

Bringing Life Into a Neglected WLM Policy

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Agenda

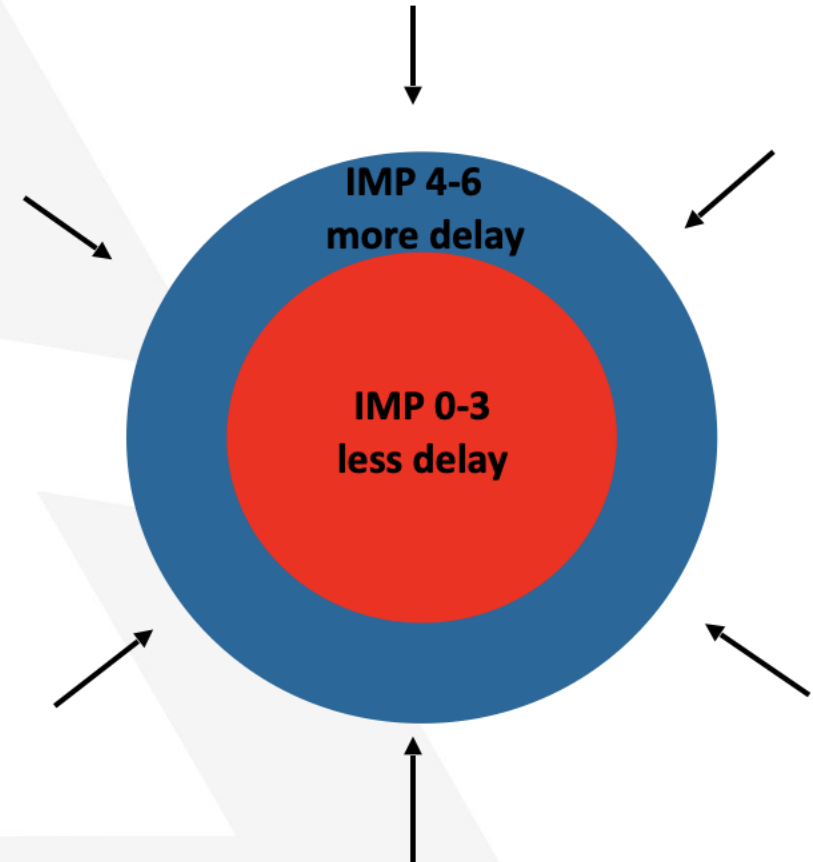
- Why do you need a well tuned WLM policy?
 - How to identify a policy needing attention.
- Tuning Strategy
 - Importance Class Distribution
 - Balancing receiver and donor workloads
- Service Class Consolidation
- Tuning Practices



WHY DOES MAINTAINING A WLM POLICY MATTER?

The Why

- Why does this matter?
 - Finite quantity of system resources.
 - Shortages will happen.
 - High processor utilization and capping.
 - Not all workload is equal.
 - Less importance workloads must be delayed to allow more important workloads to execute.

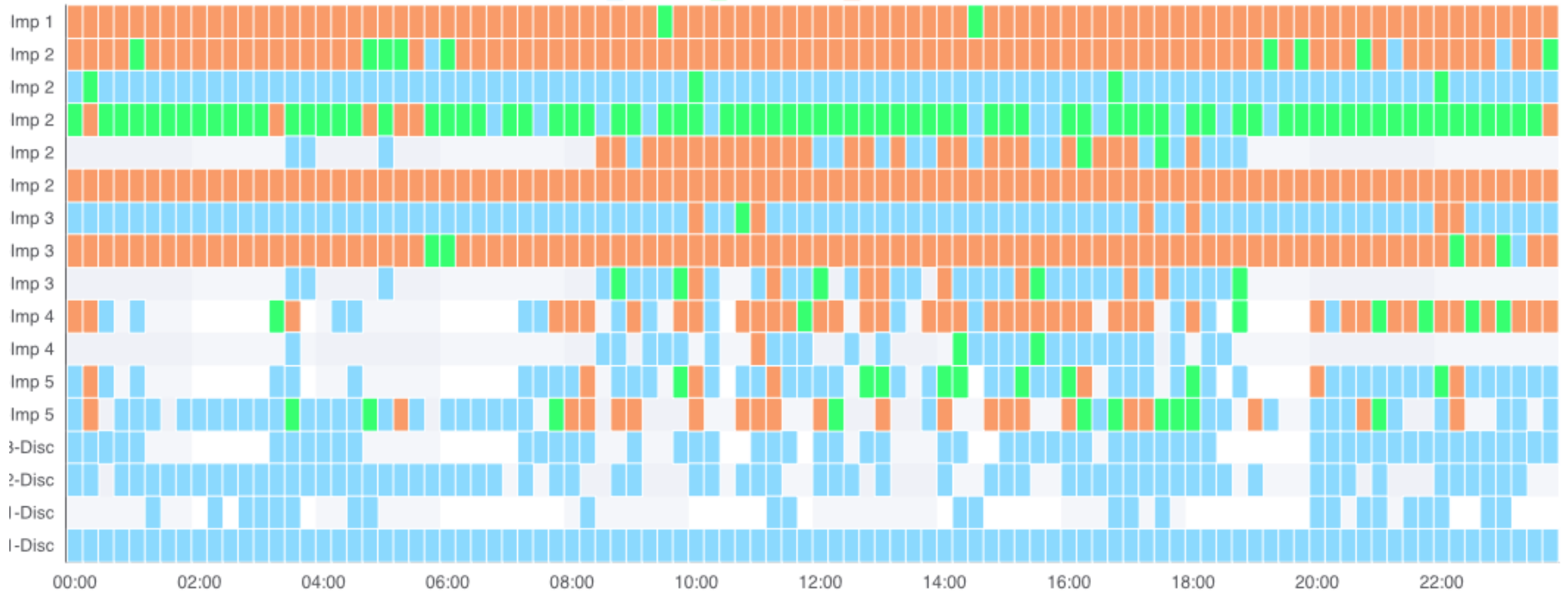


How to Identify

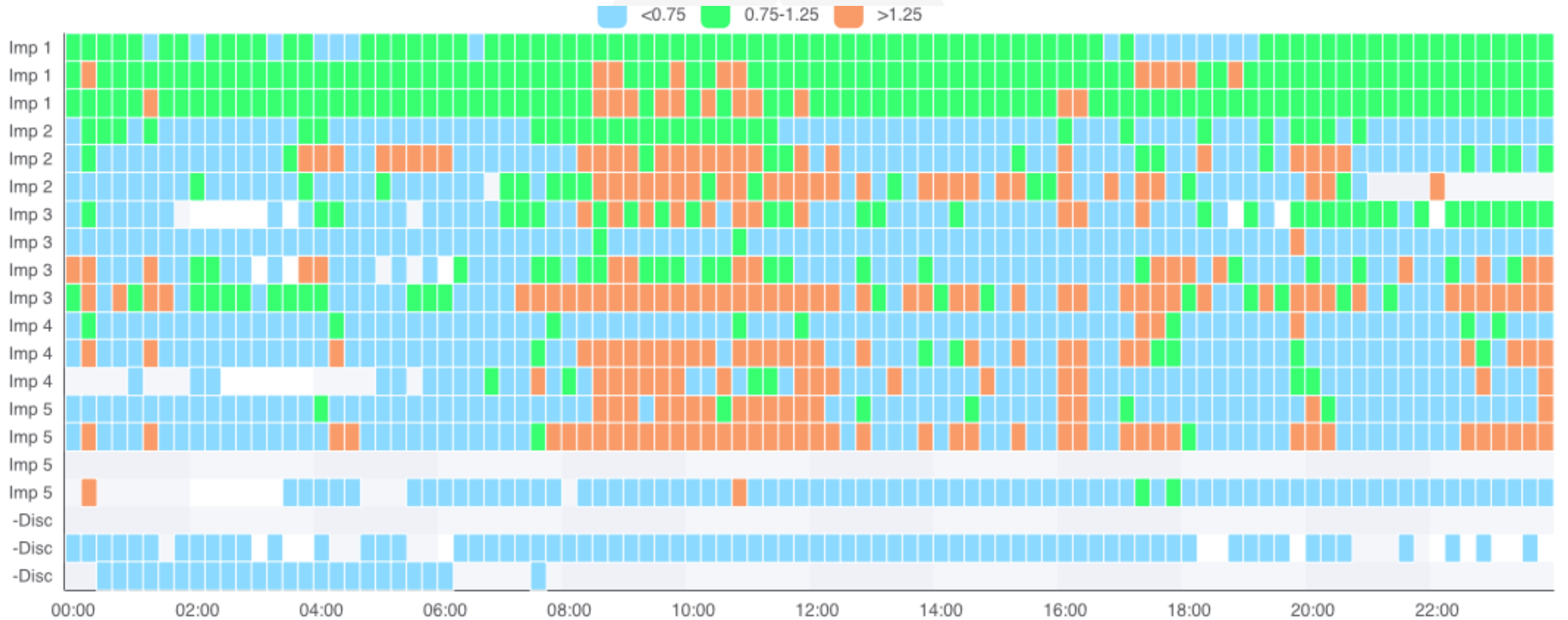
1. Review for best practice violations.
 - a) Number of service classes.
 - b) Realistic goal setting.
 - c) Distribution of importance levels.
 - d) Balances donors and receivers.
 - e) Production vs test.
2. Analyze the measurables.
 - a) Performance Index.
 - b) Goals.
 - c) Delays.
3. Cross team communication.

How to Identify

Legend: ■ <0.75 ■ 0.75-1.25 ■ >1.25



How to Identify



Policy Example

Service Class	Period	Duration	Importance	Goal	Goal Value
SYSTEM	1	0	SYSTEM	SYSTEM	0
SYSSTC	1	0	SYSSTC	SYSTEM	0
DB2PRD	1	0	1	EXECUTION VELOCITY	65
ONLINES	1	0	1	EXECUTION VELOCITY	70
STCHI	1	0	1	EXECUTION VELOCITY	75
TSOPRD	1	900	1	PERCENTILE RESPONSE TIME	00:00:00.300 95%
CICSPRD	1	0	2	PERCENTILE RESPONSE TIME	00:00:00.450 80%
DDFPRDHI	1	900	2	PERCENTILE RESPONSE TIME	00:00:00.350 90%
BATCHHI1	1	0	3	EXECUTION VELOCITY	50
BATCHHI2	1	0	3	EXECUTION VELOCITY	45
BATCH1	1	15000	3	EXECUTION VELOCITY	30
DDFPRDHI	2	0	3	EXECUTION VELOCITY	25
TSOPRD	2	24000	3	EXECUTION VELOCITY	15
CICSTST1	1	0	3	PERCENTILE RESPONSE TIME	00:00:00.900 80%
CICSTST2	1	0	3	PERCENTILE RESPONSE TIME	00:00:00.750 90%
DDFTSTHI	1	800	3	PERCENTILE RESPONSE TIME	00:00:00.800 90%
FTP	1	1000	3	PERCENTILE RESPONSE TIME	00:00:00.400 80%
FTP	2	0	3	EXECUTION VELOCITY	20
TSTONL	1	0	4	EXECUTION VELOCITY	10
BATCH2	1	0	4	EXECUTION VELOCITY	15
BATCH3	1	0	4	EXECUTION VELOCITY	15
DDFPRD	1	2500	4	PERCENTILE RESPONSE TIME	00:00:00.500 75%
STCMED	1	0	4	EXECUTION VELOCITY	10
STCLOW	1	0	4	EXECUTION VELOCITY	5
STCTST	1	0	4	EXECUTION VELOCITY	10
DDFTST	1	2500	4	PERCENTILE RESPONSE TIME	00:00:00.500 75%
DDFTSTHI	2	0	4	EXECUTION VELOCITY	15
BATCHLOW	1	0	5	EXECUTION VELOCITY	3
BATCH4	2	0	5	EXECUTION VELOCITY	5
DDFPRD	2	5000	5	PERCENTILE RESPONSE TIME	00:00:05.000 50%
DDFPRD	3	0	5	EXECUTION VELOCITY	15
BATTST1	1	0	5	EXECUTION VELOCITY	2
BATTST2	1	0	5	EXECUTION VELOCITY	6
BATTST3	1	0	5	EXECUTION VELOCITY	12
DDFTST	2	5000	5	PERCENTILE RESPONSE TIME	00:00:05.000 50%
DDFTST	3	0	5	EXECUTION VELOCITY	15
SYSOTHER	1	0	6	DISCRETIONARY	0
TSOPRD	3	0	6	DISCRETIONARY	0
DISC	1	0	6	DISCRETIONARY	0



HOW TO BRING LIFE INTO A WLM POLICY

Consolidation Example - Before

Service Class	Period	Duration	Importance	Goal	Goal Value
SYSTEM	1	0	SYSTEM	SYSTEM	0
SYSSTC	1	0	SYSSTC	SYSTEM	0
DB2PRD	1	0	1	EXECUTION VELOCITY	65
ONLINES	1	0	1	EXECUTION VELOCITY	70
STCHI	1	0	1	EXECUTION VELOCITY	75
TSOPRD	1	900	1	PERCENTILE RESPONSE TIME	00:00:00.300 95%
CICSPRD	1	0	2	PERCENTILE RESPONSE TIME	00:00:00.450 80%
DDFPRDHI	1	900	2	PERCENTILE RESPONSE TIME	00:00:00.350 90%
BATCHHI1	1	0	3	EXECUTION VELOCITY	50
BATCHHI2	1	0	3	EXECUTION VELOCITY	45
BATCH1	1	15000	3	EXECUTION VELOCITY	30
DDFPRDHI	2	0	3	EXECUTION VELOCITY	25
TSOPRD	2	24000	3	EXECUTION VELOCITY	15
CICSTST1	1	0	3	PERCENTILE RESPONSE TIME	00:00:00.900 80%
CICSTST2	1	0	3	PERCENTILE RESPONSE TIME	00:00:00.750 90%
DDFTSTHI	1	800	3	PERCENTILE RESPONSE TIME	00:00:00.800 90%
FTP	1	1000	3	PERCENTILE RESPONSE TIME	00:00:00.400 80%
FTP	2	0	3	EXECUTION VELOCITY	20
TSTONL	1	0	4	EXECUTION VELOCITY	10
BATCH2	1	0	4	EXECUTION VELOCITY	15
BATCH3	1	0	4	EXECUTION VELOCITY	15
DDFPRD	1	2500	4	PERCENTILE RESPONSE TIME	00:00:00.500 75%
STCMED	1	0	4	EXECUTION VELOCITY	10
STCLOW	1	0	4	EXECUTION VELOCITY	5
STCTST	1	0	4	EXECUTION VELOCITY	10
DDFTST	1	2500	4	PERCENTILE RESPONSE TIME	00:00:00.500 75%
DDFTSTHI	2	0	4	EXECUTION VELOCITY	15
BATCHLOW	1	0	5	EXECUTION VELOCITY	3
BATCH4	2	0	5	EXECUTION VELOCITY	5
DDFPRD	2	5000	5	PERCENTILE RESPONSE TIME	00:00:05.000 50%
DDFPRD	3	0	5	EXECUTION VELOCITY	15
BATTST1	1	0	5	EXECUTION VELOCITY	2
BATTST2	1	0	5	EXECUTION VELOCITY	6
BATTST3	1	0	5	EXECUTION VELOCITY	12
DDFTST	2	5000	5	PERCENTILE RESPONSE TIME	00:00:05.000 50%
DDFTST	3	0	5	EXECUTION VELOCITY	15
SYSOTHER	4	0	6	DISCRETIONARY	0
TSOPRD	3	0	6	DISCRETIONARY	0
DISC	1	0	6	DISCRETIONARY	0

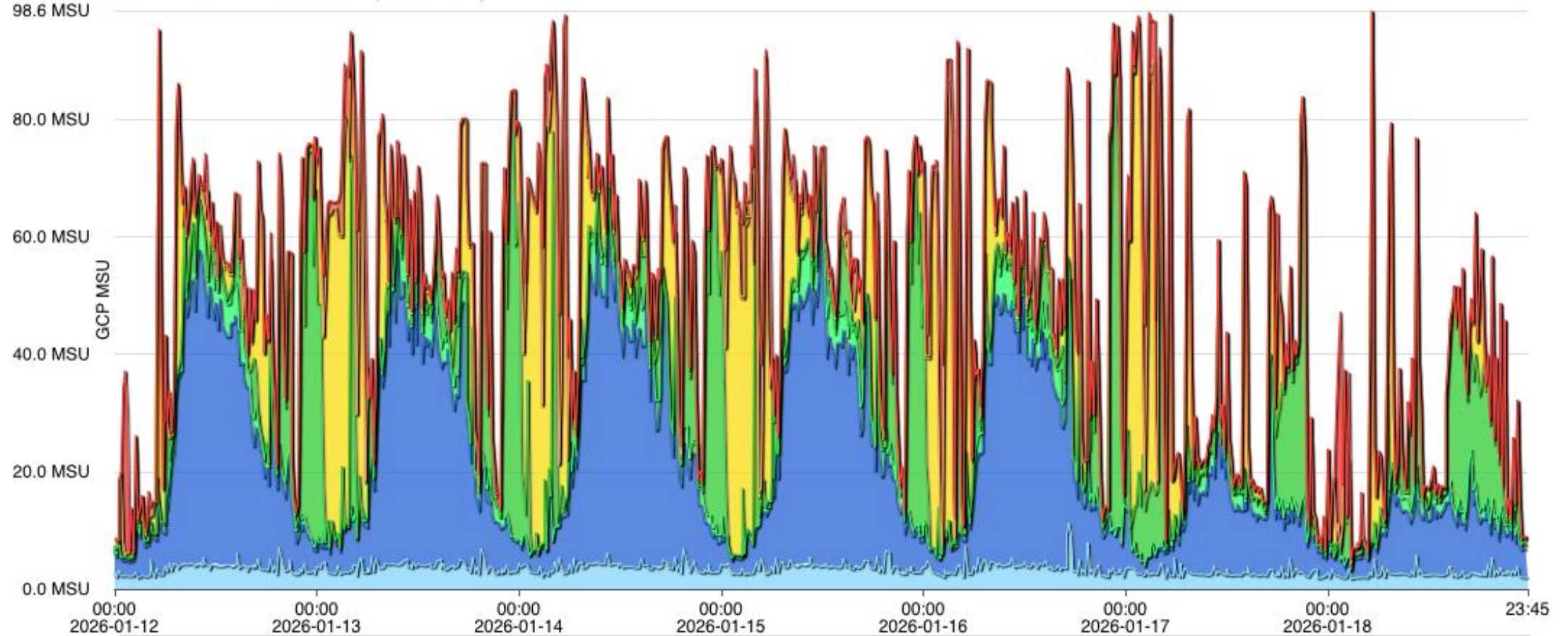
Consolidation Example - After

Service Class	Period	Duration	Importance	Goal	Goal Value
SYSTEM	1	0	SYSTEM	SYSTEM	0
SYSSTC	1	0	SYSSTC	SYSTEM	0
DB2PRD	1	0	1	EXECUTION VELOCITY	65
ONLINES	1	0	1	EXECUTION VELOCITY	70
STCHI	1	0	1	EXECUTION VELOCITY	75
CICSPRD	1	0	2	PERCENTILE RESPONSE TIME	00:00:00.200 90%
DDFPRD	1	0	2	PERCENTILE RESPONSE TIME	00:00:00.100 90%
TSOPRD	1	750	2	PERCENTILE RESPONSE TIME	00:00:00.100 95%
BATCHHI	1	0	3	EXECUTION VELOCITY	45
CICSTST	1	0	3	PERCENTILE RESPONSE TIME	00:00:00.800 80%
FTP	1	2000	3	PERCENTILE RESPONSE TIME	00:00:00.400 85%
FTP	2	0	3	EXECUTION VELOCITY	15
BATCH	1	0	4	EXECUTION VELOCITY	15
STC	1	0	4	EXECUTION VELOCITY	10
TSOPRD	2	0	4	EXECUTION VELOCITY	15
TSTONL	1	0	5	EXECUTION VELOCITY	8
STCTST	1	0	5	EXECUTION VELOCITY	5
BATTST1	1	0	5	EXECUTION VELOCITY	15
DDFTST	1	0	5	PERCENTILE RESPONSE TIME	00:00:00.800 80%
BATTST2	1	0	6	DISCRETIONARY	0
DISC	1	0	6	DISCRETIONARY	0

Importance Level Distribution

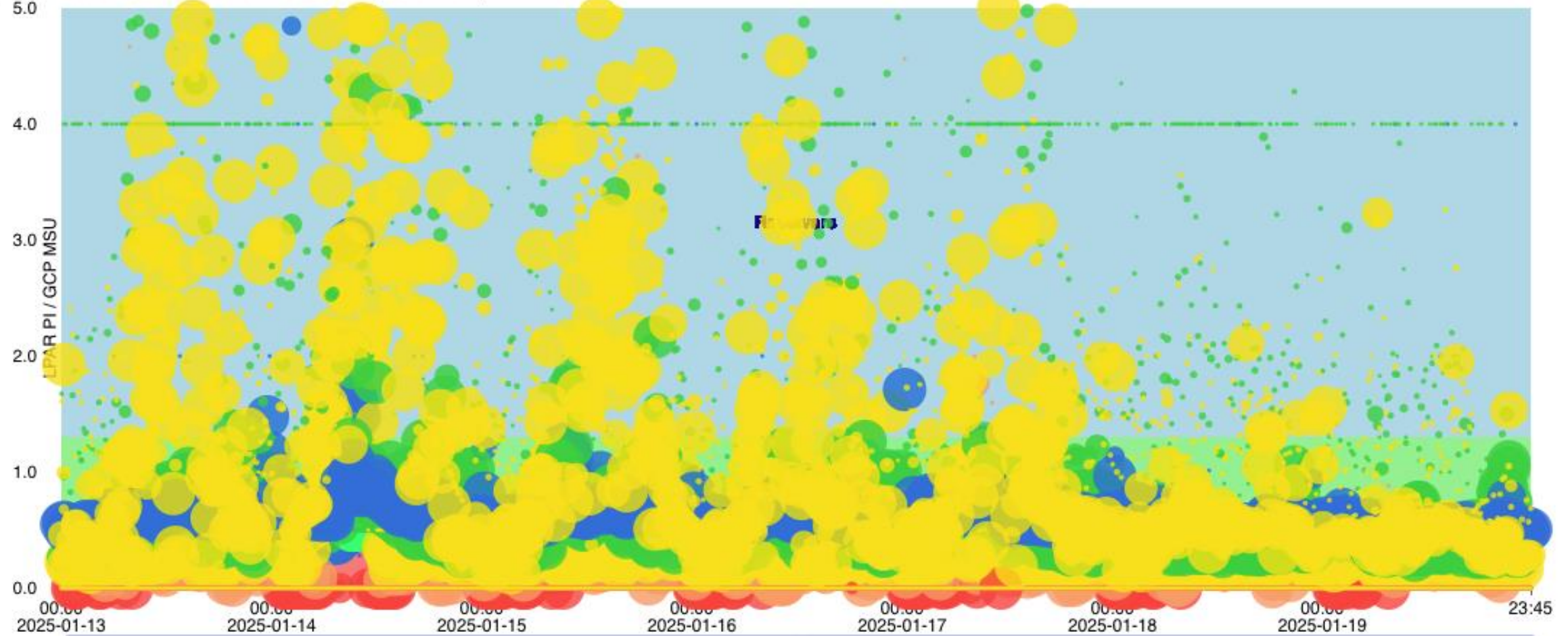
LPAR MSU by Importance

2026-01-12 00:00 UTC-8 - 2026-01-18 23:59 UTC-8 (Interval: 15m)



Importance Level Distribution - Before

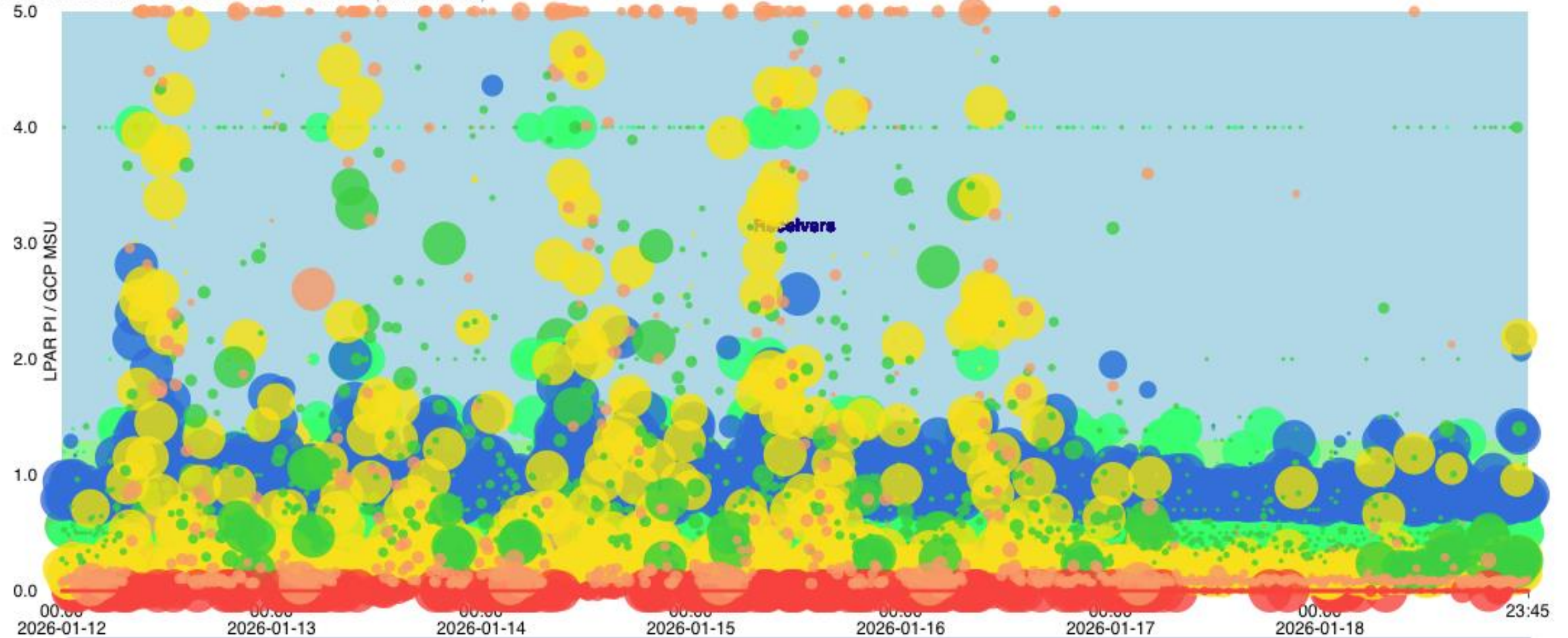
Performance Index Distribution - Service classes
2025-01-13 00:00 UTC-8 - 2025-01-19 23:59 UTC-8 (Interval: 15m)



Importance Level Distribution - After

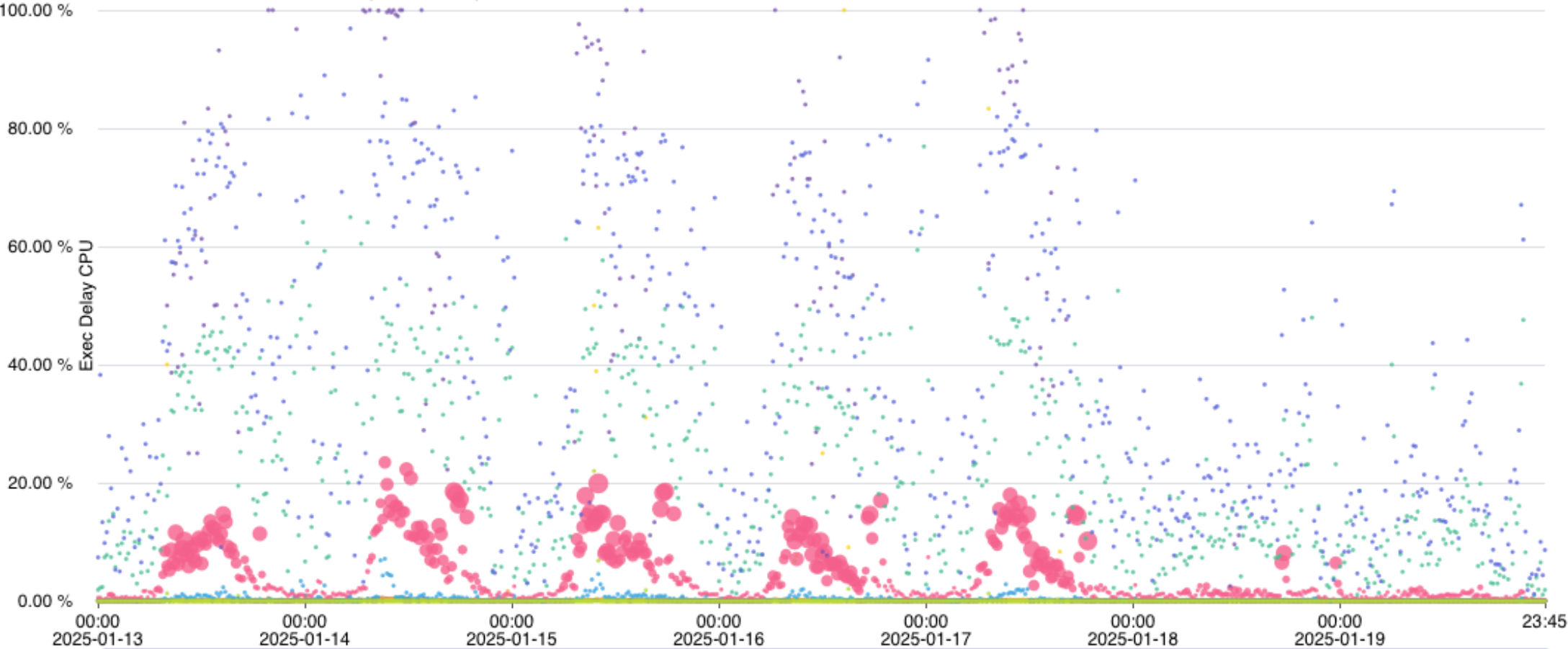
Performance Index Distribution - Service classes

2026-01-12 00:00 UTC-8 - 2026-01-18 23:59 UTC-8 (Interval: 15m)



Execution Delay - Before

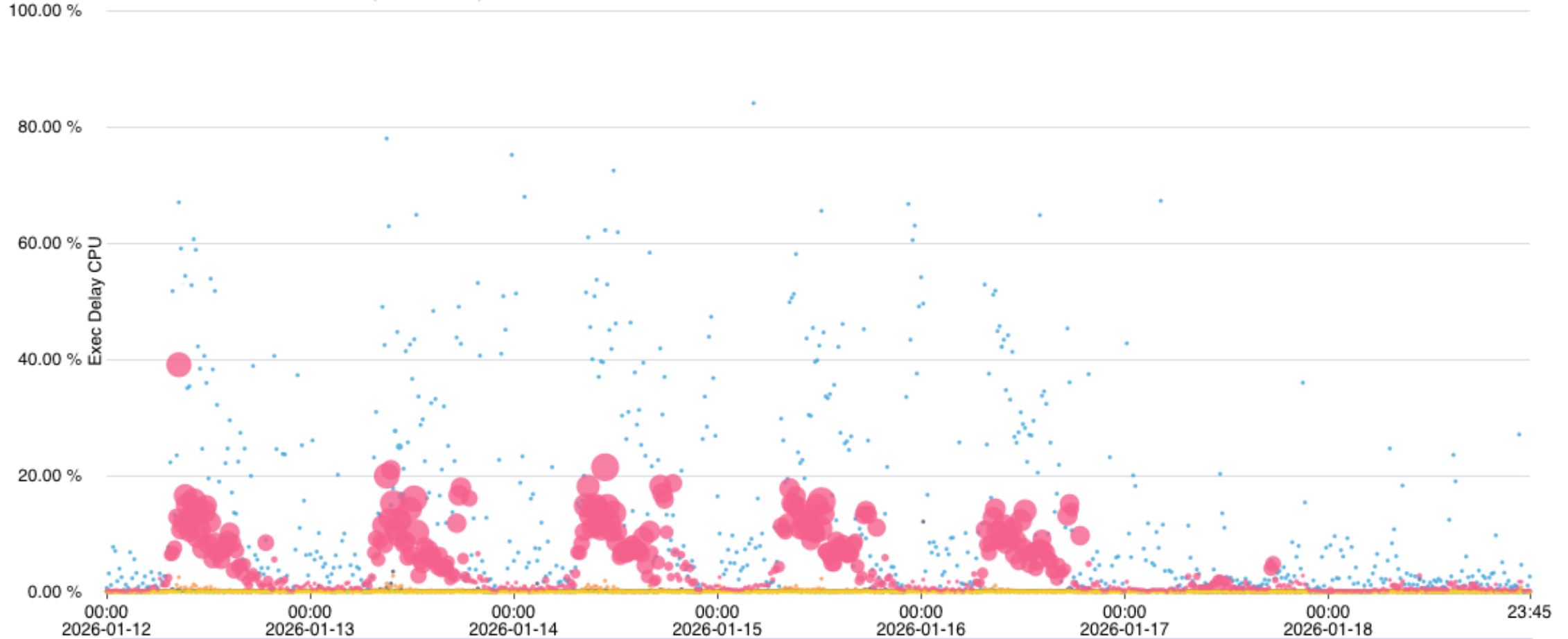
Execution Delay CPU Distribution - Service classes
2025-01-13 00:00 UTC-8 - 2025-01-19 23:59 UTC-8 (Interval: 15m)



Execution Delay - After

Execution Delay CPU Distribution - Service classes

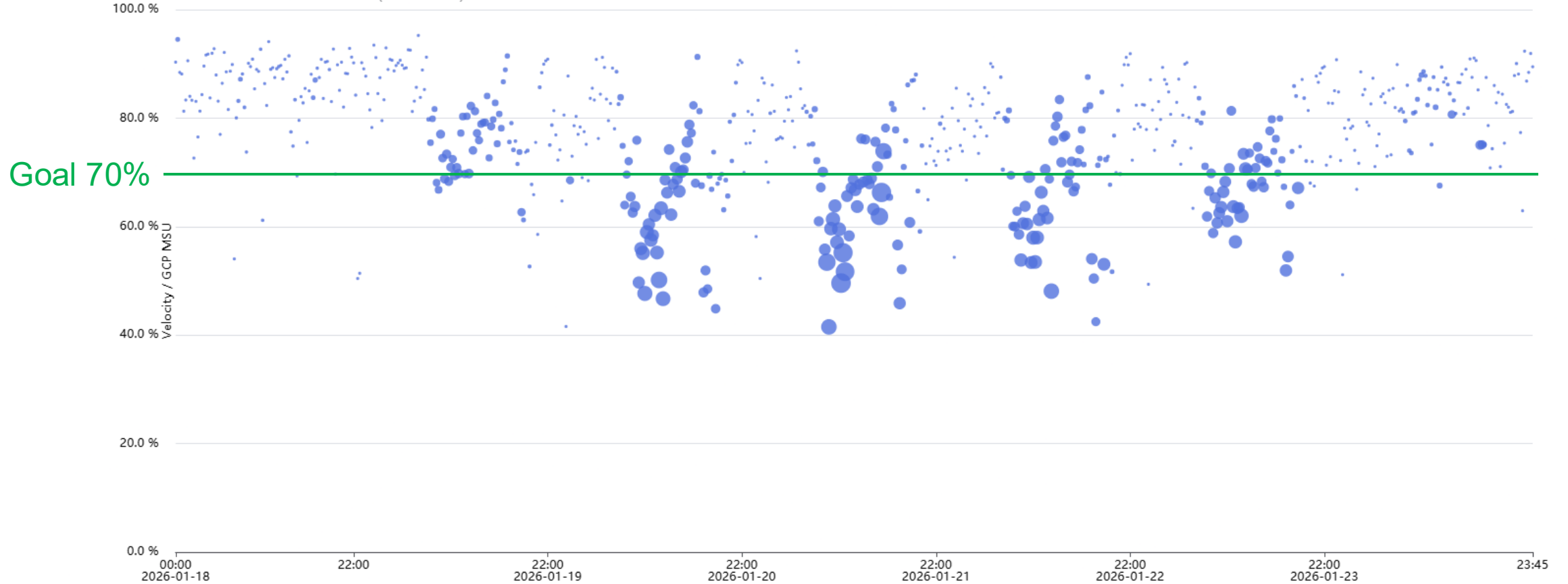
2026-01-12 00:00 UTC-8 - 2026-01-18 23:59 UTC-8 (Interval: 15m)



Execution Velocity

Execution Velocity Distribution - Service class

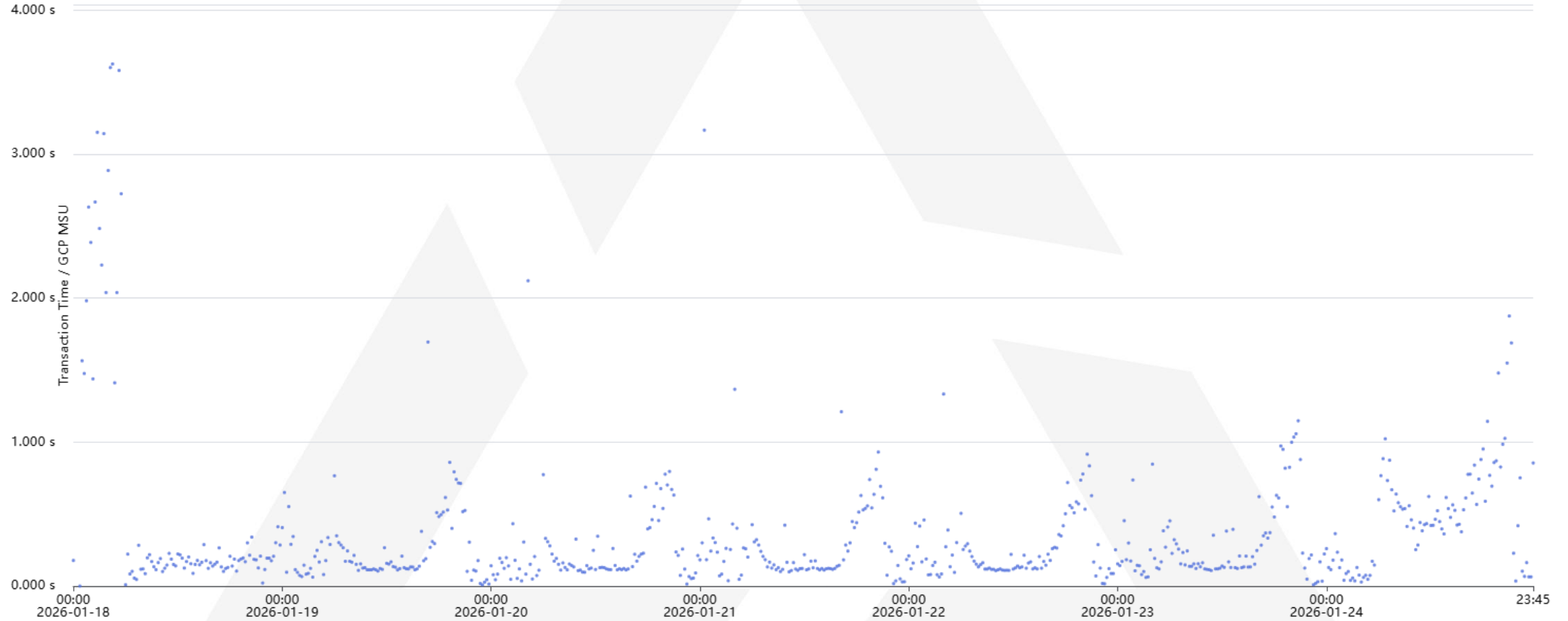
2026-01-18 00:00 UTC-8 - 2026-01-24 23:59 UTC-8 (Interval: 15m)



Average Response Time Distribution

*CICS Workload

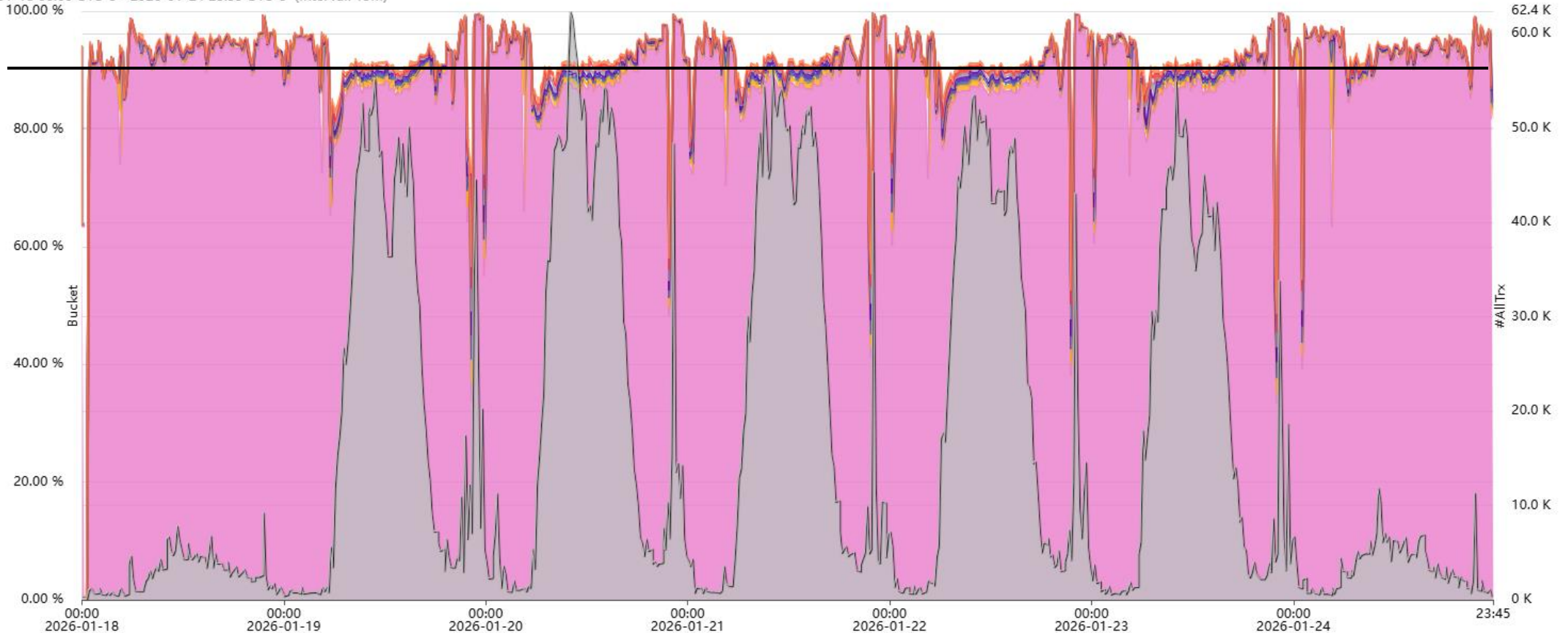
Average Response Time Distribution - Service classes
2026-01-18 00:00 UTC-6 - 2026-01-24 23:59 UTC-6 (Interval: 15m)



Percentile Response Time - Buckets

Bucket 1-14 % by Service class

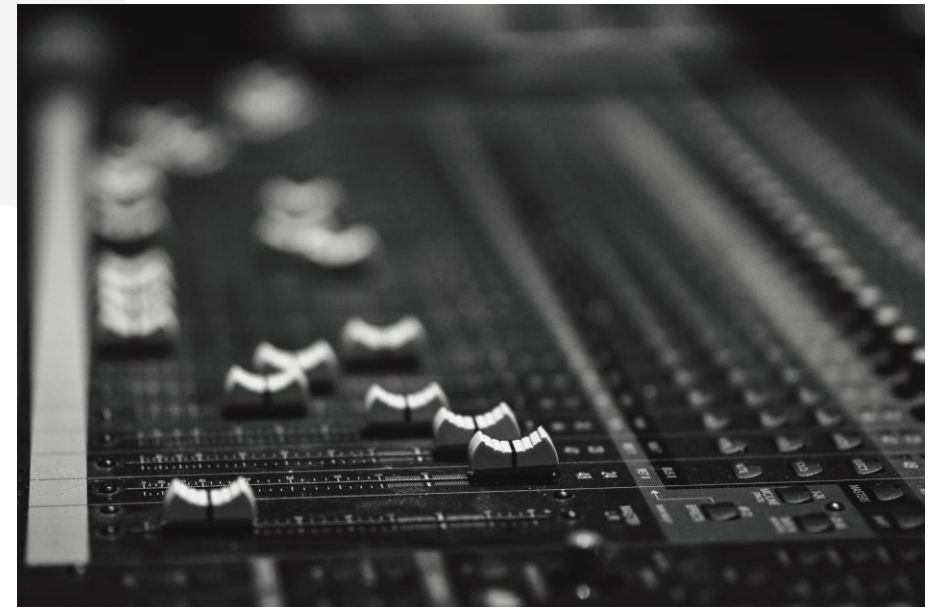
2026-01-18 00:00 UTC-6 - 2026-01-24 23:59 UTC-6 (Interval: 15m)



- Goal of 0.090 seconds with a percentile of 90%.

Tuning Strategies

- Set realistic, achievable and appropriate goals.
- Use structured approach:
 - Top down focus.
 - Avoid drastic goal changes.
 - Avoid multiple concurrent changes.
- Keep balance in mind.
- Tuning is cyclical.
 - Always start from the top.
- Remain vigilant in your tuning.
- Tuning analysis doesn't always need a change.



Thank You!

- Visit us at SVA Software Inc. Booth #105.
- WLM 101: Introduction to WLM
 - Wednesday @ 10:30 AM.
 - Salon 13
- From The Classroom To The Conference Room – My Journey From Being a Student To a Mainframe Professional
 - Wednesday @ 10:30 AM.
 - GS Room 1

Your feedback is important!

Submit a session evaluation for each session you attend:

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