



IntelliMagic



Enhanced Analysis Through Integrating CICS and Other Types of SMF Data

Virtual CICS User Group – January 23, 2024
Todd Havekost – Senior Performance Consultant

A photograph of a lighthouse situated on a large sand dune. The lighthouse is a multi-tiered structure with a white base, a grey middle section with arched windows, and a red top section with a glass lantern room and a weather vane. In the background, a vast landscape of sand dunes stretches towards the horizon under a blue sky with scattered clouds. A few people and a dog are visible on the dunes, providing a sense of scale.

Integrating CICS & Other Types of SMF Data

Integrating CICS & Other Types of SMF Data

- With WLM goal data (72.3)
- CICS / Db2 / MQ topology views
- With Db2 accounting data (101)
- With MQ accounting data (116)
- With z/OS Connect data (123)



Enhanced Capabilities for Analyzing SMF Data

- Proactive identification of potential risks to availability and performance
- Common intuitive interface into data types across disciplines promotes collaborative analysis and expedites learning
- Dynamic navigation to explore data based on current view (instead of static reports)
- Context sensitive drill downs to quickly focus on desired subset of data (even with massive data volumes)
- Shared customized dynamic dashboards provide common views across organization



With WLM Service Class
Goal Data (72.3)

A photograph of a lighthouse on a sand dune. The lighthouse is a multi-tiered structure with a white base, a grey middle section with arched windows, and a red top section with a glass lantern room and a weather vane. In the background, a large sand dune slopes down towards the ocean. Several people and a dog are visible on the dune. The sky is blue with scattered white clouds.

With CICS / Db2 / MQ Subsystem Topology Views

So You Don't Think You're An Architect?

So You Probably Aren't An Architect But The Role You Can Play Is Very Valuable

For You

- Understand what's really going on
- Especially valuable to **real** systems architects
- Keep up to date view of the estate
- Inform your own capacity and performance role
- Contribute to resilience discussions
 - Your job could become "Capacity, Resilience, Architecture, Performance"

For Me

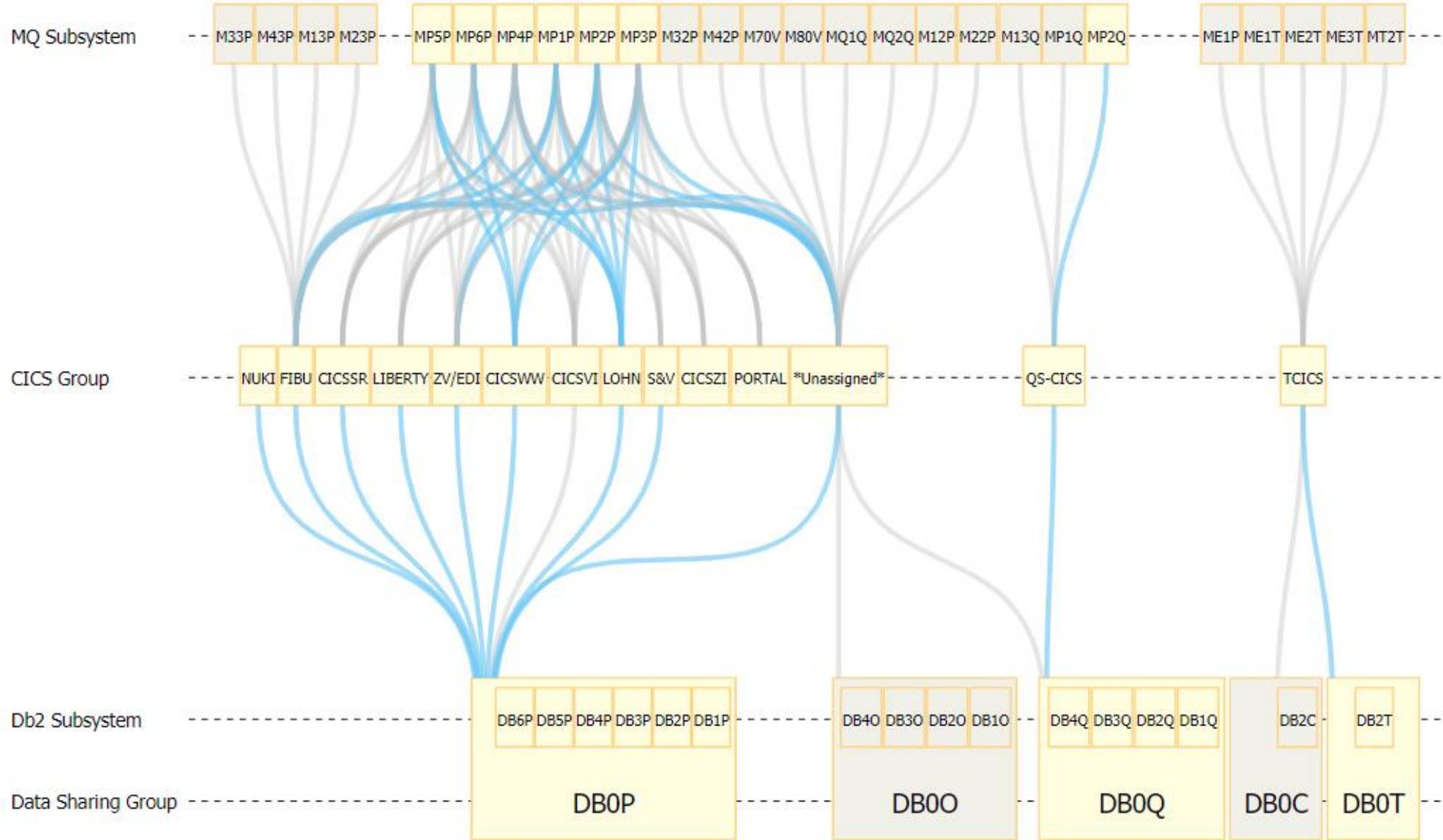
- Personally, dabbling in architecture keeps me interested
 - Not that Performance and Capacity are boring
 - It just provides another angle
- Gives me another way to find patterns among customers
- Enables me to collaborate with other disciplines

Martin Packer, IBM,
GSE UK Nov. 2023

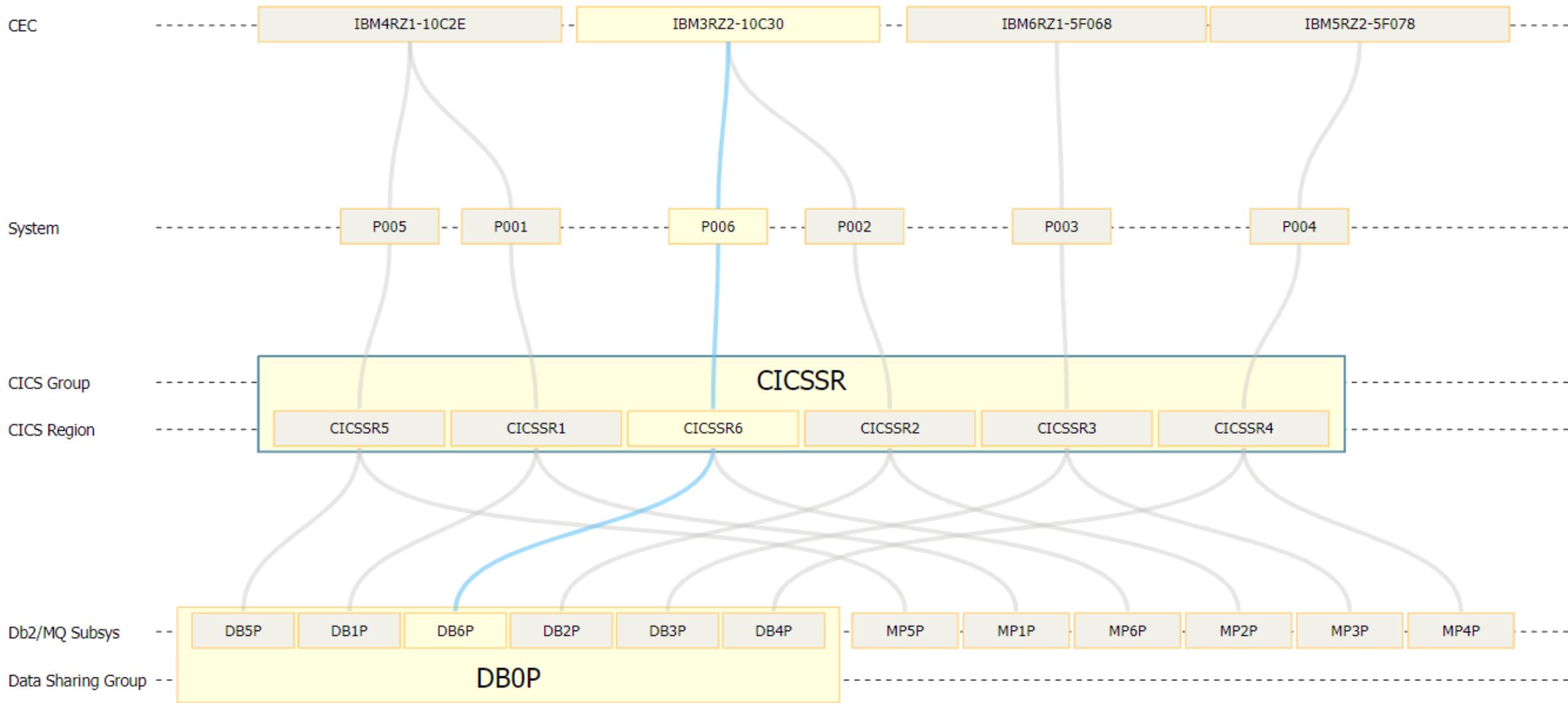
Complexity

- I'm seeing increasingly complex estates
 - Hundreds of CICS regions
 - Scores of Db2 subsystems
 - Dozens of MQ queue managers
 - Ever more diverse DDF work
 - Newer functions such as zCX, CTG, z/OS Connect
- Keeping track of it is really tough
 - Actually true for smaller estates

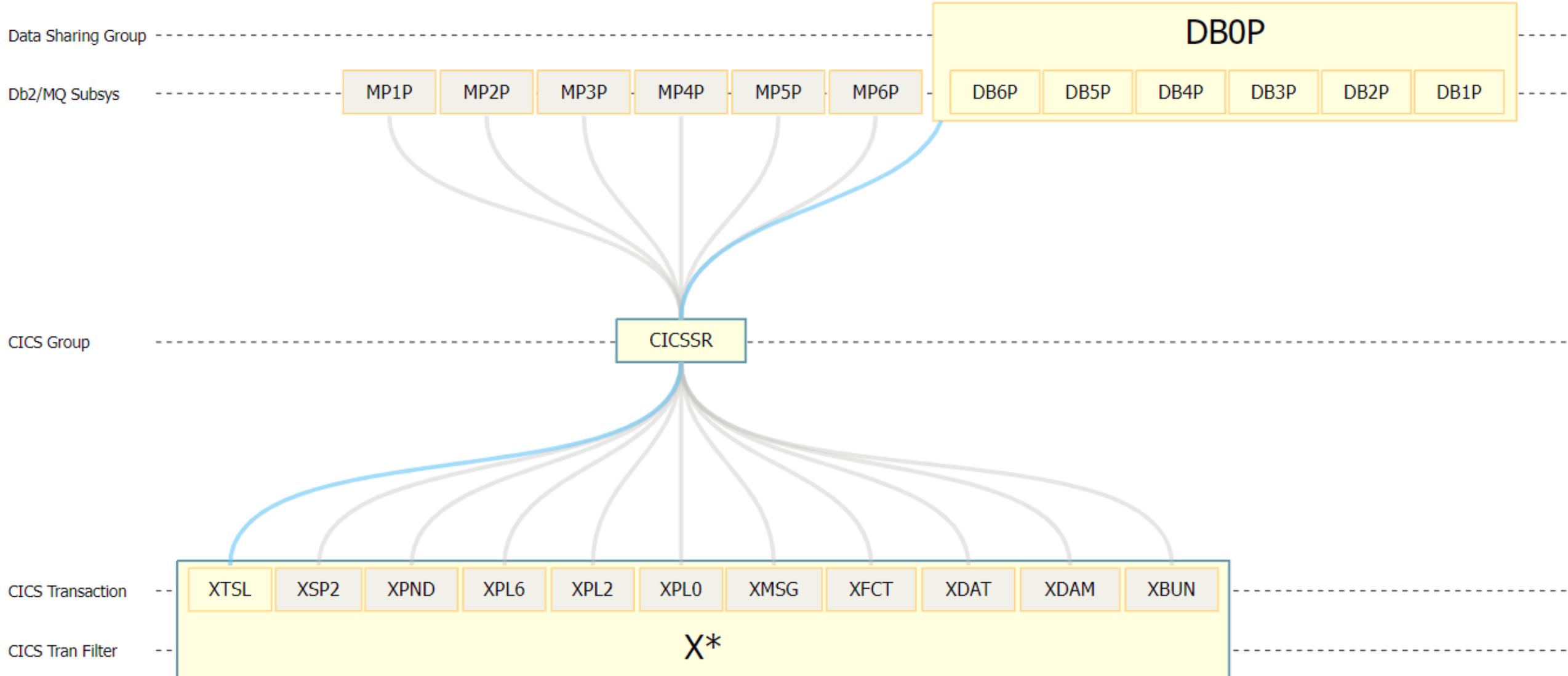
Subsystem Topology



Subsystem/System Topology



Tran/Subsystem Topology





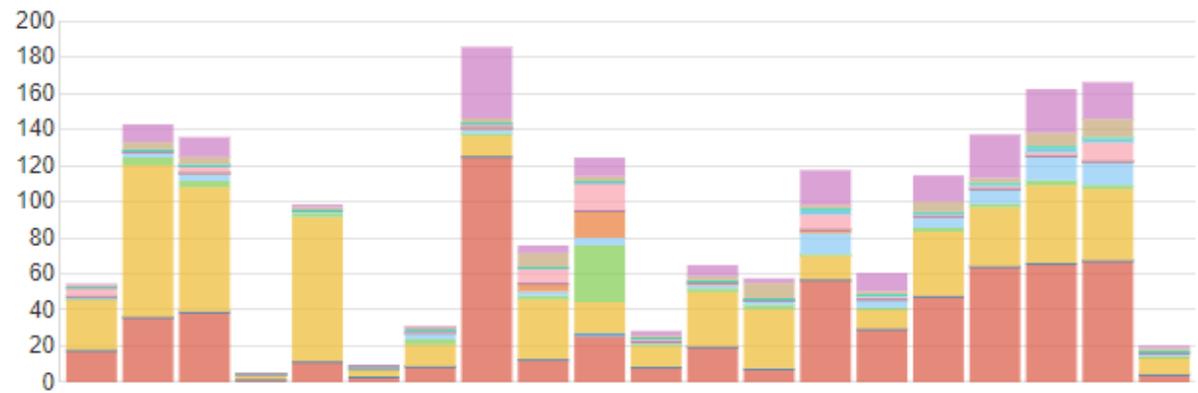
With Db2 Accounting Data (101)

DB2 TRANSACTION RESPONSE TIME (TOP 20)

For Connection Type 'CICS Call Attach' by Correlation Name

Full report

Single day 7/1/2021
Interest group IGT, All sysplexes, All shifts, Interval Measurement

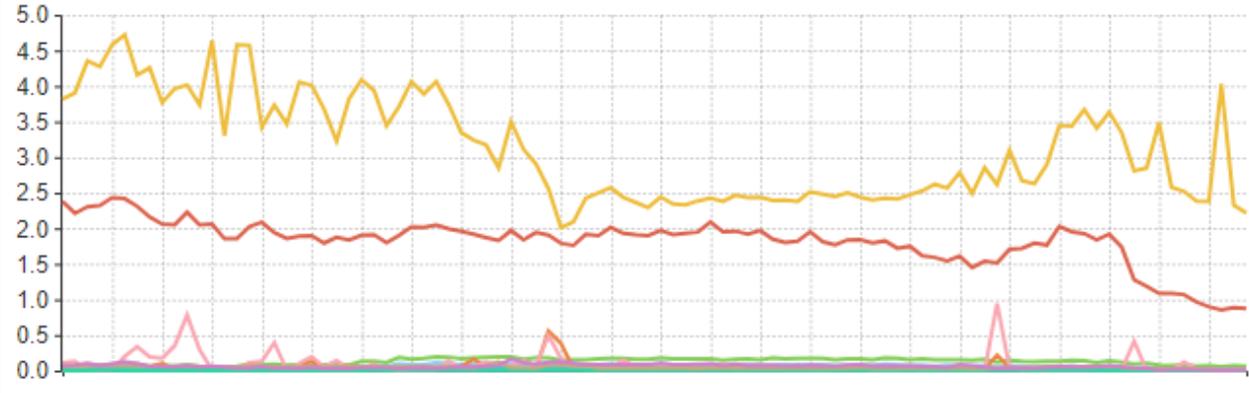


DB2 TRANSACTION RESPONSE TIME

For Connection Type 'CICS Call Attach', for Correlation Name 'DWWI'

Full report

Single day 7/1/2021
Interest group IGT, All sysplexes, All shifts, Interval Measurement

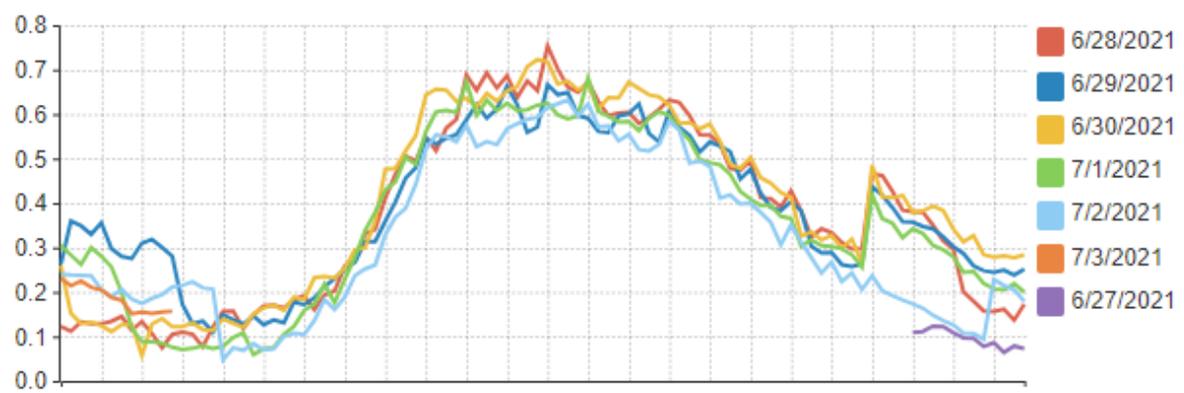


DB2 CLASS 2 CP PROCESSORS USED

For Plan Name 'GY7BP1G' by Date with filter on Connection Type

Full report

All data 6/27/2021 12:00 AM - 7/3/2021 2:59 AM
Interest group IGT, All sysplexes, All shifts, Interval Measurement

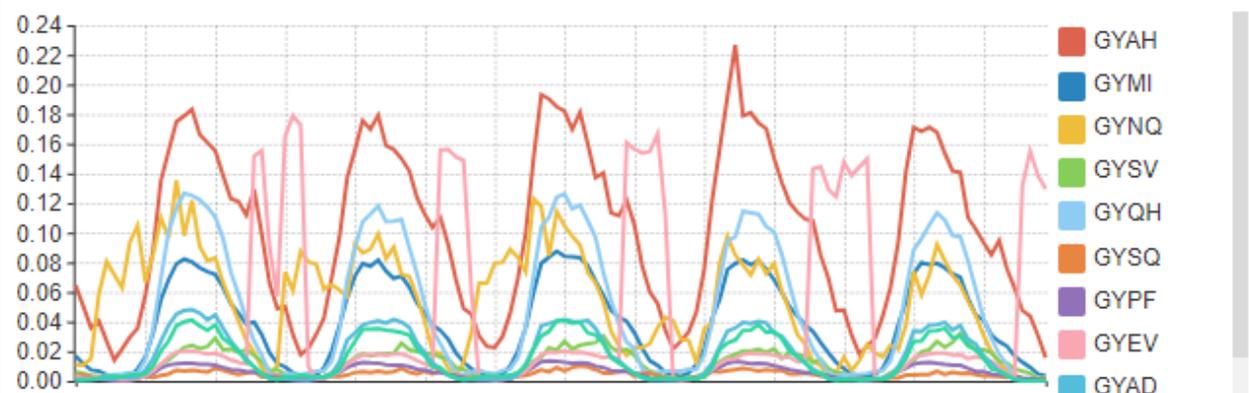


DB2 CLASS 2 CP PROCESSORS USED (TOP 10)

For Plan Name 'GY7BP1G' by Correlation Name with filter on Connection Type

Full report

All data 6/27/2021 12:00 AM - 7/3/2021 2:59 AM
Interest group IGT, All sysplexes, All shifts, Interval Hour





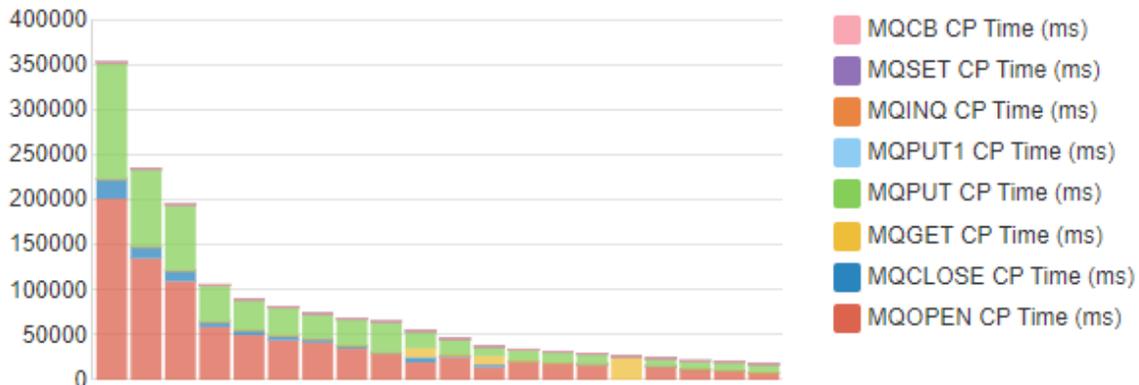
With MQ Accounting Data (116)

MQ COMMAND CP USAGE (TOP 20)

For Connection Type 'CICS' by CICS Transaction ID

Full report

Single day 7/2/2021
Interest group IGT, All sysplexes, All shifts, Interval Measurement



MQ COMMANDS PER SECOND (TOP 20)

For Connection Type 'CICS' by Connection Name

Full report

Single day 7/2/2021
Interest group IGT, All sysplexes, All shifts, Interval Measurement

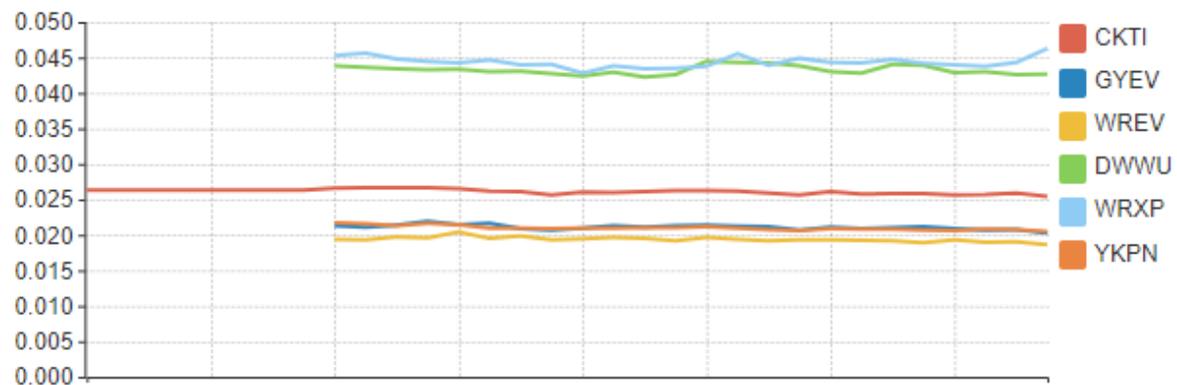


MQGET AVERAGE CP USAGE (TOP 6)

For Connection Type 'CICS' by CICS Transaction ID

Full report

Single day 7/2/2021
Interest group IGT, All sysplexes, All shifts, Interval Measurement

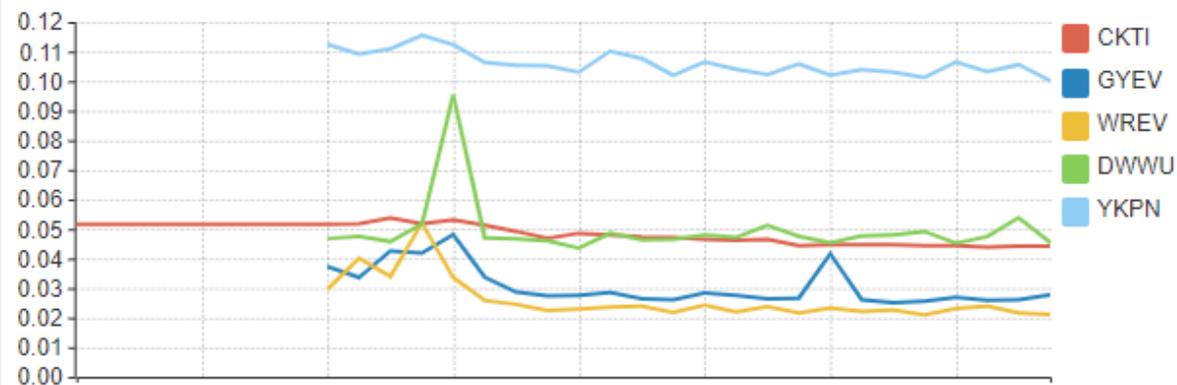


MQGET AVERAGE ELAPSED TIME (TOP 5)

For Connection Type 'CICS' by CICS Transaction ID

Full report

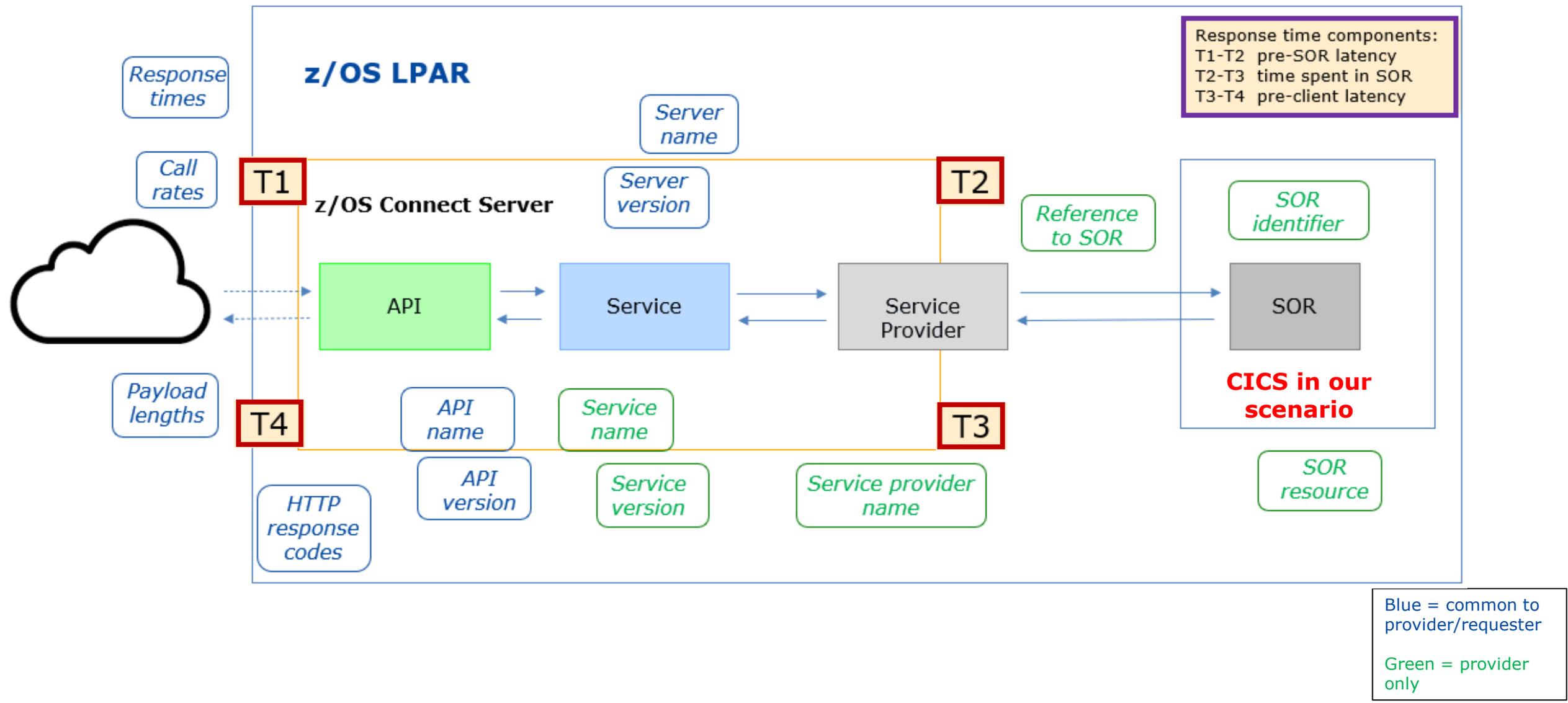
Single day 7/2/2021
Interest group IGT, All sysplexes, All shifts, Interval Measurement





With z/OS Connect Data (123)

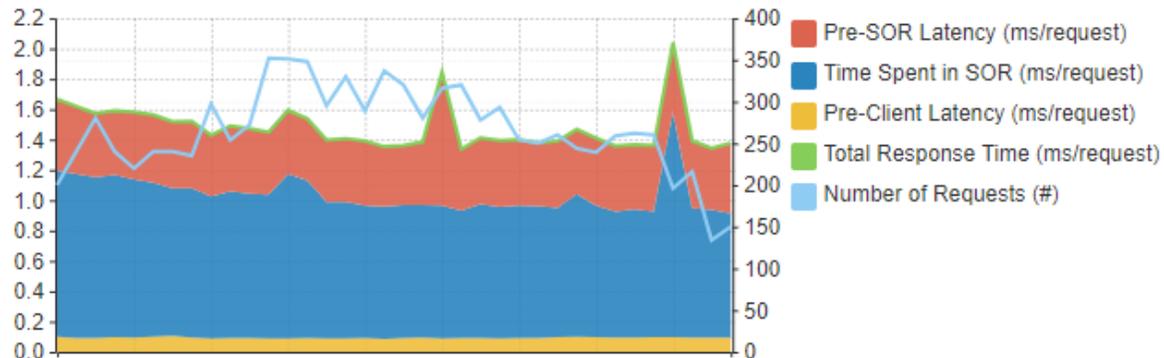
API Provider Metrics (123.1)



RESPONSE TIME COMPONENTS

For API Name 'SCOF-PMT-MAM-INQUIRY-API-V1', for Service Provider Na... [Edit](#) | [Full report](#)

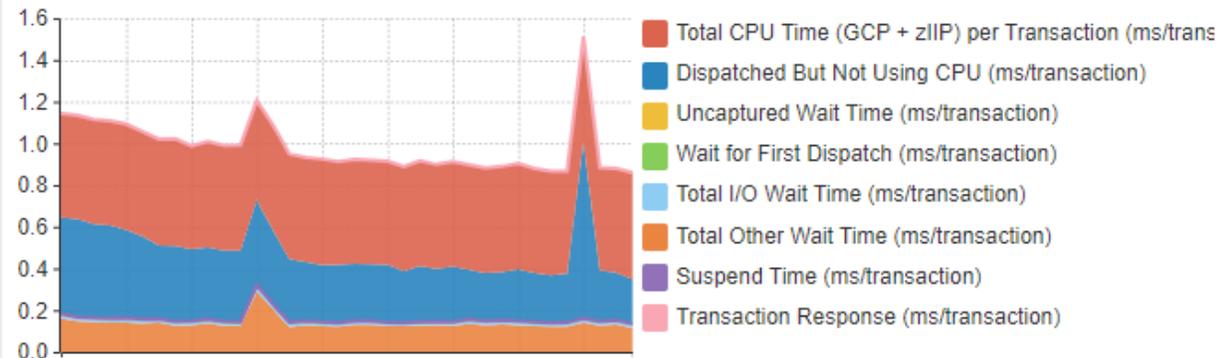
Single day 9/22/2023
Interest group IGT, All sysplexes, day, Interval Measurement



TRANSACTION RESPONSE TIME

For Generic Applid 'A01CIC70', for CICS Transaction ID 'CSMI' [Edit](#) | [Full report](#)

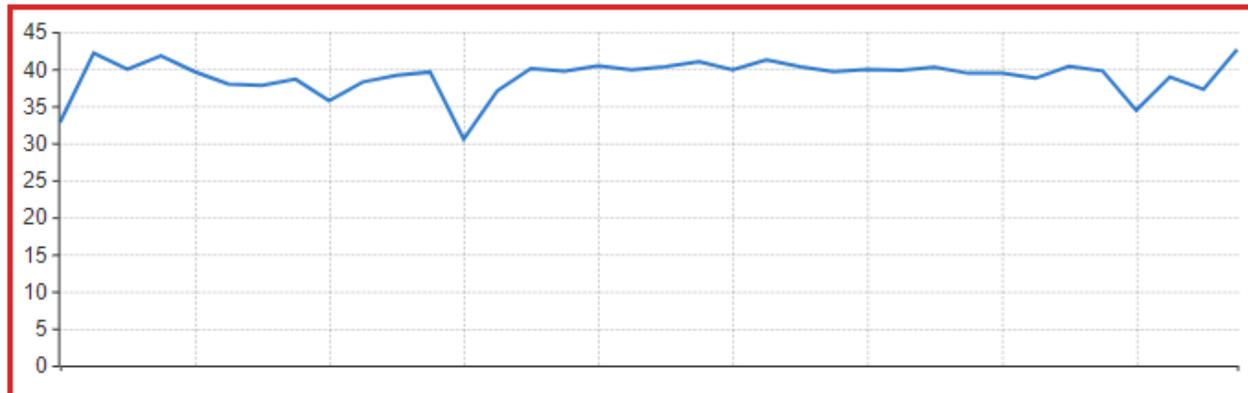
Single day 9/22/2023
Interest group IGT, All sysplexes, day, Interval Measurement



USING CPU WHILE DISPATCHED [RATING: 3.00]

For Generic Applid 'A01CIC70' [Edit](#) | [Full report](#)

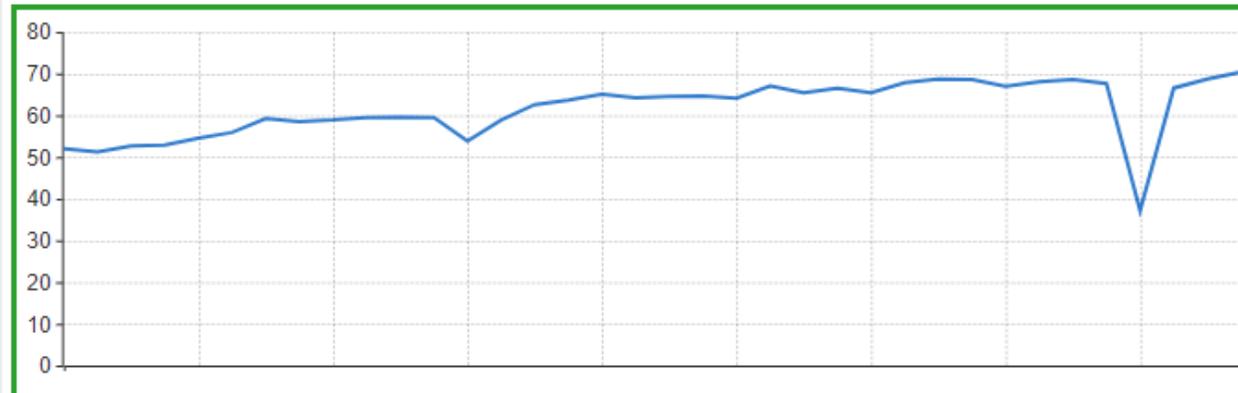
Single day 9/22/2023
Interest group IGT, All sysplexes, day, Interval Measurement



USING CPU WHILE DISPATCHED [RATING: 0.00]

For Generic Applid 'A01CIC70', for CICS Transaction ID 'CSMI' [Edit](#) | [Full report](#)

Single day 9/22/2023
Interest group IGT, All sysplexes, day, Interval Measurement





Resources

Additional CICS Resources

CICS Statistics Videos

- Assessing CICS Storage Health
- Assessing CICS Transaction & Enqueue Health
- CICS Transaction Class Metrics
- CICS TCB Dispatcher Metrics – Part 1
- CICS TCB Dispatcher Metrics – Part 2 (T8 TCBs)



CICS Transactions Videos

- CICS Timing Metrics – Overview
- Transaction Response Time Analysis
- Timing Analysis by High-Level Components
- Response Time Analysis Scenario 1 Values Differing by System ID
- Integrating WLM Performance Index and CICS Transaction Analysis
- CICS Web Services Metrics
- Overview of Non-timing Transaction Metrics

Upcoming Events and Webinars

February
22



Mainframe Roundtable #3: the SYSPROGS –
John Baker, Facilitator

March
4-7



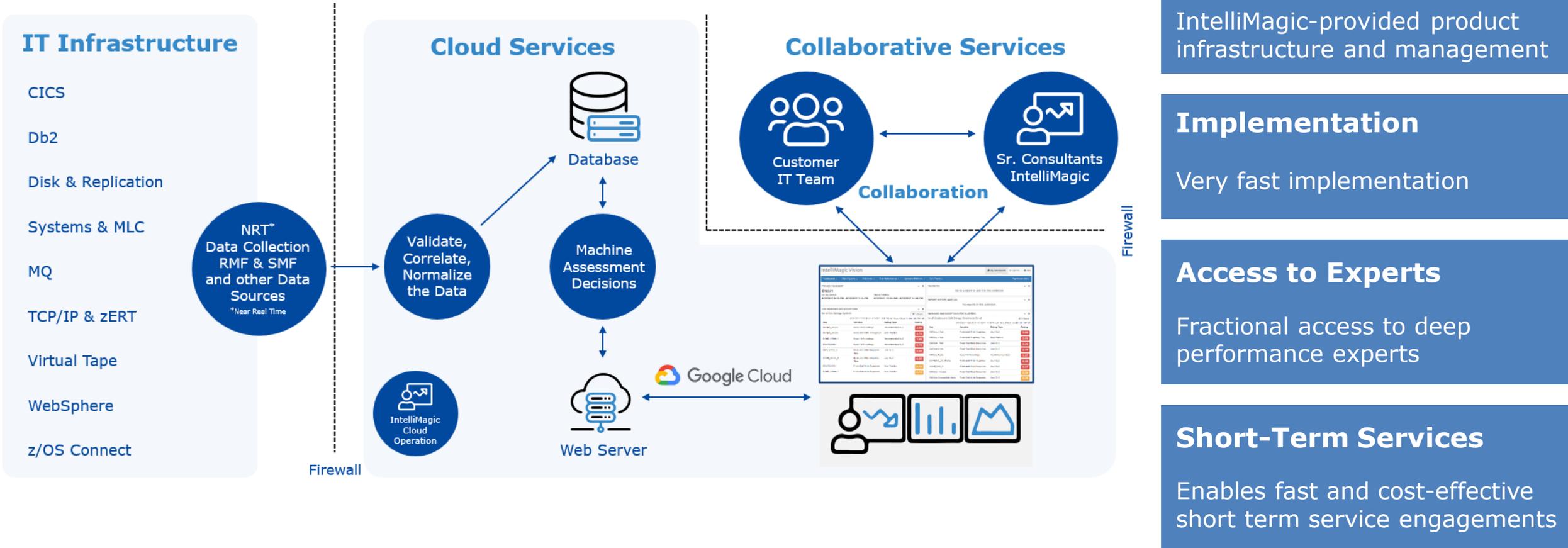
SHARE Orlando

March
21



Should There Be a Sub-Capacity Processor Model in Your Future? –
Frank Kyne & Todd Havekost

IntelliMagic Cloud: Focus + Access to Experts





Questions?



IntelliMagic

Thank you for attending!

@

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