

Performance Monitoring and **Autonomic Computing**

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Abstract



In this session, the speaker will answer how to avoid being on the wrong end of service disruption conversions. Monitoring for critical events will allow you to take corrective actions and minimize the extent of an outage. Monitoring for performance will alert you to bottlenecks or the need to grow your configuration. Attend this session and get some ideas on how to use event and performance management to avoid service disruptions. When you get back to your shop you can apply many, if not all, of the suggestions offered with your own event and performance management products.





Agenda

- Autonomic Computing
 - What is it?
 - Why is it important?
 - What are the challenges?
 - How do we do it?
- Autonomic Opportunities
- Summary
- Questions and Answers





What is it?

- Self-protecting
 - Able to anticipate and cure intrusions
- Self-healing
 - Able to recover from mistakes
- Self-optimizing
 - Able to improve performance
- Self-configuring
 - Able to adapt to changes in the system





Why is it important?

- Cost
- Application economy
- Complexity



The Application Economy: Business Solutions on Demand





The Dynamic Data Center



Evolving Role of System z in the Application Economy

Business Responsiveness	Dynamic expansion/contract
Transaction Growth	Infinite Scalability
Cost Optimization platforms	Spans across
Emerging Opportunities	Rapidly adapts
Emerging Opportunities	Rapidly adapts



	CURRENT	0-18 MONTHS	12-36 MONTHS	
	Data Center	Private Cloud	Hybrid Cloud	
	Transaction Processing Engine	Cloud Component	Cloud Platform	
XUX	E			





Would you fly this?







With the same monitoring and control Systems that were in this?





Then why would you monitor this?







The way we monitored this?









Cost of Downtime

Type of Business	Average Hourly Impact
Retail Brokerage	\$6,450,000
Credit Card Sales Authorization	\$2,600,000
Home Shopping Channel	\$113,750
Catalog Sales Centers	\$90,000
Airline Reservations Centers	\$89,500
Cellular Service Activation	\$41,000
Package Shipping Service	\$28,250
On-line Network Connect Fees	\$25,250
ATM Service Fees	\$14,500





What are the Challenges?

- More users
- Overwhelming complexity
- Faster hardware (no one can type faster then the System can process
- Operating System sophistication(WLM Hyper Dispatch)



Can you spell "M.O.B.I.L.E"?!











....and IT cannot stop the trend



40% of IT executives say they allow their users to access corporate information with their own smartphone...

70% of users say they are already accessing corporate information with their own smartphone

-IDC





How Do We Do It?

Integration between Your Monitoring solution and your Automation and event Management solution

- Results in higher levels of system availability
- Performance data is available for automation decisions.
- Performance alerts can trigger an automation event.





How Do We Do It? (Cont.)

- Customers have deployed and configured these products to better meet the self-healing objectives required for continuous availability
- Provide automation for system monitoring when thresholds are exceeded



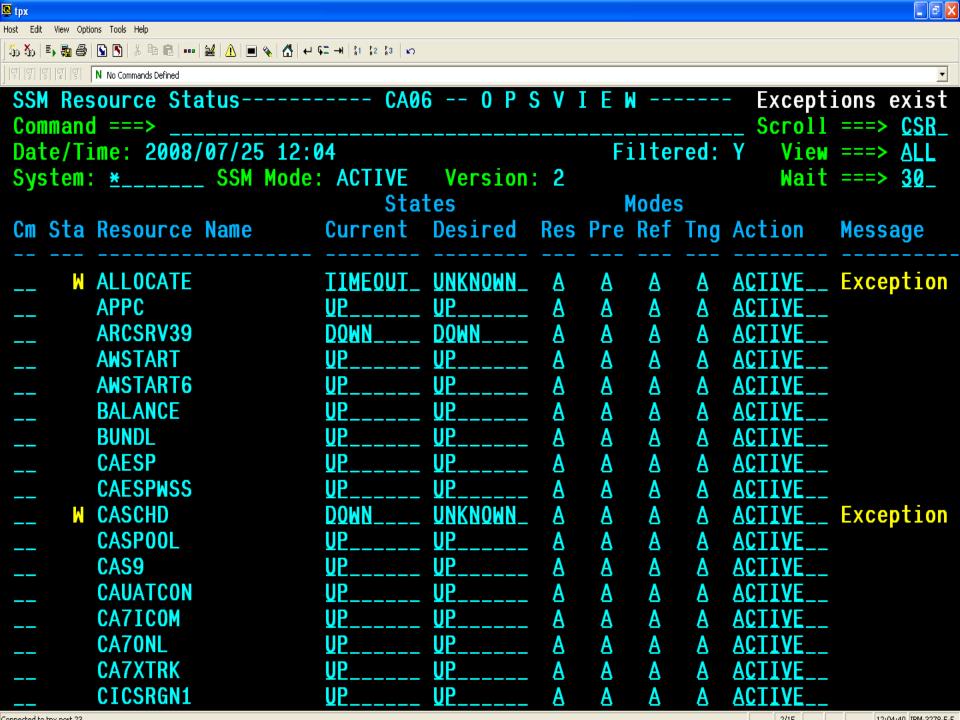


Autonomic Opportunities

- CICS Events such as Short on Storage (SOS)
- CICS Events such as Maximum Tasks (MXT)
- System Write to Operator (WTO) buffer shortages
- System Common Storage Area (CSA) shortages
- JES2 Spool Utilization Thresholds









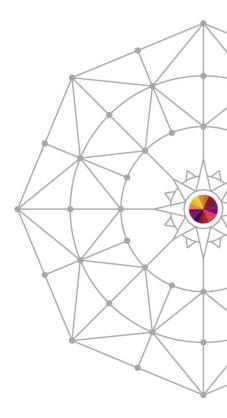
Common Storage Event

- Autonomic Attributes
 - Self Configuring
 - Self Healing
 - Self Protecting
 - Self Optimizing





LIVE DEMO



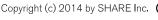
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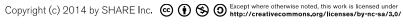
















Summary

- Operational efficiency
- Human resources
- Decrease costs
- Reducing complexity
- Enhancing agility



Questions



And Responses



Thank-you for Attending

Please fill out your session evaluations

