

z/OS 1.13 User Experience at Aetna

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aetnaSM

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Agenda

- Background
- Testing Environment
- Implementation
- ISV Compatibility
- Validation Items
- z/OS Management Facility topic
- Conclusions and ESP feedback

Background

- Eighth z/OS ESP experience
- Aetna's Environment:
 - Multiple SYSPLEXes ranging from one to many LPARs
 - All systems at z/OS 1.12 at start of project
 - All z196 processors located in 2 Data Centers
- Business schedule prevents implementation beyond high-risk environments

Testing Environment

- Test environment 2-way SYSPLEX
- Tested z/OS 1.12 with 1.13 in the SYSPLEX
- 2817(z196) processor
- 2817 int/ext Coupling Facilities @ CFCC 17

Testing Environment

- CICS/TS V4.1 & V4.2
- CICS Transaction Gateway 8.0 & 8.1
- CPSM V4.1 & V4.2
- DB2 V9.1 (RSU1108) & V10
- WebSphere Application Server V7.0
- MQ V7.01 & V7.1.0

Testing Environment

- Enterprise COBOL for z/OS 4.2
- XML Toolkit for z/OS V1.13
- JAVA for z/OS JDK V5.0 (SR12)
- JAVA for z/OS V6 (SR9)
- JAVA for z/OS V6.0.1
- C/C++ for V1.13
- HLASM Rel6
- z/OS 1.13 Binder
- SA for z/OS 3.3, PUT 1103
- Tivoli Netview V5.4
- 100+ ISVs

Implementation

- Prerequisite maintenance to z/OS 1.12
- Prerequisite maintenance to all IBM subproducts(CICS/DB2/MQ/WebSphere/Tivoli Omegamons)
- Prereq/upgrade for ISVs (where available)
- SERVERPAC install
- All maintenance received/applied weekly
- SYSRES - (2) M27

Implementation

- 1st IPL had a few hiccups
 - SYS1.SEUVLINK (as well as many other datasets) needed to be removed from LNKLST and also from several procs (ZFS and TFS).
 - Pathname for zosmfsizuroot was hardcoded with V1R12 and that needed to be changed to V1R13. Symbolic usage would be beneficial.
 - CA-TSS procedure accessing a GDG at IPL failed with a 05Cabend

Implementation

- A number of problems at the early stage:
 - CA-MIM causes B78 during IEBCOPYs
 - Compuware Abendaid for MVS relink batch job failing
 - SHOWMVS utility failing with 16D abend
 - Compuware Abendaid for CICS produces Warning Msgs
 - IBM – ISMF cannot generate a dasd volume report in batch
 - z/OS Management Facility core – Usernames/passwords w/Special Characters not accepted by z/OS Management Facility V1.13
 - z/OSManagement Facility ISPF internal error in initUSP

Implementation

- Problems Cont...
 - CA-PDSMAN FASTCOPY abends
 - ASG JobScan returns invalid job Parameter(JOBRC)
 - Zfs/hfs mount/unmount issues in ISHELL
 - FTP - Default OMVS UID does not get assigned correctly
 - TCPIP Resolver starting up TWICE and wiping out TCPPARMS set from 1st execution.
 - Tivoli ITCAM for AD V7.1 script failing
 - CIM server will need a zfs file expansion

ISV Compatibility

- Overall excellent result
- One issue open as of Feb 7th – IBM DFSMSDSS, ISMF
 - APAR OA37770 ETA 2/29/2012

ISV Compatibility

- CA Top Secret V15
 - FTP issues with ids that had no OMVS Segment defined: (Fix RO19158 RO25204 & RO25587 corrected)
 - z/OS Management Facility initUSP issue corrected with TR36860
 - Mount/unmount zfs issue, corrected with RO35644
- CA Top Secret V14
 - Mount/unmount zfs issue, corrected with BIT9142
- CA Netspy V12
 - toleration fixes Tz57134 Tz57128 Tz57138 Ro26309 Ro30868 Ro30962 Ro25810 Ro30290 Ro25808 Ro25755 Ro23215

ISV Compatibility

- IBM TDMF V5.2 & fix OA35928
- CA PDSMAN V7.7.0
 - RO21122 RO21534 RO22426 RO23088 RO24163 RO24296
RO24391 RO25866 RO28420 RO28618 RO33883 RO36320
RO37159 RO38262
- IBM Tivoli Omegamon products have compatibility fixes
 - Use FIXCAT IBM.TargetSystem-RequiredService.z/OS.V1R13 to find fixes (OA35624, OA35635, OA35652)
- DTS DIF 5.1.14 required. If you use DADSM in your ACC rules, you should upgrade to DIF 5.1.18.
- IBM DB2 V9 UK69734 and UK69742
- CA-MICS V12.6 recommended. To exploit new 1.13 functions you will need RMF6940 and SMF6940 product changes
- CA-MII caused IEBCOPY issues, corrected with RO32780(V11.7) and with RO32539 for MII V11.8

ISV Compatibility

- Compuware products:
 - Abendaid/ CICS V12.02 will eliminate the warning message
 - Abendaid/MVS V12.1
 - T46013Y, T59660Y and V59660W for the JES interface relink issue.
 - Shared Services V8.8 recommended
 - Xpediter/CICS V9.1 recommended
- Open Tech Systems Tape Copy V2.73 PTF2 or higher needed
- CA PMO V4.3 & fix T5QV282 or CA PMO V4.4 upgrade with T5QV284
- SHOWMVS V7.2 required
- CA Roscoe requires fix T5QV280 for a warning message

ISV Compatibility

- Startool upgraded to V7.7.1.30 to fix LISTENV function
- ASG Jobscan V7.6 required for new JCL JOBRC
- IBM Tivoli ITCAM for AD V7.1.0 + APAR PM57182 to fix a scripting issue.
- Serena Software, Mainframe Connect – MFC V15.0 ESD05 certified per vendor but not GA yet. We tested with ESD04 successfully(not certified, however)

Validation Items

- Latch Identity for D GRS, C
- New ISGQUERY request types
- Network – System Resolver
- DFSMS HSM: Support for BEGIN and END
- Runtime Diagnostic Support

Validation Items

- JES2 batchmod and JES2 support for JOBRC and JCL instream datasets
- JES2 support: Extend Spool and Spool Migration
- PFA – Damaged System ENQ Usage, Critical JES2 resource utilization and Invocation of PFA and Runtime Diagnostics to Detect Hang Address Space
- DFSMS OCE: add text to explain ABENDS

z/OS Management Facility... What is it?

z/OS Management Facility is an interface of the z/OS operating system that was introduced with z/OS 1.11. This is part of the overall z/OS simplification initiative.

- Web browser based

- Task Oriented

- The focus is management of z/OS

- Tooling improvements for system programmers

z/OS Management Facility Technology

Based on WEB 2.0 technologies

Javascript

DOJO

HTTP(s) to client

Server based on WAS OEM V7

A standalone WebSphere V7 server

z/OS data and services from

CIM Server

CEA

SYSREXX

DAE

Logger

Others...

z/OS Management Facility V1R11, V1R12 & V1R13 Functions

z/OS Management Facility provides the following user interfaces (Plug-Ins):

Introduced with z/OS Management Facility R11

- Configuration Assistant for z/OS Communication Server

- Incident Log

- z/OS Management Facility Administration

- Links

Introduced with z/OS Management Facility R12

- Monitoring Desktops

- Sysplex Status

- Workload Manager Policy Editor

NEW with z/OS Management Facility R13

- ISPF

- Software Deployment

- Capacity Provisioning

z/OS Management Facility V1R13 Components

z/OS Management Facility V1.13 consists of nine (9) FMIDs:

HBBN700 - IBM WebSphere Application Server OEM Edition for z/OS v7

HSMA130 - z/OS Management Facility core

HSMA131 – z/OS Management Facility ISPF

HSMA132 - z/OS Management Facility RMF

HSMA133 - z/OS Management Facility WLM

HSMA134 – z/OS Management Facility Software Deployment

HSMA135 - z/OS Management Facility Incident Log

HSMA136 – z/OS Management Facility Capacity Provisioning

HSMA13A - z/OS Management Facility Configuration Assistant

z/OS Management Facility V1R13 Dependency, Installation and Configuration overview

WAS OEM V7 is the runtime environment needed for z/OS Management Facility. This environment must be configured first in order to deploy the z/OS Management Facility application.

z/OS Management Facility Installation:

Choice of Server Pack or CBPDO ordering

Done via SMPE

Plug-Ins now have their own FMIDs

z/OS Management Facility Configuration:

Detailed worksheets ease configuration by reflecting Pre-requisites

REXX scripts are customized for the selected plug-ins that are to be installed

Upon successful deployment and verification a URL address is generated to access the z/OS Management Facility Welcome page. The predefined UID and PASS will be needed for logon.

Internal and external security setup.

z/OS Management Facility V1R13 Enhancements

With z/OS Management Facility R13, existing tasks received enhancements:

Incident Log:

Supports browsing the error log, error log summary and operations log

Supports managing FTP servers and FTP profiles in the Send Diagnostic Data wizard as well as a locking mechanism which prevents multiple users from modifying a single FTP server/profile at the same time.

Shares the FTP server/profile with the Software Deployment task

Uses the z/OS Problem Determination Upload utility

Uses system temporary datasets instead of /tmp when compressing

Users and Roles:

Offers an alternative mode for managing user authentication and authorization in z/OS Management Facility – the SAF authorization mode.

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z/OS Management Facility V1R13 New Tasks, Testing and Validation

As part of the ESP we were asked to validate various line Items. Enhancements and New Tasks were put to the test throughout the ESP period.

Software Deployment – This task is used to deploy any SMP/E packaged and installed software and to identify software requisites and possible regressions.

ISPF – Use this task to access the ISPF application on your host system through z/OS Management Facility.

Both new plug-ins were tested and positive results shared with IBM.

- Welcome
- [-] Configuration
 - Configuration Assistant
- [-] Links
 - ShopzSeries
 - Support for z/OS
 - System z Redbooks
 - WSC Flashes & Techdocs
 - z/OS Basics Information Center
 - z/OS Home Page
 - z/OS Internet Library
- [-] Performance
 - Resource Monitoring
 - System Status
 - Workload Management
- [-] Problem Determination
 - Incident Log
- [-] Software
 - Deployment
- [-] z/OS Classic Interfaces
 - ISPF
- [-] **z/OSMF Administration**
 - Application Linking Manager
 - Links
 - Roles
 - Users

Welcome ×

Welcome to IBM z/OS Management Facility

IBM® z/OS® Management Facility (z/OSMF) provides a framework for managing various aspects of a z/OS system through a Web traditional tasks and automating others, z/OSMF can help to simplify some areas of z/OS system management.

To learn more about z/OSMF, visit the links in the Learn More section.

To start managing your z/OS systems, select a task from the navigation area.

Learn More:

[What's New](#)

[z/OSMF tasks at a glance](#)

[Getting started with z/OSMF](#)

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z/OS and z/OS Management Facility - ESP feedback

The z/OS & z/OS Management Facility V1.13 ESP was a great experience as it allowed us to:

- Get an early view for the new z/OS Management Facility interfaces
- Access additional IBM support and other customer experiences via Customer Connect forums
- Provide a user's perspective for new functionalities
- Provide IBM development with feedback for product enhancement to benefit our System Installation

Overall a very positive experience AND you should consider joining an ESP!

z/OS Management Facility Reference Material:

z/OS Management Facility Web Page <http://www.ibm.com/systems/z/os/zos/zosmf/>

IBM z/OS Management Facility (R13) User's Guide

IBM z/OS Management Facility (R12) Configuration Guide SA38-0652-03

IBM z/OS Management Facility (R13) Configuration Guide SA38-0652-05

IBM WebSphere® Application Server OEM Edition for z/OS Configuration Guide, Version 7.0, GA32-0631-02