Session 9705
Roundtable Discussion: *Shaping the Future of Mainframe Professionals*

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SHARE 117, August 8, 2011
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Agenda

- Mainframe Simplification Initiative
- Your Input Driving Simplification
- Meet Casey: z/OS Senior System Programmer
- Meet Alice: z/OS Junior System Programmer
- Your Continued Input Driving Simplification
- Questions
- Comments?
Mainframe Simplification Initiative

- An IBM key initiative to simplify and modernize the mainframe for today’s and tomorrow’s Information Technology professionals.

- Simplification strategy
  - Optimize System Programmer tasks so a mixed skilled workforce can maximize their productivity and quality.
  - Help System Programmers who are new to the mainframe become productive quickly.
Your Input Driving Simplification

- Gathered input from customers at SHARE to understand your user experience as z/OS System Programmers.
  - Experience level, responsibilities, skills, people you work with, and more.
- Data used to develop personas that represent existing and future z/OS System Programmers.
  - Alice, Casey, and Zach
- Personas are used to drive our simplification solutions, by giving our System z design and development teams a better understanding of our end users’ goals and behavior patterns.
  - When designers are grounded in their own design, they risk designing an interface that only they can use.
  - Personas help our design teams make a smooth transition between requirements and design
Meet Casey: z/OS System Programmer

- Education: B.S. in Mathematics, minor in music, from ABC University
- Experience: 3 - 5 years as System Programmer, 3 years as Operator
- Team leader to 3 other experienced System Programmers, 1 junior System Programmer
- Will replace Zach, Sr. System Programmer, when he retires

Responsibilities include:

- Runs JK Enterprise’s mainframe IT environment
- Maintains z/OS systems
- Problem determination
- Deployment (Planning for Installation, Ordering, Testing, Put into production)
- Configuration tasks
- Documents processes and procedures
- Mentors new people and understands how to utilize their current skill set to develop their mainframe skills
Meet Alice: Junior z/OS System Programmer

- Education: B.S. in Information Technology
- Experience: 1 year in current position at JK Enterprises
- Works with mentor, Zach, an experienced senior System Programmer, and extended team.
- Responsibilities include:
  - A subset of planning, ordering, testing and problem determination tasks performed at JK Enterprise’s mainframe IT environment
  - Subset varies depending on size of shop
What Can We Add to These Personas?

- What do you think their goals are?
- Can we create a story about how Casey’s or Alice’s day might go?
- What kind of environment does she work in? (Can she focus on one task at a time, or are there interruptions?)
- What kinds of information will she need at what points in a day?
Your Continued Input Driving Simplification

- To date, our simplification efforts have focused on your user experience, primarily with z/OS system programming.
- As System Programmers, we want to understand your role working with others; such as an Operators, Hardware Engineers, Network Administrators, and other System Programmers.
- Understanding how your roles may have changed will allow us to focus on the correct simplification solutions and to update our personas.
Questions

- What barriers or challenges might you be experiencing in your roles today?

- Who in your shop uses the System z Hardware Management Console (HMC)?

- How often do you use the HMC?

- How much overlap in your roles is there working with System z hardware and HMC functions?
  - Some overlap may exist for: Workload Management, Capacity Planning, Storage and I/O Configuration.

- How can we improve your user experience working with the HMC?

- Have you used z/OSMF?

- Does having a web-based interface into z/OS help Casey, Alice or Zach?
Hybrid Environment Scenario

- Your company has purchased a new zEnterprise to use for a workload which runs across Power VM and z/OS and you plan to use the Unified Resource Manager (zManager) for the platform performance management functions. The Hardware Management Console is the interface to the functions in the zEnterprise.

  - How do you see your roles changing with the HMC, as the only interface to the zManager?

  - What benefits or challenges do you see in using the HMC’s zManager function?

  - How do you see roles changing with the introduction of the hybrid elements of the zEnterprise?
    - For example, if adding a Power blade, who is likely to add it to your environment?

  - What benefits or challenges do you see with moving to a hybrid environment?

  - How do you see yourself using the zManager function of the HMC?

  - Who, in addition to Casey and Zach, will have a role in working with the zEnterprise?

  - Are we succeeding with simplification with the changing technology?
**zEnterprise**

- zEnterprise optimizes workload deployment using a fully virtualized environment unified across 3 architectures (z, Power and x-86) and the following operating systems: z/OS, AIX, z/VM, Power VM, Linux.
- Extends platform management consistently across all supported hypervisor environments.
  - Management of hardware, firmware, and virtualization environments.
- Introduces zEnterprise ensemble as scope of platform management.
- Positions HMC as platform management console for the ensemble.
- Introduces goal-oriented platform resource management based on workload objectives.
- Unified Resource Manager, enables you to create an ensemble.
Roles for Managing a zEnterprise

- zEnterprise introduces a number of new roles, resources and tasks in the HMC
  - To help isolate tasks across their unique management disciplines
  - Flexible to customize based on you or your customer’s shop
- Added two new default users EnsOperator and EnsAdmin
- Allows you to create your own custom roles
- Allows you to customize based on user, resource, or task
- All provided within the HMC’s User Profiles and Customize User Controls tasks
## New Roles for zEnterprise

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
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<tbody>
<tr>
<td>Ensemble Admin</td>
<td>Responsible for creating and managing the zEnterprise ensemble. Create Ensemble, Add Member.</td>
</tr>
<tr>
<td>Virtual Network Admin</td>
<td>Responsible for Managing Virtual Networks, Hosts, and MAC Prefixes. Manage Virtual Networks, Add Hosts to Virtual Networks, Create VLAN IDs.</td>
</tr>
<tr>
<td>Virtual Server Admin</td>
<td>Responsible for managing virtual servers. Create /Modify Virtual Server, Add Virtual Disk, Migrate.</td>
</tr>
<tr>
<td>Virtual Server Operator</td>
<td>Responsible for performing and scheduling virtual server activation/deactivation, mounting virtual media. Activate, Deactivate, Mount Virtual Media, Console Session.</td>
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<tr>
<td>Storage Resource Admin</td>
<td>Responsible for managing storage resources – Storage Access Lists (SAL), WWPNs, z/VM Storage, Groups, Export WWPN, Import SAL, Add Storage Resources.</td>
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<tr>
<td>Workload Admin</td>
<td>Responsible for managing workloads. Create /Modify workload. Add / Remove Virtual Servers.</td>
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<tr>
<td>Performance Mgt Admin</td>
<td>Responsible for managing performance policies. Create /Modify Performance Policy, Import Policy.</td>
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<tr>
<td>Performance Mgt Operator</td>
<td>Responsible for performing and scheduling policy activations and creating threshold notifications. Activate, Export Policy, Monitor System Events.</td>
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<tr>
<td>Energy Mgt Admin</td>
<td>Responsible for managing power settings including power capping &amp; power savings modes. Set Power Cap, Set Power Savings Mode, Set zBX Power Policy.</td>
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Mainframe Simplification Presentations at SHARE

- 9804 - *What’s New in z/OSMF 1.13*, Tues 9:30 am
- 9708 - *Shaping the Future of IBM Documentation Delivery and Management*, Tues 6:00 pm
- 9737 - *z/OSMF User Experience*, Wed 3:00 pm
- 9715 - *Roundtable: You Talk We Listen: How Today's User Experience is Improving on Tomorrow*, Wed 6:00 PM
- 9736 - *z/OSMF Roundtable Discussion*, Wed 6:00 PM
- 9735 – *z/OSMF Hands-On Lab*, Thurs 11:00 am
Comments?