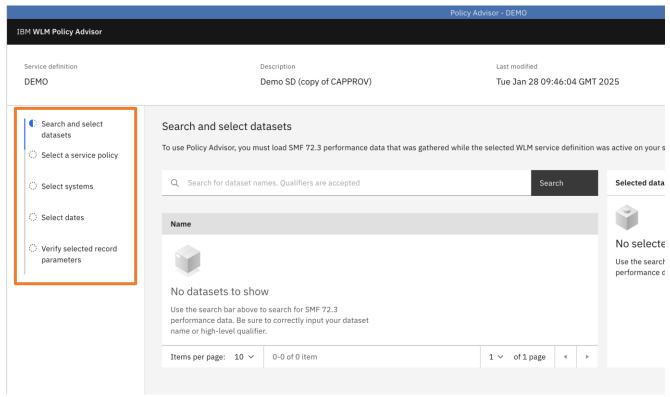
 Invoke a new Policy Advisor view from the z/OSMF Workload Management task: Under "Service Definitions" right click on the WLM service definition you want to examine and select the action "Open Policy Advisor".



Usage & Invocation: SMF data loading (1 of 4)

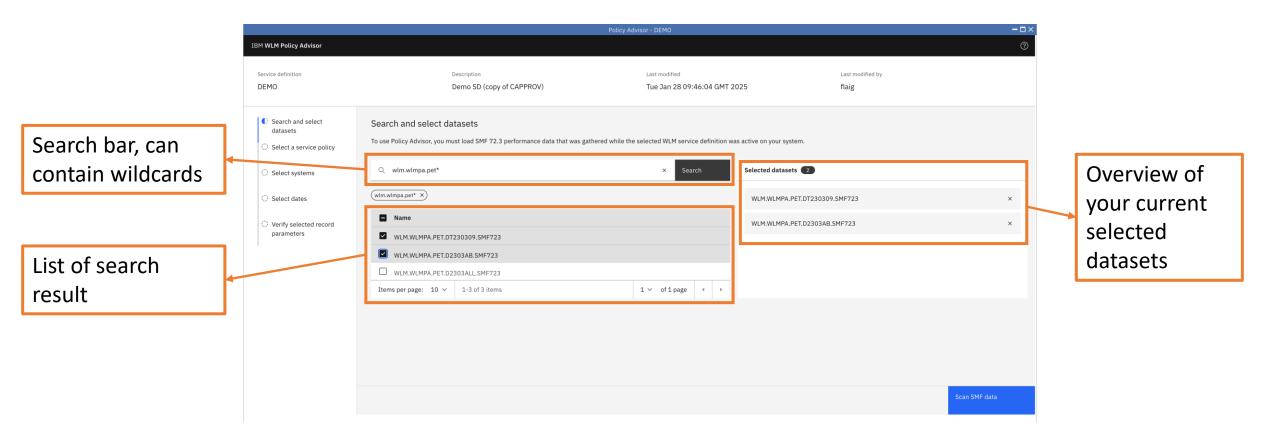
 The new SMF data loading workflow consists of 5 steps:

- 1. Search and select datasets
- 2. Select a service policy
- 3. Select systems
- 4. Select dates
- 5. Verify your selected parameters



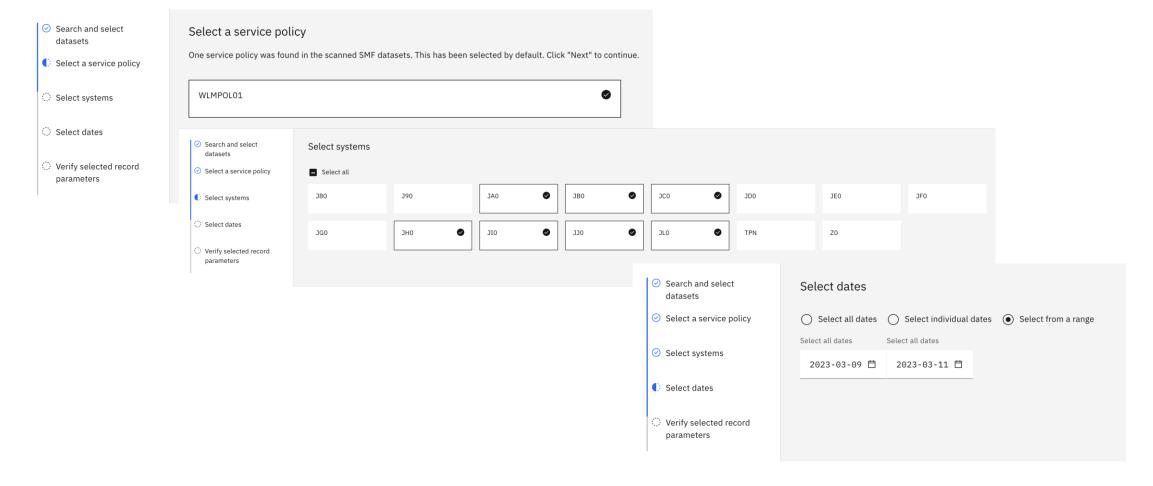
Usage & Invocation: SMF data loading (2 of 4)

• On the "Search and select datasets" step, search for your datasets containing SMF type 72 subtype 3 performance data. From the list of datasets, you can select any number of datasets.



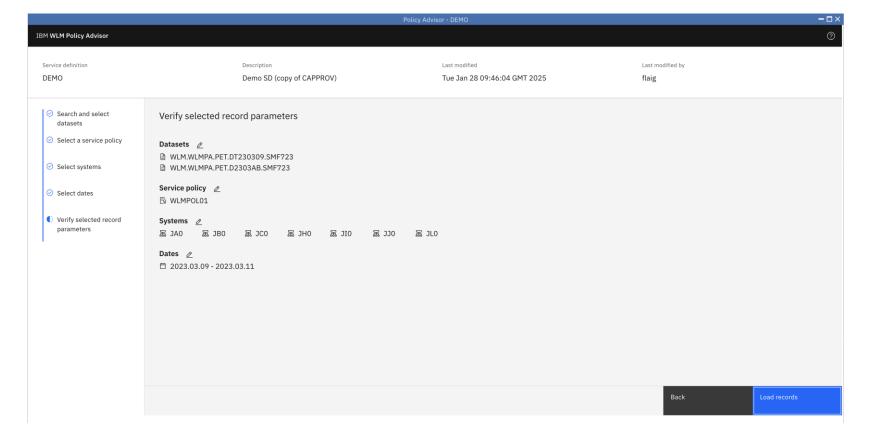
Usage & Invocation: SMF data loading (3 of 4)

• In the next steps, select a service policy, systems and dates for which you want to load SMF data from your selected datasets.



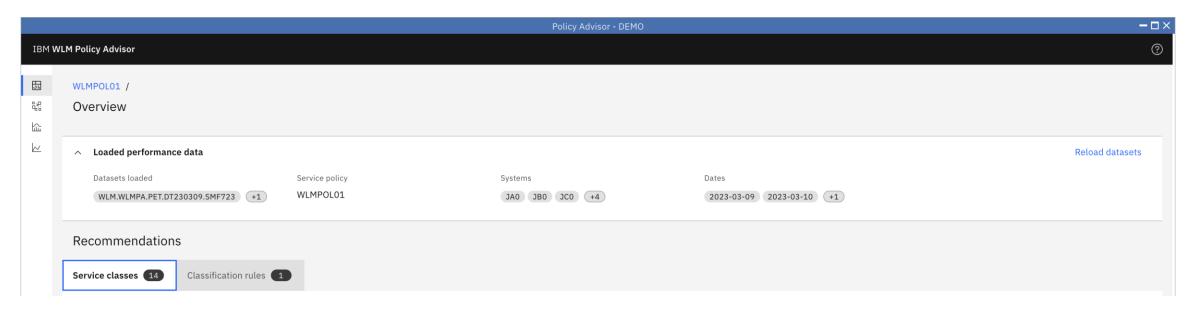
Usage & Invocation: SMF data loading (4 of 4)

- The last step shows a summary of your selection.
- During the whole process you may go back to a previous step and change the selection made.
- After clicking "Load records", SMF type 72 subtype 3 data will be loaded from the selected datasets based on your selection.



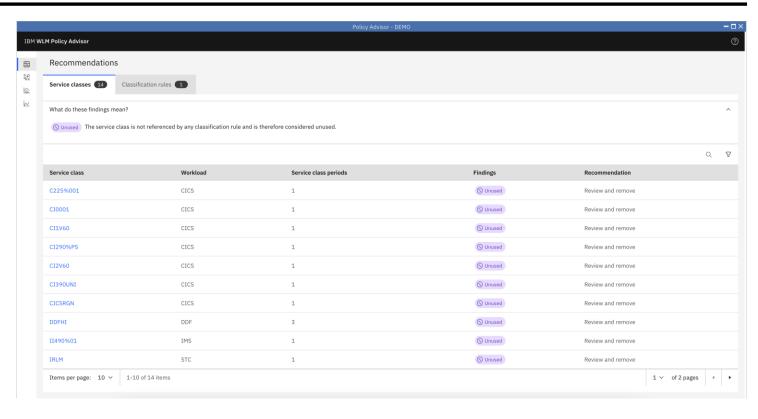
Usage & Invocation: Overview page (1 of 3)

- First page after loading SMF performance data.
- In the upper section it provides information about the loaded SMF performance data.
- The main part of the page shows recommendations for the WLM service definition, presented in various tabs.



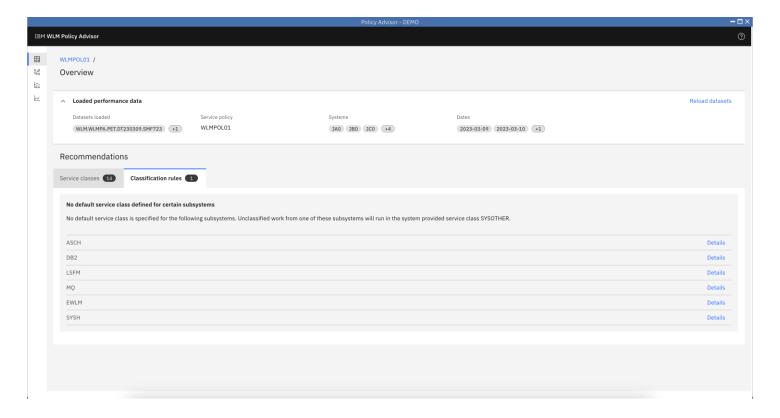
Usage & Invocation: Overview page (2 of 3)

- On the "Service classes" tab a table lists all findings related to service classes.
- Service classes can have various findings:
 - Unused No classification rule classifies work into those service classes.
 - Duplicate One or more periods of this service class are very similar to those of another service class.
 - Periods without activity –
 Periods don't have any service consumption on any system loaded.



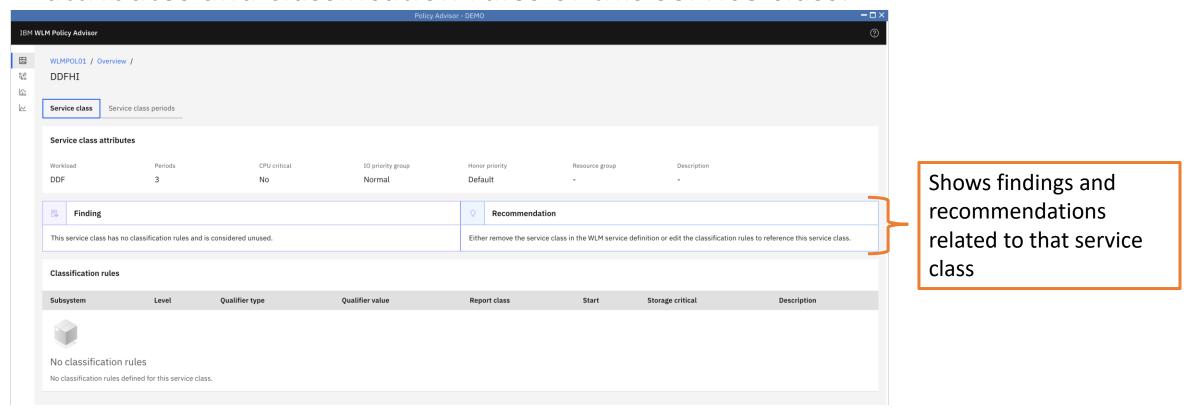
Usage & Invocation: Overview page (3 of 3)

- On the "Classification rules" tab you can see various best practice checks:
 - No default service class defined for a subsystem
 - Workload running in default service class SYSOTHER



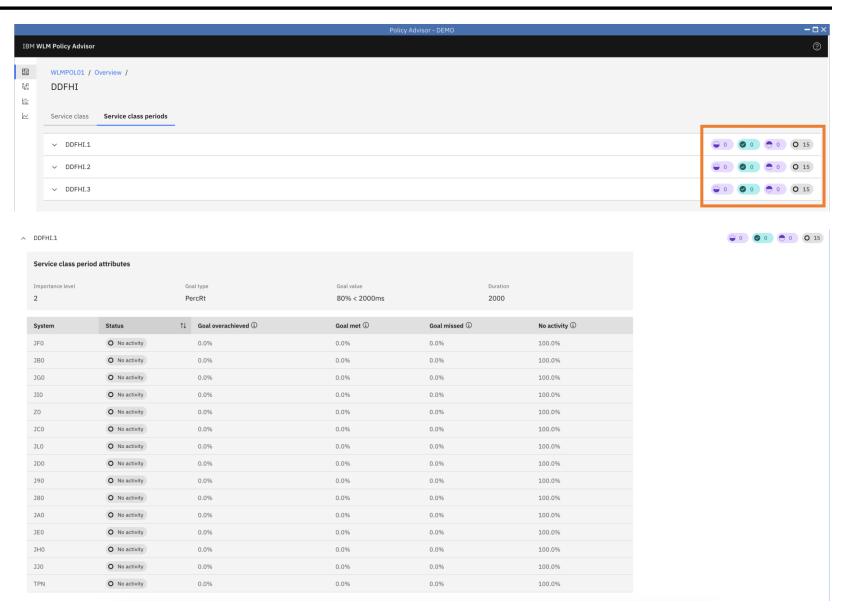
Usage & Invocation: Service class details (1 of 2)

- To get more details about a service class and its periods you can click on the service class name in the table on the services class tab.
- On the service class details page, you then find information about the defined attributes and classification rules of this service class.



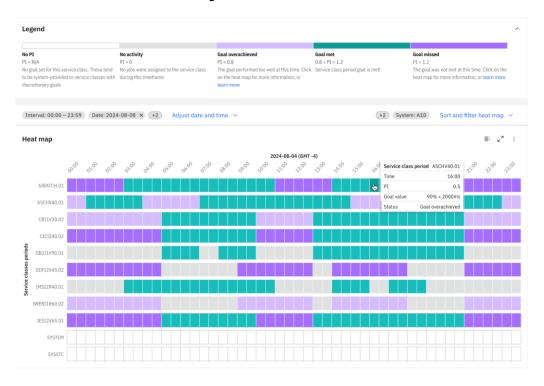
Usage & Invocation: Service class details (2 of 2)

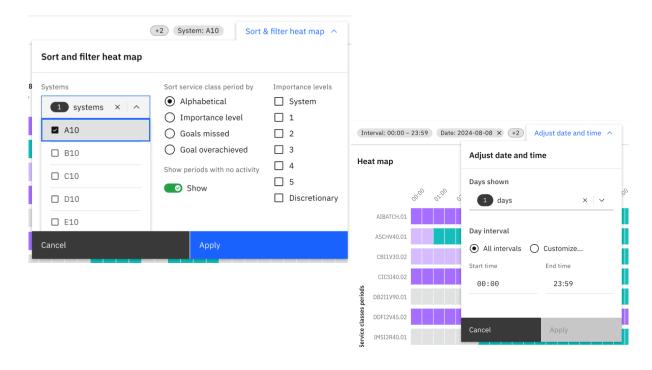
- The "service class periods" tab lists all periods and their status on each system.
- Status is derived from the time a service class period has spent in a certain Pl range.
- Statuses are:
 - Overachieved PI less than 0.8
 - Goal met PI between 0.8 and 1.2
 - Goal missed PI more than
 1.2
 - No activity PI of zero and no usings



Usage & Invocation: Performance Index (1 of 2)

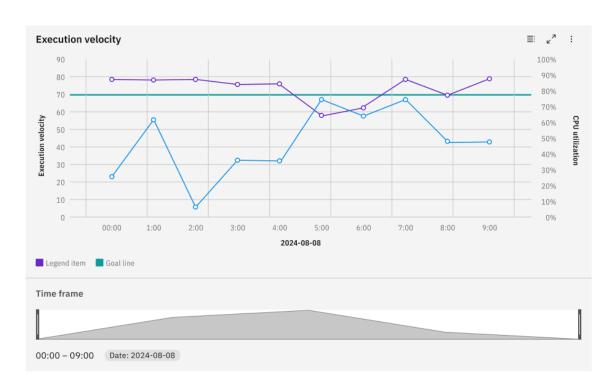
- On the Performance Index panel of the Policy Advisor, examine how service class periods are performing over time. Filter by time, importance and systems to investigate the performance of your workload.
- You can select multiple systems, to compare them directly next to each other.
- Click on any colored tile within the heatmap to drill down ...

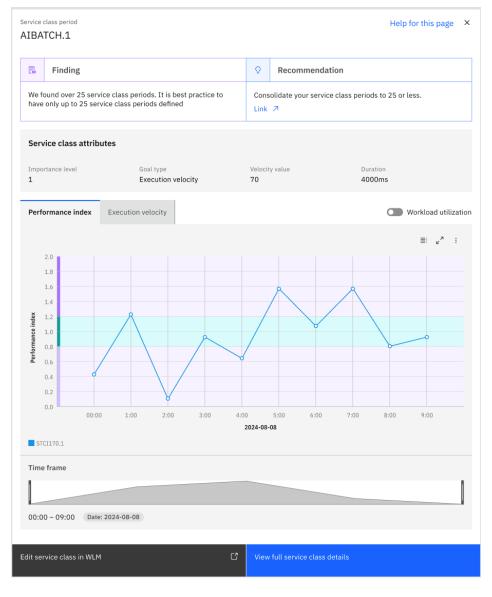




Usage & Invocation: Performance Index (2 of 2)

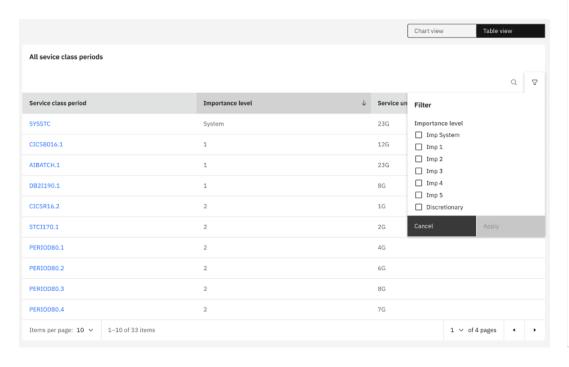
 ... and get further information about performance index and goal fulfillment. Click on "Edit service class in WLM task" to jump back to the z/OSMF WLM task, in case you want to modify this service class.

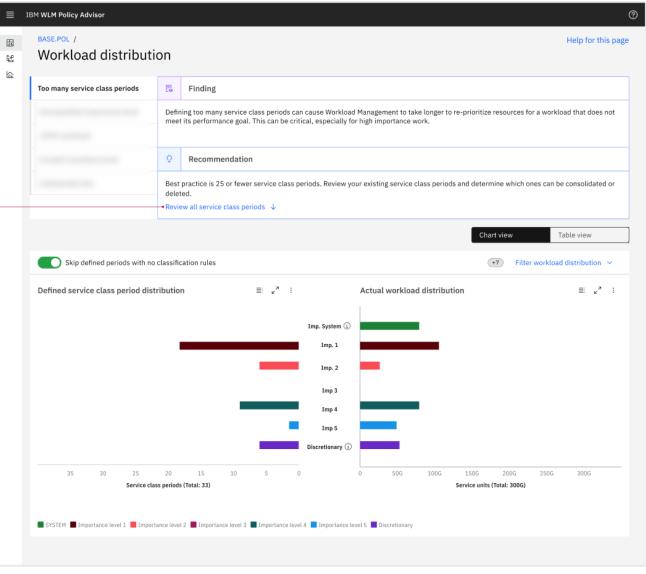




Usage & Invocation: Importance (1 of 2)

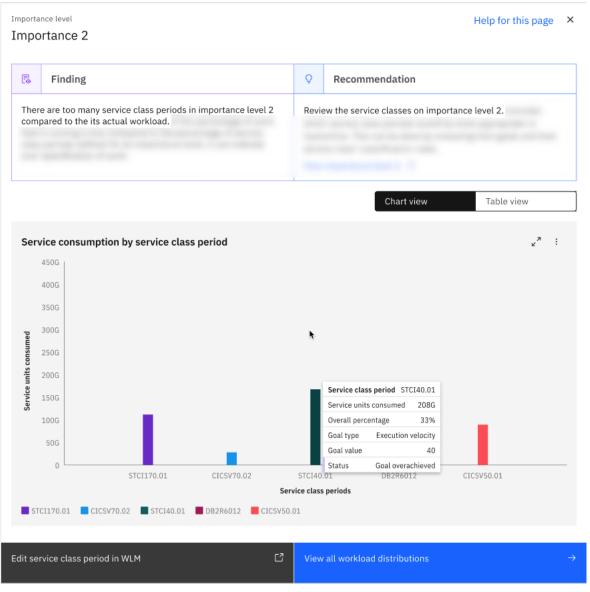
 On the Importance panel of the Policy Advisor, examine the distribution of service class periods and workload across importance levels displayed as chart or table.





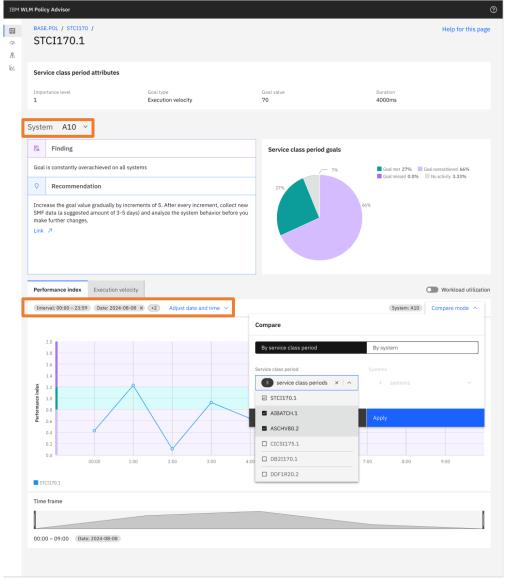
Usage & Invocation: Importance (2 of 2)

 Select an importance level to show the workload distribution across service class periods on that level.



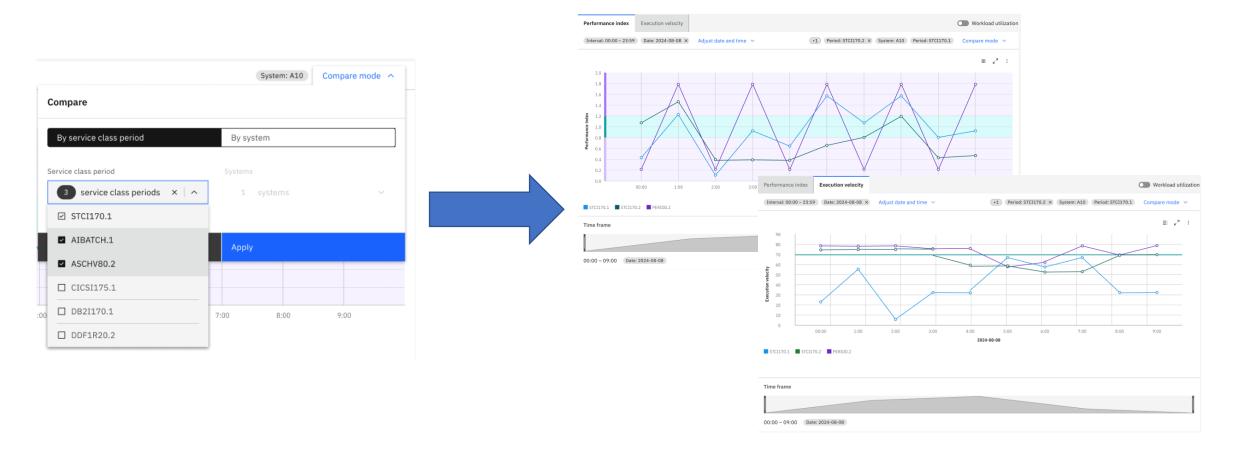
Usage & Invocation: Service class period details (1 of 2)

- On the service class period details panel, examine individual service class periods and their performance.
- Filter by systems or days to get detailed insights into goal fulfillment for different goal types on interval level.



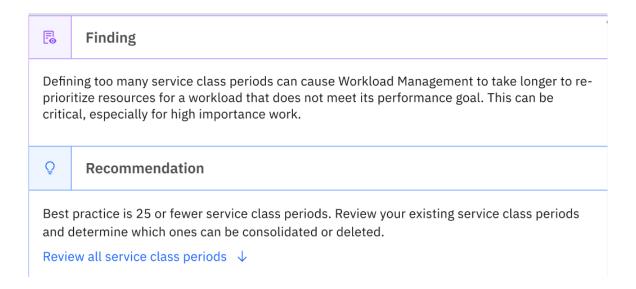
Usage & Invocation: Service class period details (2 of 2)

- Compare how your service class period performs:
 - on other systems
 - against other service class periods on the same system



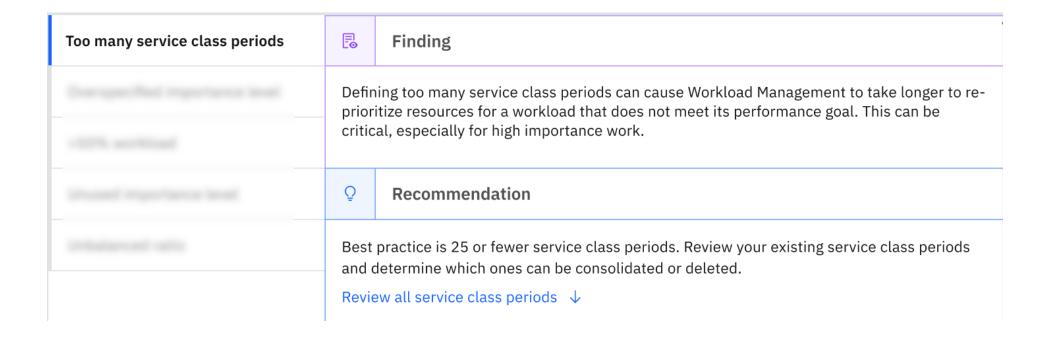
Usage & Invocation: Findings and Recommendations (1 of 2)

- Shows finding and recommendation next to each other.
- Recommendations can contain simple best practices or a step-by-step guide of what else need to be checked before concluding.



Usage & Invocation: Findings and Recommendations (2 of 2)

Multiple findings are divided into tabs.



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

- "z/OSMF WLM Policy Advisor enhancements" has been introduced.
- It showcases the new workflow for loading SMF performance data and the new overview page as a place for all the findings and recommendations.
- Adds new best practices and findings.
- Several improvements made to the UI and user experience for an easier understanding and interaction.
- 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