MAINFRAME CAPACITY MANAGEMENT

TIME TO COME OUT OF THE SILO

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Abstract

The mainframe has traditionally adhered to its own set of procedures, processes, and reporting, as it was a mature discipline within an organization. That has often led to a silo mentality; in many cases, new technologies were not considered in its purview. These new technologies include Cloud, Hyper-Convergence computing, and Big Data.

Capacity management for the mainframe, to be successful, needs to stretch out its arms and embrace these new platforms: they are integral to the success of the enterprise. The disciplines developed for the mainframe can be used to assist in the maturing of these other areas if everyone comes at it with an open mind.

The skillsets needed by Capacity Managers these days must broaden as there are few individuals to perform that function. The landscape is continually evolving within the enterprise and we need to embrace and contribute to all areas, and not focus on just our discipline.

Presenter

- Principal Consultant at Metron-Athene, Inc. / Syncsort
- Involved in the IT industry for 30+ years
- Involved with Capacity Management for 25+ years
- Presenter at conferences such as CMG, GSE, Share and regional / local User Groups
- Certifications in ITIL, VMware and other disciplines

Quote

Man is still the most extraordinary computer of all.

- John F. Kennedy

Agenda

- The good aspects
- The bad aspects
- The changing Mainframe organization
- How does mainframe Capacity Management evolve?
- Summary

Time to come out of the Silo

Differing Aspects of Mainframe Capacity Management

Good Aspects

- Disciplined
- Well defined
- Established data acquisition process
- Established reporting process
- Proactive

Bad Aspects

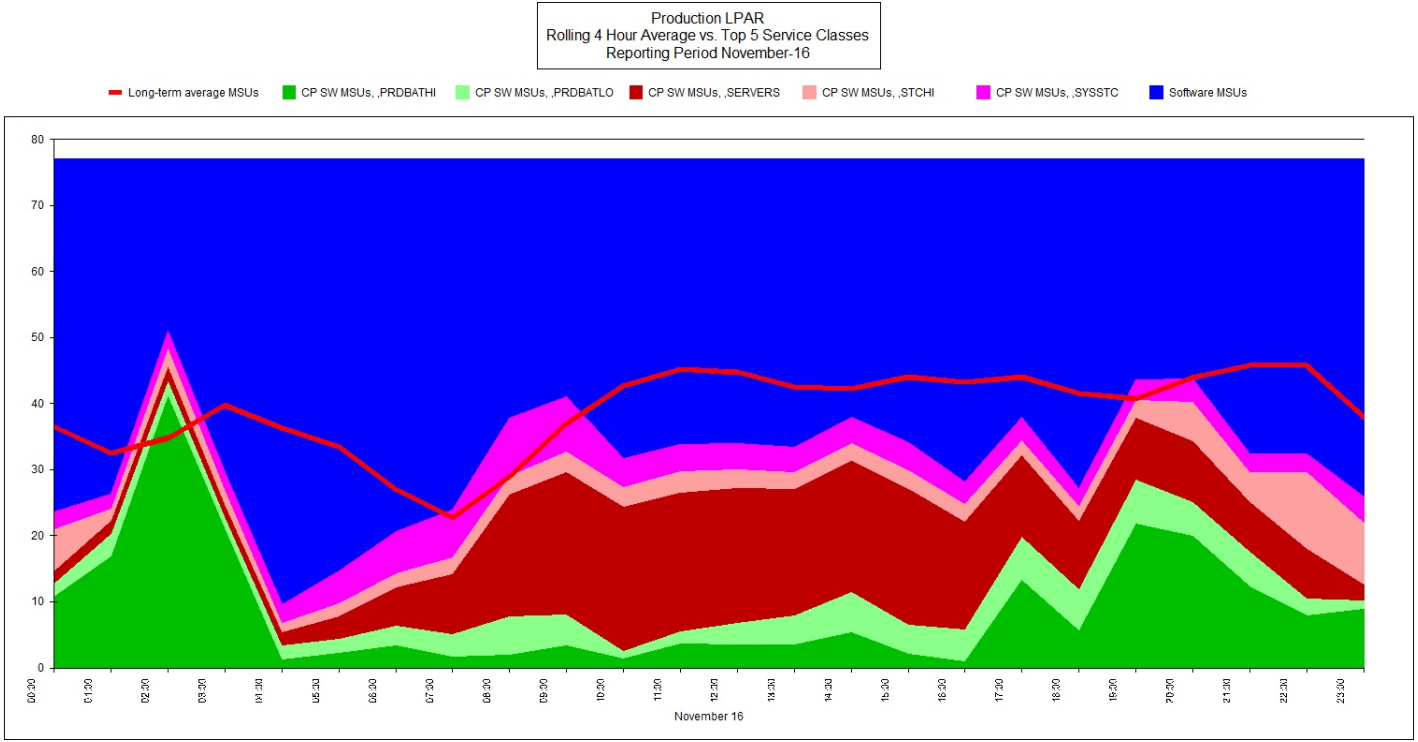
- Well established and entrenched
- Manual processes and procedures
- Few have complete environment knowledge
- Siloed view of the environment
- Lack of importance because it is not business focused

The New World Order

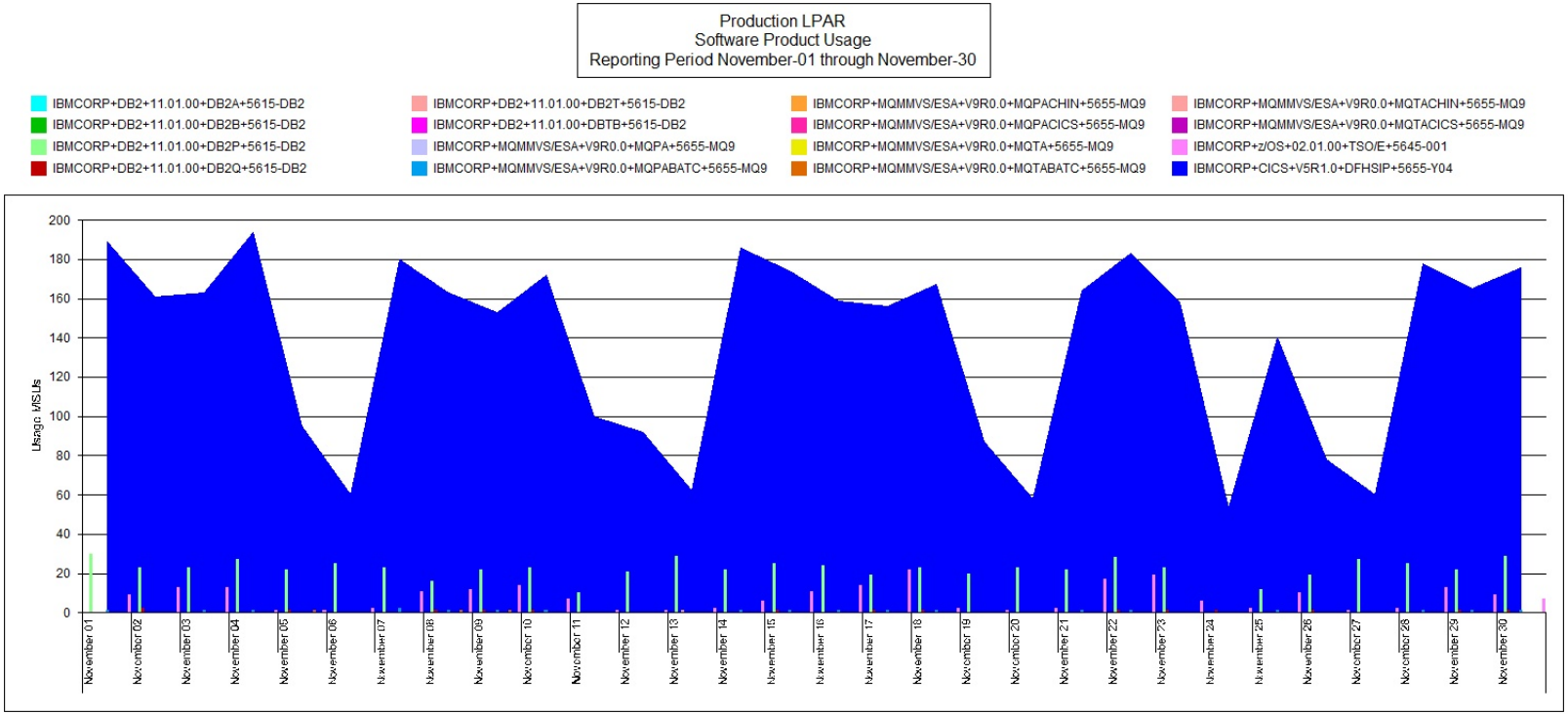
How are organizations managing the mainframe capacity?

- **Manual Reporting**
- **Automated Reporting**
- **Traditional SCRT Reporting**
- **Data Analytics of SMF/RMF data, Log files, Alert Logs**
- **Capacity Planning**
  - Trending
  - Analytical Modeling
  - Simulation Modeling

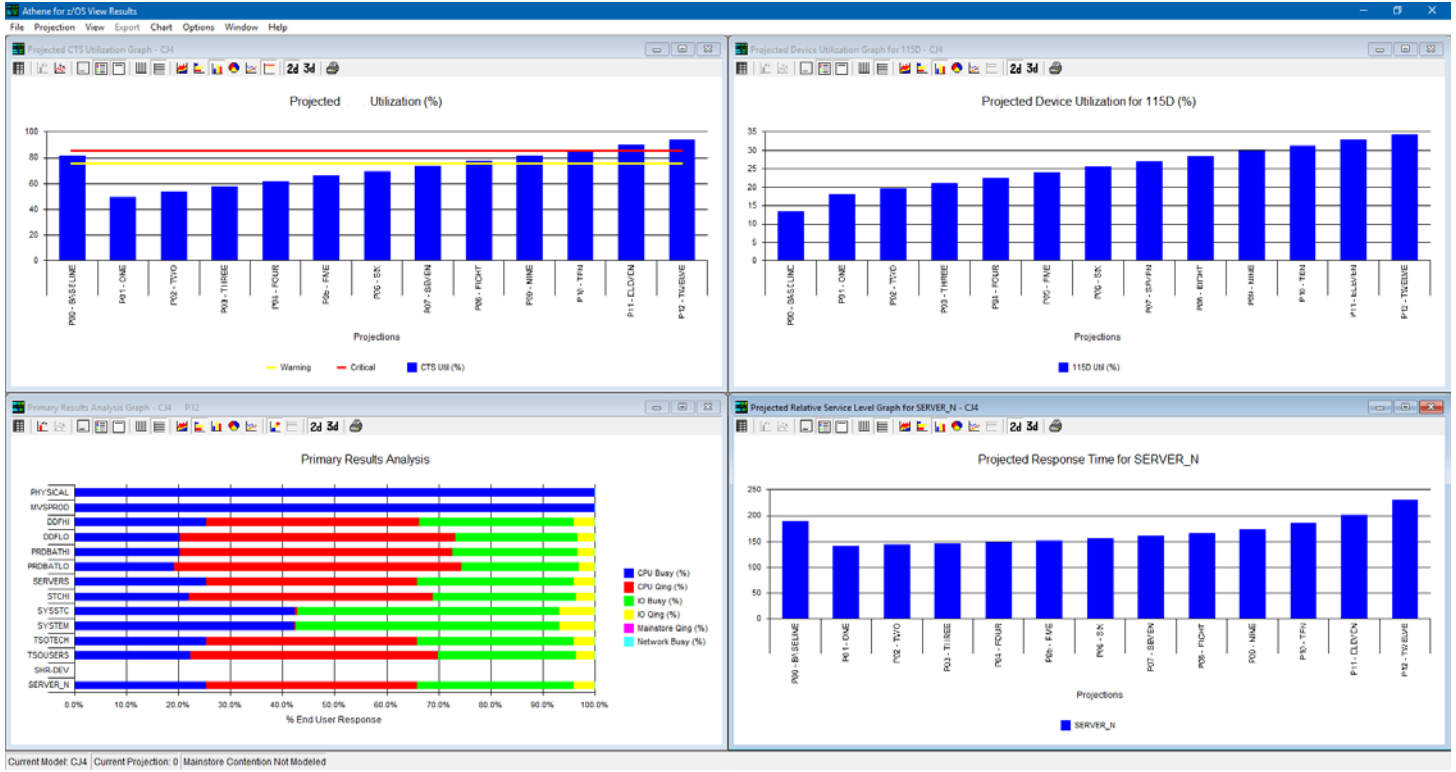
R4HA vs Service Classes



Product Usage by MSUs



Analytical Modeling



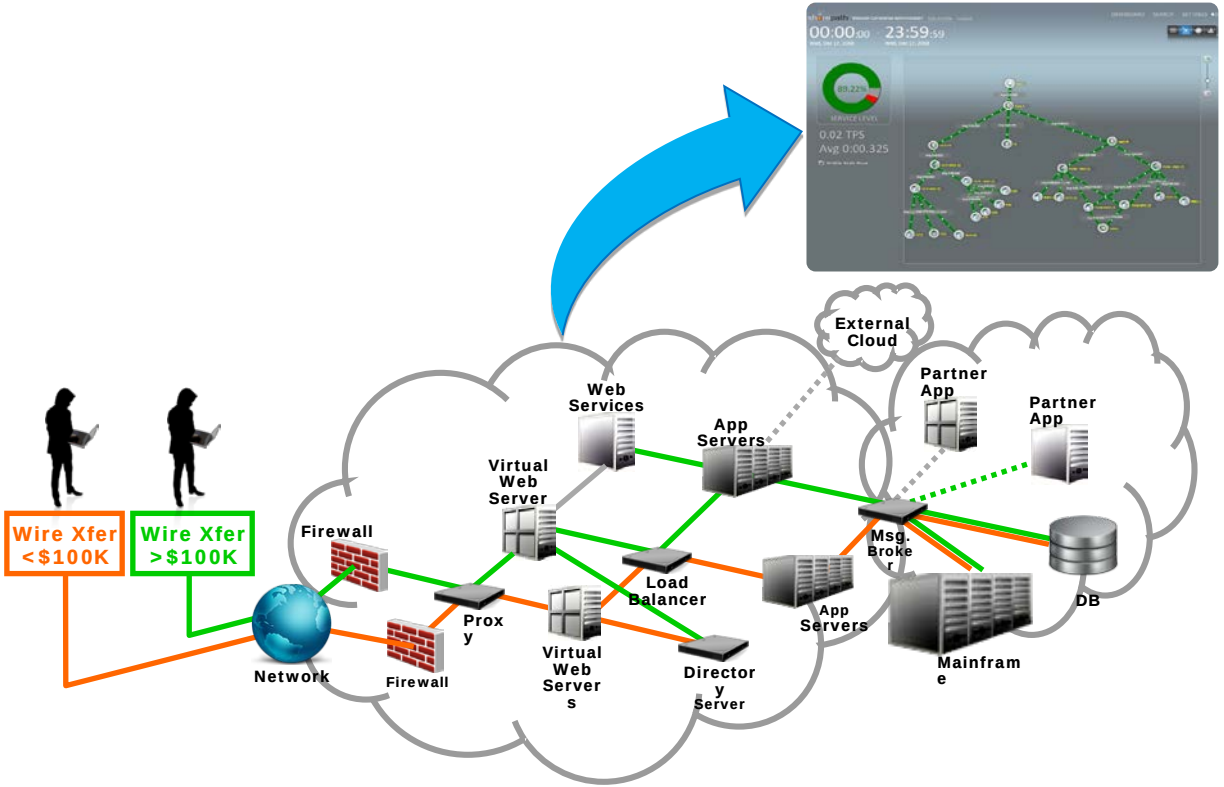
The changing Mainframe organization

- Dynamics of the Multi-tiered applications
- The Cloud and it’s affects
- Emphasis Business metrics and value
- Newer generation of individuals

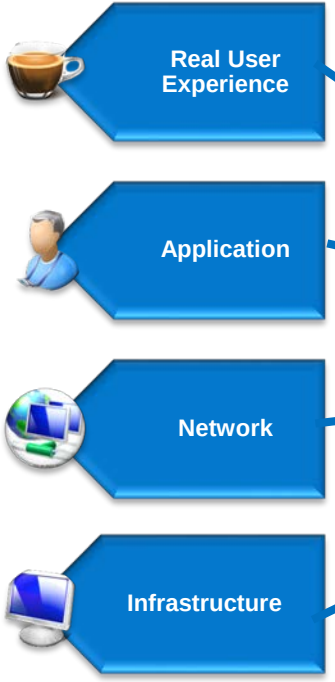
The Top 5 Performance and Capacity Management Challenges

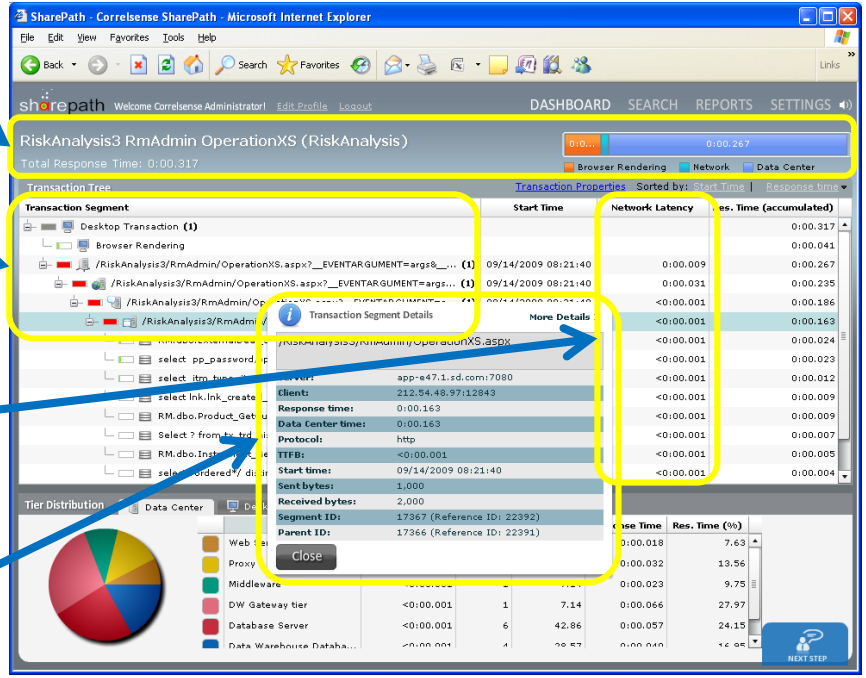
- Introduction of Cloud Applications
- New technologies for IBM z Systems
- Big Data & Analytics
- Complex Multi-Tier Applications
- The evolution of the Capacity Management staff

Dynamics of the Multi-tiered applications

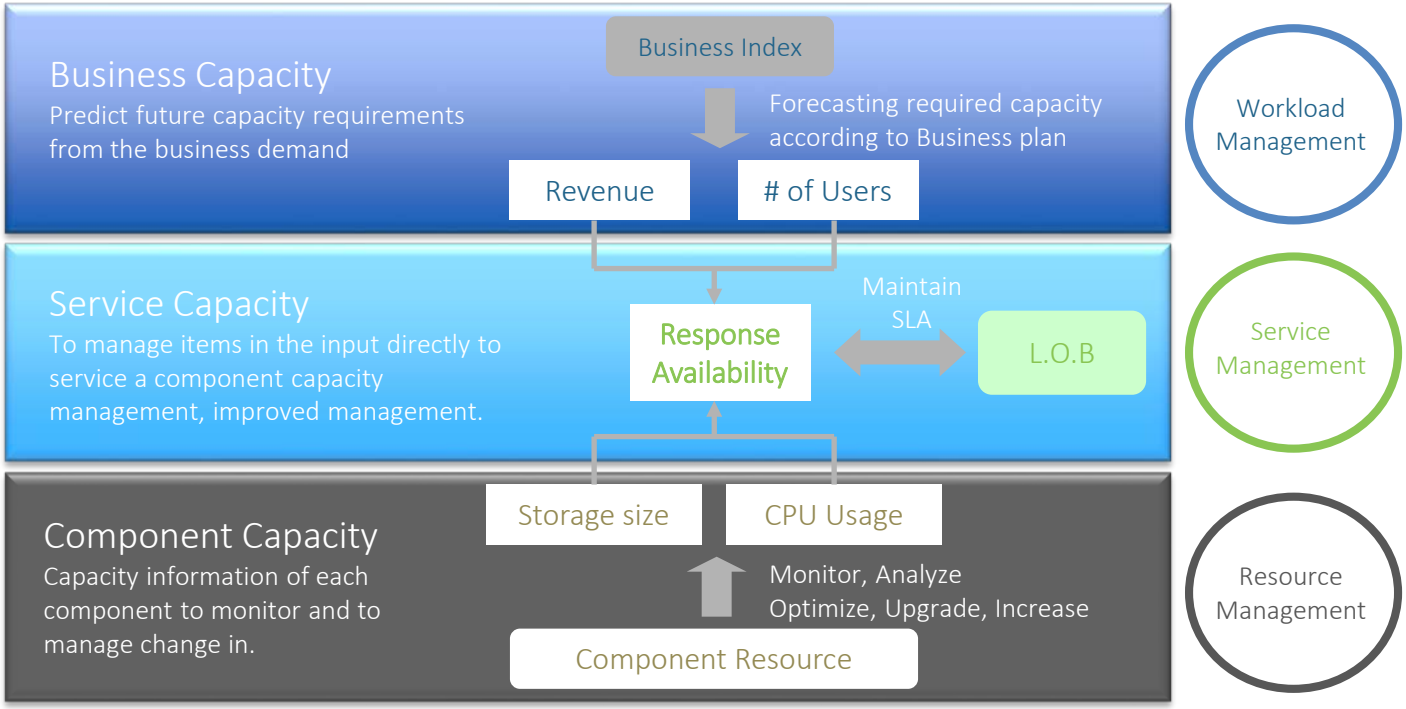


Aligning Business and IT for Optimized Planning

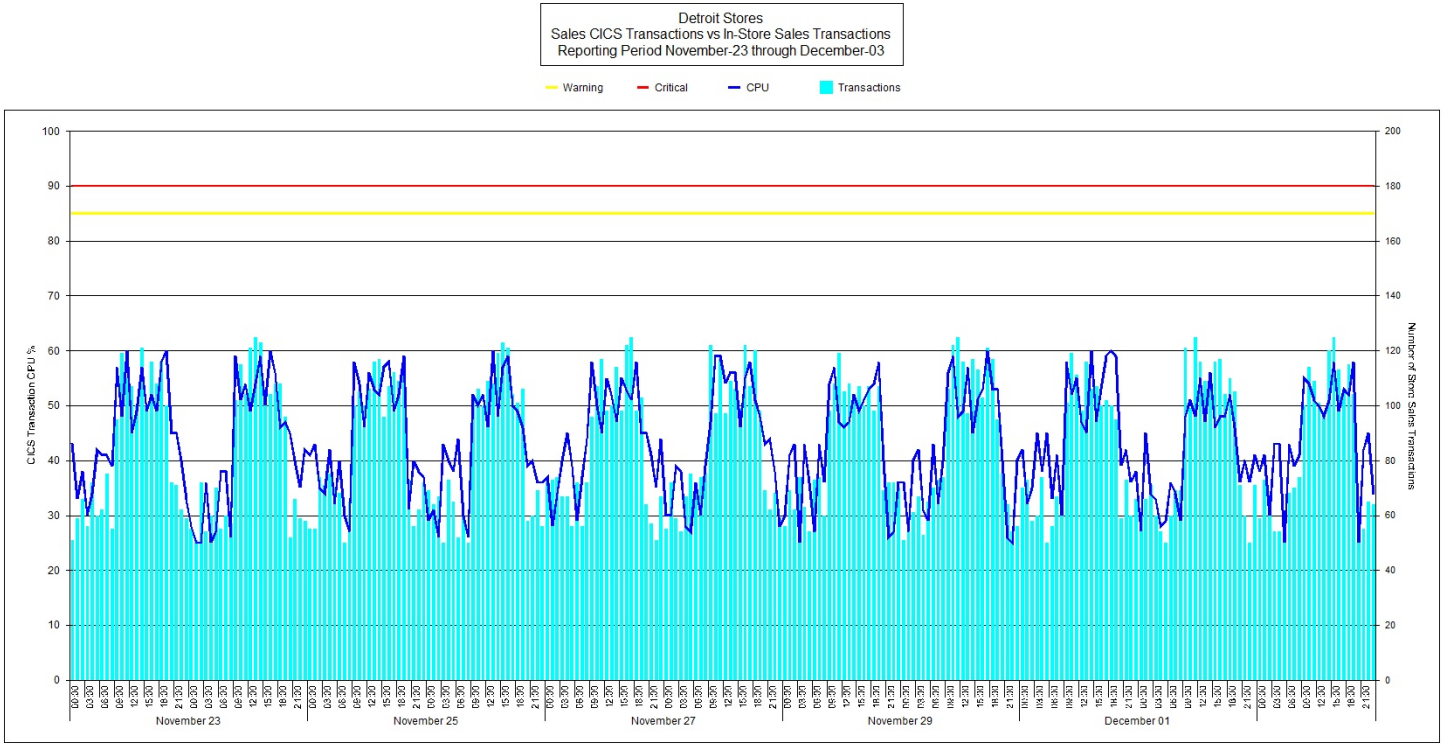




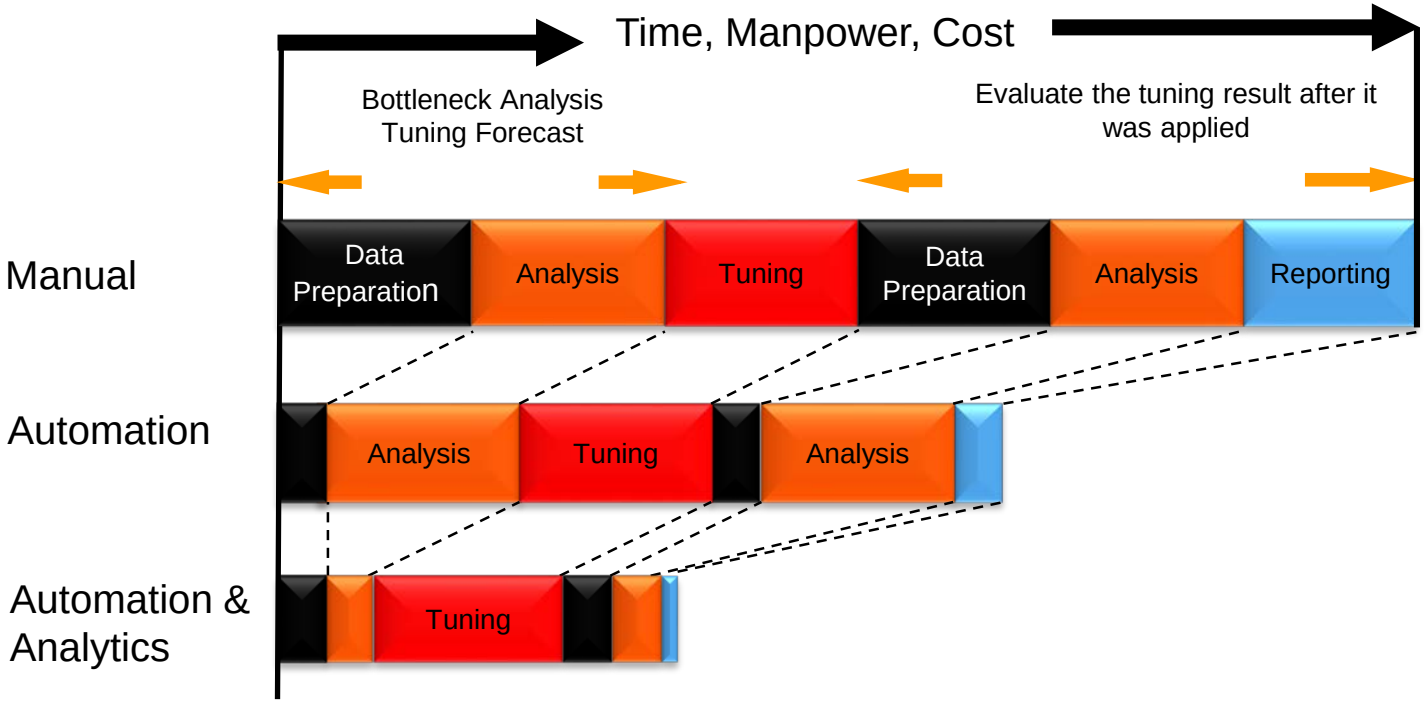
Capacity Management – Enterprise Perspective



Business Transaction vs CICS Transactions

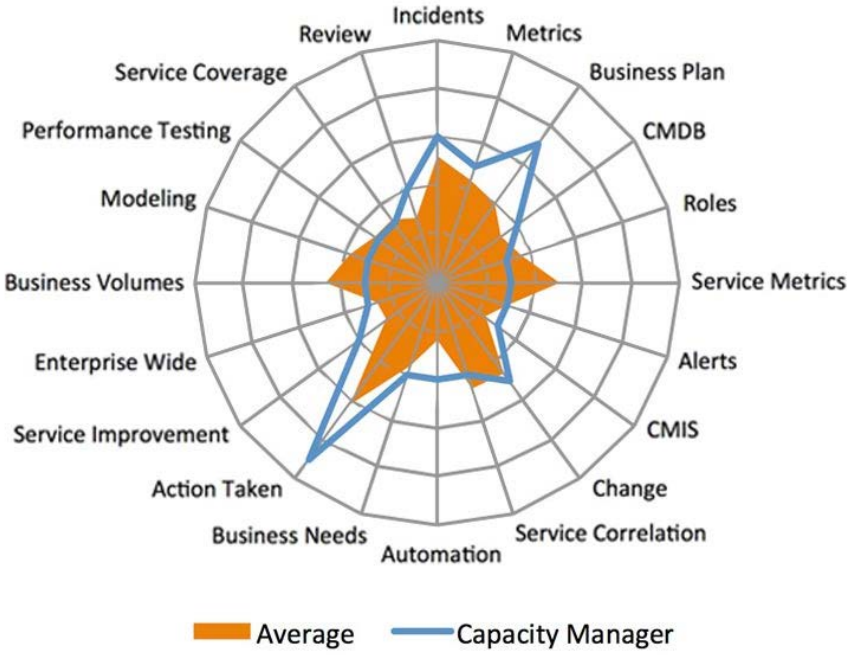


Capacity Management Manpower Reduction



How mature is your Capacity Management Process?

Assess your Capacity Management Maturity Level



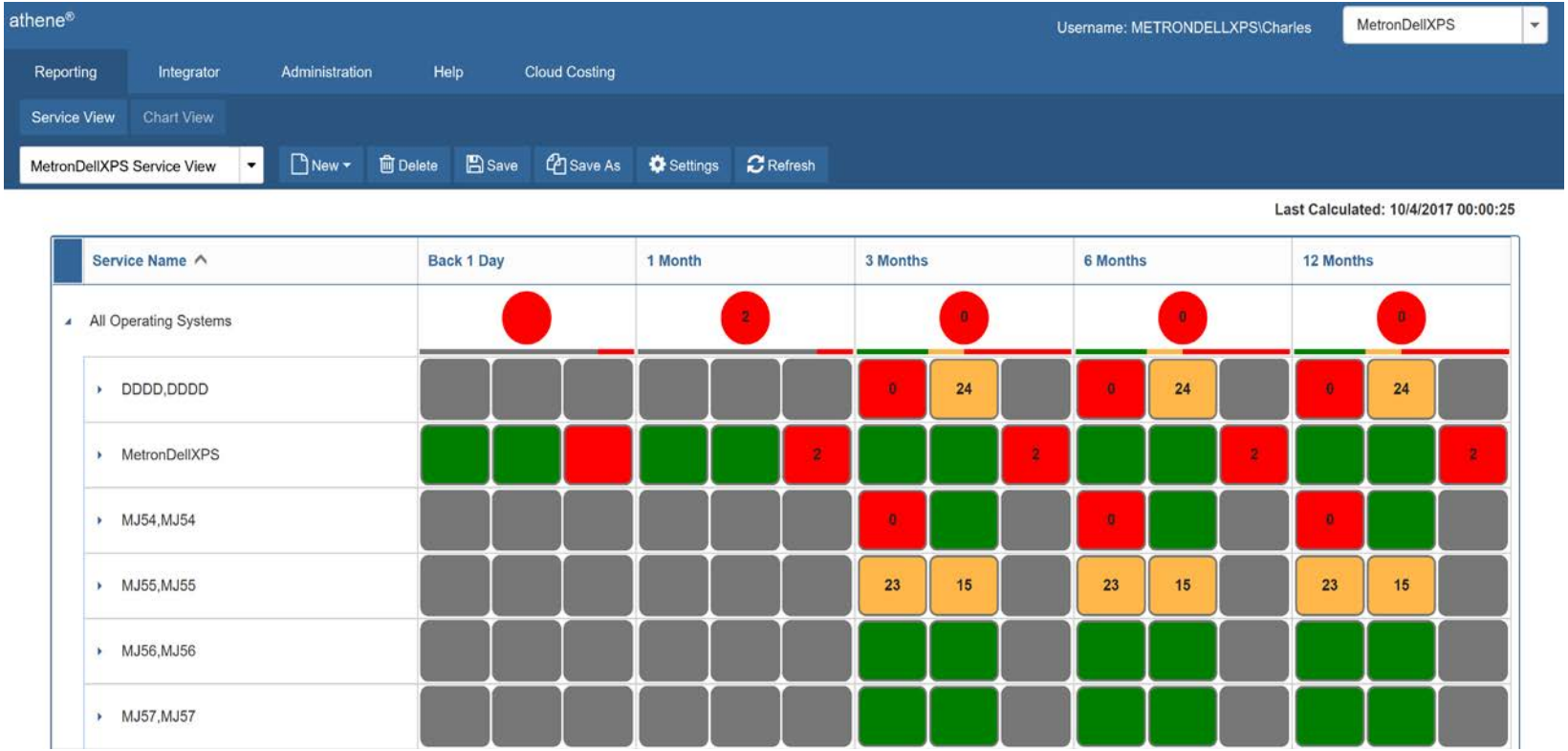
The impact of the Cloud on IBM z Systems

- It is already here
- Multi-Tier Applications
- IBM z Systems as a “Service”
- Dockers and Containers in zLinux
- IBM Cloud Managed Services

How does mainframe Capacity Management evolve?

- Embrace new technology along with artificial intelligence and data mining analytics
- Retool reporting showing Business and Service views for transactions
- Promote the knowledge and disciplines to less mature Capacity management areas (mentoring)

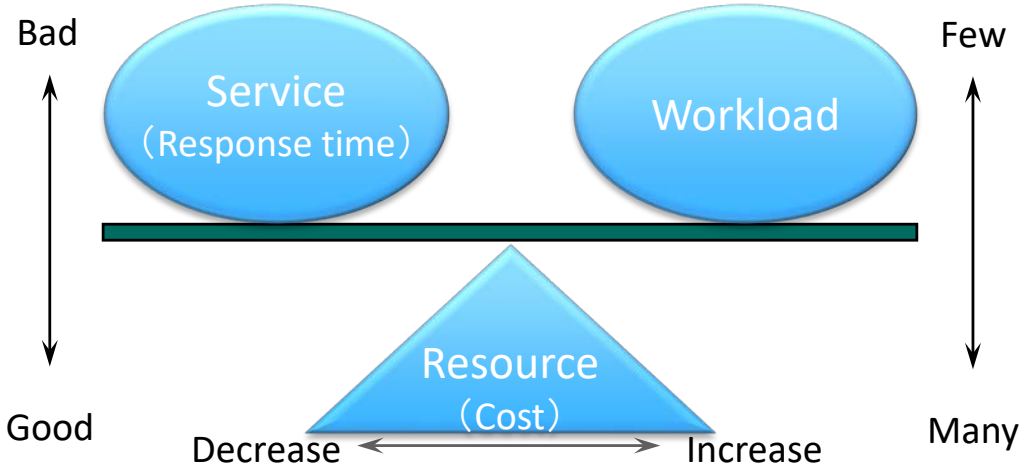
Service View Dashboard



Purpose of Mainframe Capacity Management

Understand your workloads and implement continuous system optimization equals

"Stable IT Service" and "Cost Saving"



Summary

- Determine the maturity and automation level of processes
- Mentor others within and outside the department
- Focus on Business and Service views
- Use new technologies to analyze and present information

QUESTIONS

THANK YOU

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