

Session 9707:

SMP/E V3.5 Hands-on Lab: Learning to use SMP/E FIXCATs

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Learning to use SMP/E FIXCATs

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Agenda

- Brief review of SMP/E V3.5
- Lab SMP/E Environment
- Lab Exercises
 - Upgrade existing SMP/E Global, target, and distribution zones to the new SMP/E V3.5 level.
 - Run an SMP/E RECEIVE command to receive the new FIXCAT HOLDDATA.
 - Use the Fix Category Explorer to create a persistent list of categories that you are interested in.
 - Run a REPORT MISSINGFIX command to identify missing fixes.
 - Use the SMP/E ISPF Command Generation Dialogs to run a REPORT MISSINGFIX command.

Using SMP/E Advanced Functions: Hands-on Lab

SMP/E V3.5 became available 26 September 2008 as an IBM Program Product which can be installed on top of all supported z/OS releases, and as part of z/OS V1.10. SMP/E V3.5 simplifies the task of verifying that required software fixes for new hardware devices, toleration and coexistence of new software releases, and for enabling new functions are installed. IBM consolidates the lists of required fixes from PSP buckets and produces new Fix Category (FIXCAT) HOLDDATA to identify those fixes.

Come to this lab to learn how to upgrade to SMP/E V3.5, and use the new FIXCAT HOLDDATA. You will learn how to use the new SMP/E Explorer, and how to use the new SMP/E REPORT MISSINGFIX command. If you are tired of manually looking at PTFs in PSP buckets, this is something you must attend.

Learning to Use SMP/E FIXCATs Hands-On Lab

SMP/E V3.5 Introduction



- **IBM SMP/E for z/OS Version 3 Release 5**
 - Program number 5655-G44
 - Entitled (no additional charge) to licensees of all currently supported z/OS releases.
- **Availability:**
 - SMP/E V3.5 is an independent and separately orderable product, and
 - SMP/E V3.5 is a base element of z/OS V1.10, z/OS V1.11, and z/OS V1.12
- **Ordering and Delivery**
 - Individual product order via ShopzSeries (CPBDO package)
 - Both physical and Internet delivery options available
 - Included in system replace ServerPac orders for z/OS V1.10, z/OS V1.11, and z/OS V1.12

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Current process for 'New Hardware, Release or Function' Service



- 1. Identify PSP Buckets to review**
- 2. Review required service from the PSP Buckets and Product Documentation**
 - Hardware buckets for required service for device support or exploiting specific hardware functions.
 - Software buckets for recommended service to be installed when you install a software release
 - Functional buckets for the list of Service Recommendations needed for the function
 - Product documentation for “driving system”, coexistence, and cross product target system functional requirements
- 3. Acquire the missing service and install all required service**
- 4. Monitor PSP Bucket – as needed**
 - Can use Enhanced PSP Tool to identify un-installed PSP Bucket service, and then acquire and install missing fixes.

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Problems with the Current Methods



1. Procedure is very manual
2. The tools are **NOT** integrated into your existing processes
 - Extract files are not delivered when service is acquired
 - Report program is not part of SMP/E
 - No easy way to acquire or APPLY missing service
3. The procedure is geared to process one SUBSET at a time (when multiple SUBSETS are required)
4. Because of the above, many of you do NOT analyze PSP buckets
 - Or if you do,
 - You do not actively monitor updates in PSP buckets
 - You do not review hardware and functional buckets when you install new software levels (FMIDs).
5. There is no easy way to identify new hardware or functional buckets, or establish a list of buckets that are of interest.

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Learning to Use SMP/E FIXCATs Hands-On Lab

New Fix Category *HOLDDATA*



- Create metadata that associates PTFs with one or more fix categories
 - Such as fixes needed for:
 - Specific hardware levels
 - New software FMIDs
 - Enabling new hardware and software functions
- Deliver the metadata with existing PTF and *HOLDDATA* acquisition procedures.
- Integrate verification and installation tasks within typical SMP/E operations.

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Sample FIXCAT *HOLDDATA*

```

++HOLD(HDZ1B10) FIXCAT FMID(HDZ1B10) REASON(AA32004) RESOLVER(UA54754)
CATEGORY(IBM.ProductInstall-RequiredService, IBM.Function.VSAM-RLS)
DATE(10193) .
++HOLD(HDZ1C10) FIXCAT FMID(HDZ1C10) REASON(AA32004) RESOLVER(UA54755)
CATEGORY(IBM.ProductInstall-RequiredService, IBM.Function.VSAM-RLS)
DATE(10193) .
++HOLD(HBB7740) FIXCAT FMID(HBB7740) REASON(AA32081) RESOLVER(UA55256)
CATEGORY(IBM.Device.Server.z10-EC-2097, IBM.Device.Server.z10-BC-2098)
DATE(10194) .

```

What is a fix category?

IBM Fix Category Values and Descriptions

What is a fix category?

- A fix category is an identifier used to group and associate PTFs to a particular category of software fixes.
- A fix category might be used to identify a group of fixes that are required to support a particular hardware device, or to provide a particular software function, similar to how a preventive service planning bucket (PSP-bucket) identifies a group of PTFs.
- Fix categories are supplied to you in the form of SMP/E FIXCAT HOLDDATA statements.
- Each FIXCAT HOLDDATA statement associates an APAR and its fixing PTF to one or more fix categories.

What fix categories are available

- A description of all IBM provided fix categories is available on the web

- <http://www-03.ibm.com/systems/z/os/zos/smpe/fixcategory.html>

How do I acquire FIXCAT HOLDDATA statements?

- For all IBM product and service offerings, SMP/E FIXCAT HOLDDATA statements are supplied in the same file as ERROR HOLDDATA statements.
- This file is available using SMP/E RECEIVE ORDER, ShopzSeries, ServiceLink, CBPDO, ProductPac, ServerPac, SystemPac, and on the Enhanced HOLDDATA web site ("full" 2 year file only).

- <http://service.software.ibm.com/holdata/390holddata.html>

A fix category is an identifier used to group and associate PTFs to a particular category of software fixes. A fix category might be used to identify a group of fixes that are required to support a particular hardware device, or to provide a particular software function, similarly to how a preventive service planning bucket (PSP-bucket) identifies a group of PTFs. Fix categories are supplied to you in the form of SMP/E FIXCAT HOLDDATA statements. Each FIXCAT HOLDDATA statement associates an APAR and its related fixing PTF to one or more fix categories.

During SMP/E RECEIVE command processing, SMP/E translates fix category values into source IDs and assigns them to the resolving (fixing) PTFs identified on the HOLDDATA. You can then use the fix category values as source IDs when selecting a set of PTFs to be applied. For example, if you have a z/OS V1.11 target zone named ZOSR11T, you can attempt to install all required coexistence and fallback fixes for z/OS V1.12 that have already been received by using the following command:

```
SET BDY(ZOSR11T) .
  APPLY SOURCEID(IBM.Coexistence.z/OS.V1R12) CHECK.
```

In addition, the SMP/E REPORT MISSINGFIX command can be used to identify PTFs for interesting fix categories that are missing in one or more target zones. In this case only the latest HOLDDATA needs to be received and not the individual resolving PTFs. For example, using the same zone as described above, you can identify all required coexistence and fallback fixes for z/OS V1.12 that are not yet applied in the ZOSR11T zone by using the following command:

```
SET BDY(GLOBAL) .
  REPORT MISSINGFIX ZONES(ZOSR11T)
  FIXCAT(IBM.Coexistence.z/OS.V1R12) .
```

For more information about the SMP/E APPLY or REPORT MISSINGFIX commands, see the [SMP/E Commands](#) book. For a discussion on how fix categories can be used to replace the service recommendation section of PSP-buckets, see "[SMP/E 3.5 - Simplifying PSP buckets](#)".

How do I acquire FIXCAT HOLDDATA statements?

For all IBM product and service offerings, SMP/E FIXCAT HOLDDATA statements are supplied in the same file as ERROR HOLDDATA statements. This file is available using SMP/E RECEIVE ORDER, ShopzSeries, ServiceLink, CBPDO, ProductPac, ServerPac, SystemPac, and on the [HOLDDATA website](#) (full 2 year file only).

Fix category descriptions

The following tables identify and describe the fix category values currently used by IBM.

Installation categories

The following fix categories identify fixes that are recommended when installing or deploying new software product release levels.

Fix categories	Description
IBM.Coexistence.z/OS.V1R10	Fixes that allow z/OS V1.8 and z/OS V1.9 to coexist with, and fallback from, z/OS V1.10.
IBM.Coexistence.z/OS.V1R11	Fixes that allow z/OS V1.9 and z/OS V1.10 to coexist with, and fallback from, z/OS V1.11.
IBM.Coexistence.z/OS.V1R12	Fixes that allow z/OS V1.10 and z/OS V1.11 to coexist with, and fallback from, z/OS V1.12.
IBM.Coexistence.z/OSMF.V1R12	Fixes that allow z/OSMF V1.11 to coexist with, and fallback from, z/OSMF V1.12.
IBM.Coexistence.ICSF.z/OS_V1R9-V1R11-HCR7770	Fixes that allow prior levels of ICSF to coexist with, and fallback from, the Cryptographic Support for z/OS V1.9-V1.11 web deliverable (FMID HCR7770).
IBM.ProductInstall-RequiredService	Fixes that must be installed for an IBM product at the time the product is installed.
IBM.TargetSystem-RequiredService.z/OS.V1R11	Fixes required on other IBM products to allow them to run on z/OS V1.11.
IBM.TargetSystem-RequiredService.z/OS.V1R12	Fixes required on other IBM products to allow them to run on z/OS V1.12.
IBM.TargetSystem-RequiredService.z/OSMF.V1R11	Fixes required on other IBM products to enable z/OSMF V1.11 to run.
IBM.TargetSystem-RequiredService.z/OSMF.V1R12	Fixes required on other IBM products to enable z/OSMF V1.12 to run.

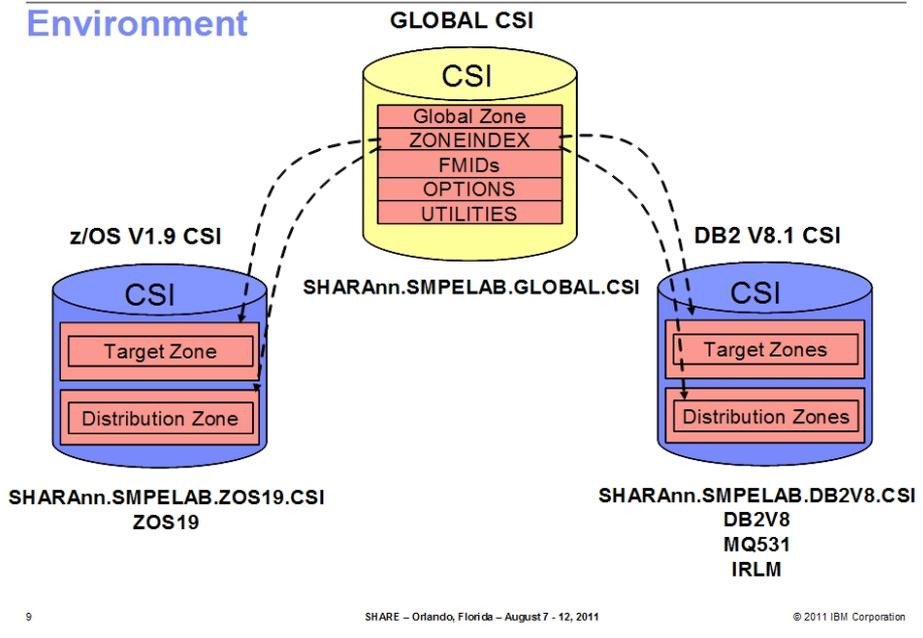
The complete list of fix categories is on the web:

<http://www-03.ibm.com/systems/z/os/zos/smpe/fixcategory.html>

Lab Agenda

- Upgrade existing SMP/E Global, target, and distribution zones to the SMP/E V3.5 level.
- Run an SMP/E RECEIVE command to process the FIXCAT HOLDDATA
- Use the Fix Category Explorer to create a persistent list of categories that you are interested in
- Run a REPORT MISSINGFIX command to identify
 - z10 maintenance not currently installed
 - Coexistence maintenance for z/OS V1.10 not currently installed
 - Software PSP bucket maintenance not currently installed
- Use the SMP/E ISPF Command Generation Dialogs to run a REPORT MISSINGFIX command

Environment



Exercise Steps

1. Log on to Poughkeepsie system
2. Use the SMP/E ISPF Dialog to verify your copy of the SMP/E GLOBAL CSI data set is correct
3. Run the SMP/E RECEIVE command to process HOLDDATA
4. Run the SMP/E UPGRADE command to enable SMP/E to process FIXCAT HOLDDATA
5. Use the SMP/E ISPF Dialog to verify that the UPGRADE level of your GLOBAL zone has been updated
6. Rerun the edited RECEIVE job

Exercise Steps

1. Log on to Poughkeepsie SHARE/EXPO system
 - (a) Enter "TSO" from the PCOM emulation session
 - (b) Enter the USERID that you were given
 - (c) On the TSO/E Logon panel enter the password, FIRSTPW
2. Use the SMP/E ISPF Dialog to verify your copy of the SMP/E GLOBAL CSI data set is correct
 - (a) Query the GLOBAL zone entry
 - (b) Exit the dialog
3. Run the SMP/E RECEIVE command to process HOLDDATA
 - (a) Edit the JCL to RECEIVE the HOLDDATA, changing USERID to your userid
 - (b) Submit the job
 - (c) Save the JCL changes
 - (d) Go to SDSF to view output
 - (e) Notice the SMP/E warning message that was produced
4. Run the SMP/E UPGRADE command to enable SMP/E to process FIXCAT HOLDDATA
 - (a) Submit the UPGRADE job, changing USERID to your userid
5. Use the SMP/E ISPF Dialog to verify that the UPGRADE level of your GLOBAL zone has changed
 - (a) Query the GLOBAL zone entry
6. Rerun the edited RECEIVE job
 - (a) Submit the edited job
 - (b) Go to SDSF to view output
 - (c) Notice that the command now completed with a zero (0) return code, and numerous FIXCAT HOLDS were processed

Exercise Steps...

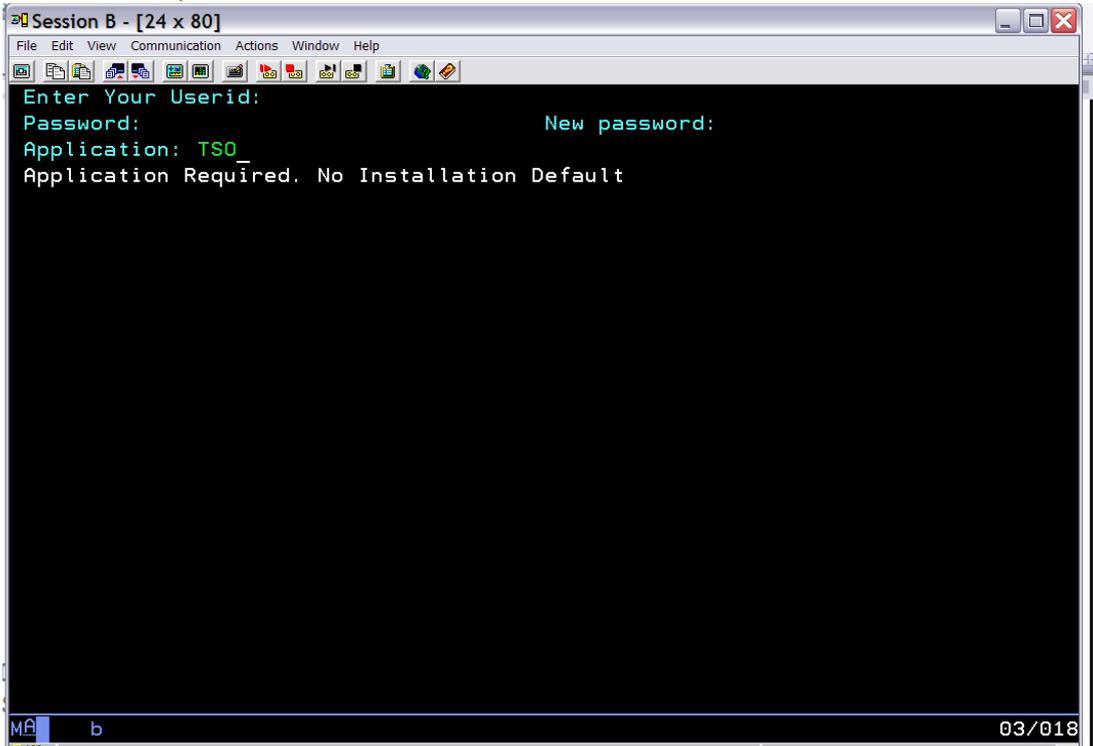
7. Invoke the Fix Category Explorer to express a persistent interest in all z10-related categories, coexistence support and target system requisites for z/OS V1.11, and recommended service as identified in software PSP buckets.
8. Run the SMP/E REPORT MISSINGFIX command to identify if any z10 maintenance is not installed.
9. Run the SMP/E REPORT MISSINGFIX command to identify if any z/OS V1.10 coexistence maintenance that is not installed in the z/OS V1.9 target zone.
10. Run the SMP/E REPORT MISSINGFIX command to identify any maintenance specified in a software PSP bucket that is not installed.
11. Use the SMP/E ISPF Command Generation Dialog to run a REPORT MISSINGFIX for the your persistent interest list

7. Use ISPF to invoke the Fix Category Explorer to create a persistent interest list containing all z10-related categories, coexistence support for z/OS V1.11, target system requisites for z/OS V1.11 and z/OSMF V1.11, and recommended service as identified in software PSP buckets.
 - (a) Invoke the SMP/E Administration ISPF Dialog to update the OPTIONS entry with a list of fix categories that we are interested in
 - i. Go to Administration
 - ii. Definition for the GLOBAL zone
 - iii. Select OPTIONS and the GOPT entry, then HOLDDATA followed by FIXCAT
 - iv. Specify **YES** for Explore Fix Categories? ==> ____ (YES or NO)
 - (b) Notice categories identified as NEW
 - (c) Issue the "C" primary command to collapse all categories
 - (d) Issue the "E" line command to expand the categories one level
 - (e) Expand all the IBM.Device.Server categories
 - (f) Issue the "F" (find) primary command for z10 to find the z10 related categories
 - (g) Issue the "S" line commands to select the z10 related fix categories
 - (h) Notice the implicitly selected fix categories
 - (i) Issue the "C" primary or line command to collapse the IBM.Device.Server categories
 - (j) Issue the "S" line command for z/OS coexistence (IBM.Coexistence.z/OS.V1R10) and IBM.ProductInstall-RequiredService to express an interest in those categories
 - (k) Save the persistent list
 - (l) Exit the SMP/E ISPF dialog
8. Run the SMP/E REPORT MISSINGFIX command to identify if any z10 maintenance is not installed.
 - (a) Edit the JCL member MISSZ10, changing USERID to your userid
 - (b) Submit the job
 - (c) Go to SDSF to view output
 - (d) Notice the SMP/E output fixes not installed, fixes not received
 - (e) Notice the punched jobs
9. Run the SMP/E REPORT MISSINGFIX command to identify if any z/OS V1.10 coexistence maintenance that is not installed in the z/OS V1.9 target zone.
 - (a) Edit the JCL member MISSZOS, changing USERID to your userid
 - (b) Submit the job

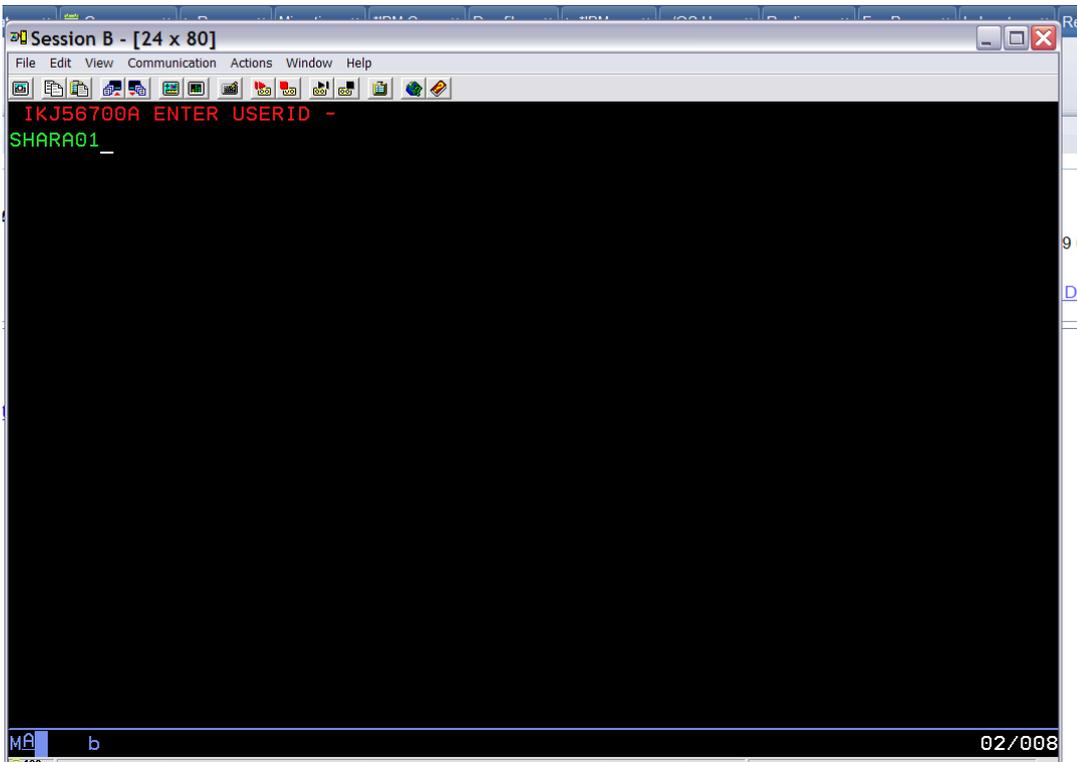
-
- (c) Go to SDSF to view output
 - (d) Notice the SMP/E output fixes not installed, fixes not received
 - (e) Notice the punched jobs
10. Run the SMP/E REPORT MISSINGFIX command to identify if any maintenance identified in a software PSP bucket that is not installed.
- (a) Edit the JCL member MISSPSP, changing USERID to your userid
 - (b) Submit the job
 - (c) Go to SDSF to view output
 - (d) Notice the SMP/E output fixes not installed, fixes not received
 - (e) Notice the punched jobs
11. Use the SMP/E ISPF Command Generation Dialog to run a REPORT MISSINGFIX for the your persistent interest list

1. Logon to the Poughkeepsie SHARE/EXPO system

From the PCOMM session, enter "TSO"



Enter the TSO USERID assigned to your seat. Userids SHARA01 - SHARA30 have been set up for this lab. For example for USERID SHARA01:



Enter the USERID and password. The password is 'FIRSTPW'.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
----- TSO/E LOGON -----

Enter LOGON parameters below:                                RACF LOGON parameters:

Userid   ==> SHARA01
Password ==> _                                             New Password ==>
Procedure ==> SHARE                                       Group Ident  ==>

Acct Nbr ==> SHR
Size     ==>
Perform  ==>
Command  ==> ISPF

Enter an 'S' before each option desired below:
      -Nomail      -Nonotice      S -Reconnect      -OIDcard

PF1/PF13 ==> Help   PF3/PF15 ==> Logoff   PA1 ==> Attention   PA2 ==> Resho
You may request specific help information by entering a '?' in any entry field

MA b 08/02
128 Connected through TLS1.0 to secure remote server/host mvs1.centers.ihost.com using lu/pool TCPS128 and port 6001
    
```

If instructed, on the logon panel, enter the command EX 'SHARE.CLIST(SMPELAB)'.

2. Use the SMP/E ISPF Dialog to verify your copy of the SMP/E GLOBAL CSI data set is correct

After you've logged on and gotten into ISPF, enter "SMP" and hit enter from the Primary ISPF panel to be brought to the SMP/E ISPF Dialog.

```

Session B - [24 x 80]
File Edit View Communication Actions Window Help
----- SHARE ISPF 6.0 SCROLLABLE PRIMARY OPTION MENU ----- S1
OPTION ==> SMP _

D Alternate Dialog ==> CMD(%????)
D2 Alternate Dialog ==> PANEL(????)

The time is 9:47 a.m. on Monday, April 13, 2009 (2009.103)
Your uid is GDAYNES dsn prefix is GDAYNES proc is SHARE sys is S1

0 SETTINGS - Specify ISPF parameters
1 VIEW - View source data or output listing
1P VIEW-OE - View/Browse files in the Open Edition file system
2 EDIT - Create or change source data
2P EDIT-OE - Edit files in the Open Edition file system
3 UTILITIES - Perform utility functions
3P ISHELL-OE - Open Edition ISPF shell
4 FOREGROUND - Invoke language processors in foreground
5 BATCH - Submit job for language processing
6 COMMAND - Enter TSO command, CLIST, or REXX exec
7 DIALOG TEST - Perform dialog testing
8 LM UTILITIES - Perform library administrator utility functions
9 IBM PRODUCTS - Additional IBM program development products
10 SCLM - Software Configuration and Library Manager

Use UP and DOWN PF keys or commands to scroll MENU

MA b 02/018
    
```

You will be brought to the following panel. Enter SMP/ELAB.GLOBAL.CSI as the SMPCSI data set name (no quotes needed). On the command line enter 3.1 to Query a zone.

```

Session B - [24 x 80]
----- SMP/E PRIMARY OPTION MENU ----- SMP/E 35.10
===> _
More: +

0 SETTINGS - Configure settings for the SMP/E dialogs
1 ADMINISTRATION - Administer the SMPCSI contents
2 SYSMOD MANAGEMENT - Receive SYSMODs and HOLDDATA
and install SYSMODs
3 QUERY - Display SMPCSI information
4 COMMAND GENERATION - Generate SMP/E commands
5 RECEIVE - Receive SYSMODs, HOLDDATA and
support information
6 MIGRATION ASSISTANT - Generate Planning and Migration Reports
7 ORDER MANAGEMENT - Manage ORDER entries in the global zone

D DESCRIBE - An overview of the dialogs
T TUTORIAL - Details on using the dialogs
W WHAT IS NEW - What is New in SMP/E

Specify the name of the CSI that contains the global zone:
SMPCSI DATA SET ===>
(Leave blank for a list of SMPCSI data set names.)

Specify YES to have DD statements for SYSOUT and temporary
MA b 02/007
    
```

From the Query panel, enter GLOBAL as the zone name and GZONE as the entry

```

Session A - [24 x 80]
----- CSI QUERY -----
===>
Specify the zone, entry type, and name to be queried:

ZONE NAME ===> GLOBAL Name of the zone to be queried.
To display a list of all zones,
leave blank

ENTRY TYPE ===> GZONE Entry type to be queried.
To display a list of all valid
entry types, leave ENTRY TYPE
and ENTRY NAME blank

ENTRY NAME ===> Entry name to be queried.
Leave blank or use a wildcard
(entry name pattern) to display
a selection list.

To return to the Query selection menu, enter END .

DSLIST -EDIT ISFPCU41 *GIMQU1P DSLIST CMD
MA a 06/022
    
```

After pressing the Enter key, the GLOBAL zone entry will be displayed.

1. First, look at the "UPGRADE LEVEL". It should be SMP/E 34.30.
2. Second, notice that a number of target and DLIB zones have been defined to this GLOBAL zone. These identify target and DLIB zones for z/OS V1.9, DB2 V8.1, MQ V5.3.1 and IRLM.
3. Finally, (if you are interested) you can scroll through the list of SRELS and FMIDs to see the FMIDs that have been defined to this GLOBAL zone. SMP/E will only process HOLDDATA for FMIDs defined to the GLOBAL zone (unless BYPASS is specified on the RECEIVE command).

```

=====
CSI QUERY - ZONE ENTRY                               Row 1 of 59
====> _                                           SCROLL ==> CSR

To return to the previous panel, enter END .

Primary Command: FIND

Entry Type:  GZONE                               Zone Name:  GLOBAL
Entry Name:  GLOBAL                               Zone Type:  GLOBAL

Default OPTIONS: GOPT           Related Zone:
UPGRADE LEVEL: SMP/E 34.30

-----
ZONES  DB2V8D  DB2V8T  DLIB    IRLMD    IRLMT    MQ531D  MQ531T
      TARGET  ZOS19D  ZOS19T
SRELS  C150    P115    Z038
FMIDS  EDU1H01  EER3500  EMI2220  ETI1106  FDU1H07  FDU1H08  FDU1H09
      HAAA120  HAC7810  HADD810  HADE810  HADF810  HADG810  HADL910
      HADQ910  HADR910  HAD0910  HBB7740  HBCNC00  HBCND0B  HBD6602
      HBKM300  HBKP300  HBKQ320  HCKZ210  HCMG110  HCM1910  HCPT390
      HCRY740  HCR7740  HCSC110  HCS7740  HDAS810  HDB661A  HDB6610

DSLIST  -EDIT  ISFPCU41 *GIMQIT1 DSLIST  CMD
=====

```

Exit the SMP/E ISPF dialog either by depressing the F4 key followed by the F3 key; or simply enter '=' on the command line and depress the enter key.

3. Run the SMP/E RECEIVE command to process HOLDDATA

Edit the userid.JCL data set (again).

1. Edit member RECEIVE (for example "SHARA01.JCL(RECEIVE)") to run the SMP/E RECEIVE command to process a HOLDDATA file. Change all references of "USERID" to userid that you logged on with. For example, you can use the following change command: "C USERID SHARA01 all" (Please remember to use caps for your userid).
2. Once all references have been changed, submit the job and save your changes to the JCL job.
3. You can go into SDSF look at the output.
 - SDSF is Option "S" from the ISPF primary command
 - Once in SDSF, enter the following commands
 - a. "OWNER userid" where userid is the ID that you logged on with
 - b. "PREFIX *" to enable any jobname submitted by you to be displayed
 - Enter "H ALL" to see all jobs on the held output queue or "DA" to see jobs currently executing
 - Use the "S" line command to select the job that you want to view.
4. You should receive the following messages:
 - GIM58903W SMP/E COULD NOT PROCESS A ++HOLD FIXCAT MCS BECAUSE IT WOULD HAVE MADE A CHANGE TO THE GLOBAL ZONE THAT CANNOT BE PROCESSED COMPLETELY BY PRIOR LEVELS OF SMP/E. USE THE UPGRADE COMMAND TO ALLOW SMP/E TO MAKE SUCH CHANGES.
 - GIM20501I RECEIVE PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 04.

4. Run the SMP/E UPGRADE command to enable SMP/E to process the FIXCAT HOLDDATA

Edit the userid.JCL data set again, this time member UPGRADE.

1. Edit member UPGRADE (for example "SHARA01.JCL(UPGRADE)") to run the SMP/E UPGRADE command against all the SMP/E zones. Change all references of "USERID" to userid that you logged on with. For example, you can use the following change command: "C USERID SHARA01 all" (Please remember to use caps for your userid).
2. Once all references have been changed, submit the job.

- You can go into SDSF look at the output. For each zone processed, you should receive the message: "GIM20501I UPGRADE PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 00."

5. Use the SMP/E ISPF Dialog to (a) verify that the UPGRADE level of you GLOBAL zone has changed.

Now go back into the SMP/E ISPF Dialogs. The GLOBAL zone CSI data set name that you entered earlier should be remembered.

Perform the GZONE query that you did before you ran the UPGRADE command and notice that the UPGRADE level has changed. It is now UPGRADE LEVEL: SMP/E 35.27.

```

                                CSI QUERY - ZONE ENTRY
                                Row 1 to 9 of 59
====> _                               SCROLL ==> PAGE

To return to the previous panel, enter END .

Primary Command: FIND

Entry Type:   GZONE                Zone Name: GLOBAL
Entry Name:   GLOBAL                Zone Type: GLOBAL

Default OPTIONS: GOPT              Related Zone:
UPGRADE LEVEL: SMP/E 35.27

-----
ZONES   DB2V8D  DB2V8T  DLIB    IRLMD   IRLMT   MQ531D  MQ531T
        TARGET  ZOS19D  ZOS19T
SRELS   C150     P115    Z038
FMIDS   EDU1H01  EER3500 EMI2220 ETI1106 FDU1H07 FDU1H08 FDU1H09
        HAAA120  HAC7810 HADD810 HADE810 HADF810 HADG810 HADL910
        HADQ910  HADR910 HAD0910 HBB7740 HBCNC00 HBCND0B HBD6602
        HBKM300  HBKP300 HBKQ320 HCKZ210 HCMG110 HCM1910 HCPT390
        HCRY740  HCR7740 HCSC110 HCS7740 HDAS810 HDB661A HDB6610
        HDB771A  HDB771N HDB771W HDB7710 HDB881A HDB8810 HDB9910

```

6. Re-Run the SMP/E RECEIVE command to process HOLDDATA

Once the upgrade command has completed successfully for each zone, submit the RECEIVE job again. This time the output should be different. The first thing that you may notice is that the job took longer to run. The next thing is that it produced over 50,000 lines of output. You should check the SMPDOUT output for the message: "GIM20501I RECEIVE PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 00.". If you have time, you should also look at the SMPHRPT output (the big 53K line output) and find the word "CATEGORY". You will see that the FIXCAT HOLDDATA was processed for the FMIDS defined in the global zone.

7. Use the Fix Category Explorer to express a persistent interest in all z10-related categories, coexistence support for z/OS V1.11, target system requisites for z/OS V1.11 and z/OSMF V1.11, and recommended service as identified in software PSP buckets.

We will now use the Fix Category Explorer to create a persistent interest list. The following is a subset of the information documented in the SMP/E manuals.

Manage a Persistent Fix Category Interest List

The Administration dialog can be used to display, update, and define entries in the GLOBAL zone, a target zone, or a distribution zone. It can also be used to create a new target or distribution zone. One of the entries in the GLOBAL zone that can be updated is the OPTIONS entry.

An OPTIONS entry defines processing options that are to be used for an SMP/E command or set of commands. Although OPTIONS entries exist in the GLOBAL zone, they are also used to process commands for the target and distribution zones.

The FIXCAT subentry specifies a list of Fix Categories. Fix Category values can be 1 to 64 characters in length, can contain any non-blank character in the range X'41' - X'FE' except single quote ('), comma (,), left parenthesis ((), and right parenthesis ()), and may be specified in two ways:

- Explicitly, by fully specifying a particular Fix Category value.
- Implicitly, by partially specifying a Fix Category value using any number of asterisks (*) as generic characters and percent signs (%) as placeholders.

The Fix Category Explorer is a new SMP/E dialog that allows you to view and select from a list of Fix Category values in a structured manner. The Fix Category Explorer takes advantage of the hierarchical form of the Fix Category values to allow the user to navigate the list of Fix Categories similar to how the navigation pane of Windows Explorer allows a user to navigate the directories and files of a hierarchical file system.

More specifically, the naming convention for Fix Categories uses dot-qualified hierarchical values of the form

FirstLQ.SecondLQ.ThirdLQ. ... NthLQ

That is, qualifiers are separated by dots (periods), allowing as many qualifiers as can fit within a maximum of 64 characters. For example, the Fix Category value IBM.Device.Server.z9-EC-2094 has three qualifiers, where IBM is the first level qualifier, Device is the second level qualifier, and Server is the third level qualifier, and "z9-EC-2094" is the fourth qualifier. The Fix Category Explorer panels display the Fix Categories by exploiting this dot-qualified hierarchical scheme. Fix Category values displayed can be considered "parent" or "child" values. A parent value is constructed from one or more qualifiers of a complete Fix Category value. For example, IBM is the parent value for IBM.Device which in turn is the parent value for IBM.Device.Server.

Please note that while the naming convention is similar to the data set naming conventions, there are differences in that the Fix Category names are less restrictive. Specifically, the maximum number of characters is 64 (not 44), each qualifier can have more than 8 characters, and there isn't any restriction on the leading characters of a Fix Category.

Administration Dialog – Update OPTIONS entry

```

DEFINITION - OPTIONS ENTRY ZOSOPT
===> _
Select one of the following:

  1 UTILITY   - Modify data related to the utility programs invoked by
                SMP/E.
  2 RECOVERY  - Modify data related to the SMP/E recovery processing after
                error conditions.
  3 CLEANUP   - Modify data related to the SMP/E data set cleanup
                operations after SMP/E processing.
  4 GENERAL   - Modify data related to general SMP/E operations and output
                format.
  5 DSPACE/   - Modify space allocation and/or the data name prefix for
  DSPREFIX    SMPTLIB data sets.
  6 ZONE GROUP - Modify data related to the SMP/E RECEIVE processing of
                SYSMODs previously accepted and/or applied.
  7 HOLDDATA  - Modify information related to HOLDDATA processing during
                the APPLY, ACCEPT and REPORT MISSINGFIX commands.
    
```

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Administration Dialog Options Entry, FIXCAT Subentry

Within the SMP/E administration dialog for the options entry, the existing HOLDDATA selection was updated to manage persistent fix category interest lists. Selecting "7" on the panel above, will display the updated panel shown below. Selecting "2" on the panel below will enable you to define, or update, the persistent list of fix categories that will become the default when this OPTIONS entry is in use during APPLY, ACCEPT, or REPORT MISSINGFIX commands.

Administration Dialog – Update OPTIONS entry

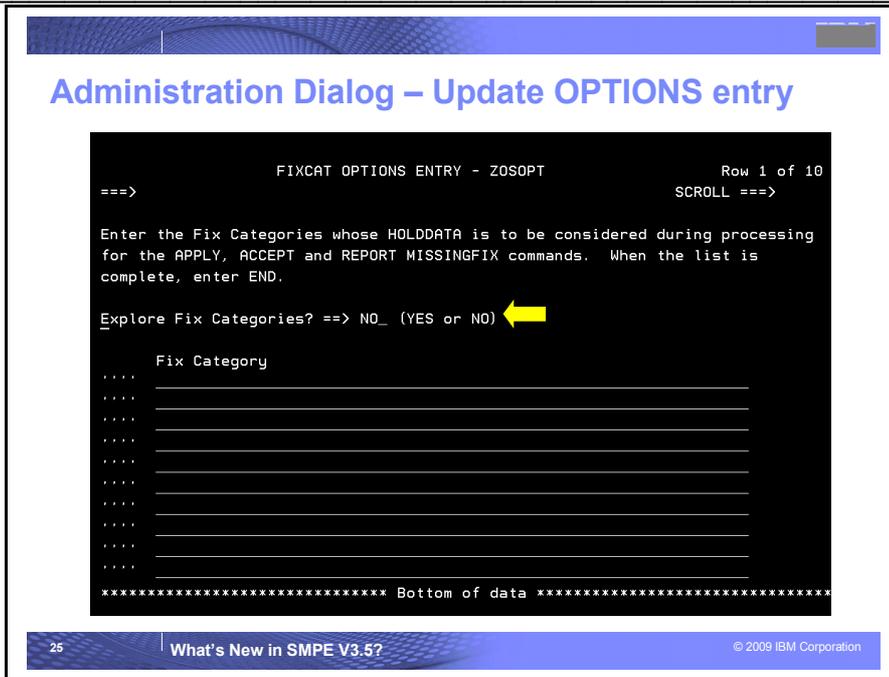
```

----- OPTIONS ENTRY ZOSOPT - HOLDDATA Reporting -----
===> _
Select one of the following:

  1 SUPPHOLD - Specify Reason IDs for which the HOLDDATA image is to be
                suppressed in the APPLY and ACCEPT command HOLDDATA reports.
  2 FIXCAT   - Specify the Fix Categories whose HOLDDATA will affect APPLY,
                ACCEPT and REPORT MISSINGFIX command processing.

To return to previous panel, enter END .
    
```

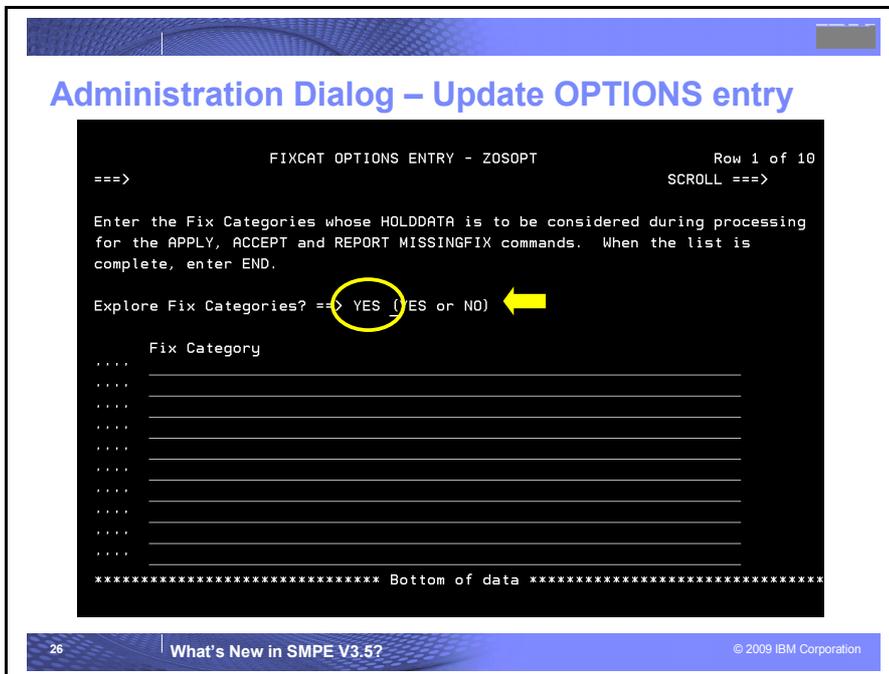
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Administration Dialog Options Entry, FIXCAT Subentry

This panel allows you to specify a list of Fix Categories who's HOLDDATA is to be considered during APPLY, ACCEPT and REPORT command processing, or to use the Fix Category Explorer to view and select Fix Category values. If no FIXCAT subentry exists in the current OPTIONS entry, then the display will be empty. Otherwise the existing subentry list values will be displayed.

If you specify YES to enter the Fix Category Explorer (as shown below), you may view and select from a list of all Fix Category values from all FIXCAT HOLDDs (next set of slides). In addition, new Fix Category values will be identified.



Administration Dialog – Update OPTIONS entry

```

----- Fix Category Explorer ----- Row 1 to 13 of 112
===> _                               SCROLL ===> PAGE
Commands: FIND -Find a string, E -Expand all, C -Collapse all, U -Unselect all
Actions: E -Expand, C -Collapse, S -Select, U -Unselect, V -View patterns
NEW indicates a Fix Category is new since .

Fix Categories                               New
-----
-IBM.*                                       NEW
-IBM.Coexistence.*                          NEW
-IBM.Coexistence.ICSF.*                     NEW
  IBM.Coexistence.ICSF.z/OS_V1R9-V1R11-HCR7770  NEW
-IBM.Coexistence.z/OS.*                     NEW
  IBM.Coexistence.z/OS.V1R10                  NEW
  IBM.Coexistence.z/OS.V1R11                  NEW
  IBM.Coexistence.z/OS.V1R12                  NEW
-IBM.Device.*                               NEW
  IBM.Device.CommunicationController.*        NEW
  IBM.Device.CommunicationController.3745     NEW
-IBM.Device.Disk.*                           NEW
  IBM.Device.Disk.DS8000-2107                 NEW
    
```

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First time everything is displayed as "NEW"

Fix Category Explorer

When a user enters the Fix Category Explorer while updating an OPTIONS entry, all Fix Category values that are new and have not been viewed previously will be marked as NEW in the display. That is, all FIXCAT HOLD entries will be read from the GLOBAL zone and all Fix Category values will be collected from those HOLD entries. This list of Fix Category values will be compared to the list of saved Fix Categories in the permanent ISPF table that is unique for the current userid (this is the list of Fix Categories viewed last time). Any Fix Category values from the HOLD entries that are not in the saved list are considered new. The NEW field for such values will be set to **NEW**. The NEW field for all other values will be blank. Finally, all Fix Categories are analyzed and dissected into their various levels, or qualifiers. Appropriate parent and child values are then constructed for the Explorer display.

This display option is useful if you have traveled this path before. That is, if you choose to enter the Fix Category Explorer, the SMP/E dialog will remember all Fix Category values that are used to build the display. The next time you enter the Explorer, only the Fix Categories from new HOLDDATA received into the GLOBAL zone since the last time will be marked new in the display.

The initial display for a user's first visit (or for a user with no saved list of previously viewed Fix Categories) all values will be NEW and therefore all levels are expanded in order to expose all NEW values in the display.

Administration Dialog – Update OPTIONS entry

```

----- Fix Category Explorer ----- Row 1 of 5
===> _ SCROLL ==>

Commands: FIND -Find a string, E -Expand all, C -Collapse all, U -Unselect all
Actions: E -Expand, C -Collapse, S -Select, U -Unselect, V -View patterns

No Fix Categories are new since 2008/07/31.

Fix Categories                                     New Selected
-----
-IBM.*
+IBM.Coexistence.*
+IBM.Device.*
+IBM.Function.*
+IBM.ProductInstall-RequiredService
***** Bottom of data *****
    
```

Use "E" command to expand ALL fix categories

No new Fix Categories found in the GLOBAL zone

Use "E" line command to expand the list of fix categories

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Fix Category Explorer

The Fix Category Explorer allows you to view and select Fix Category values from a structured display. The display takes advantage of the hierarchical form of the Fix Category values and represents all Fix Categories from all FIXCAT HOLDS found in the GLOBAL zone. It allows you to manage a persistent interest list. You can expand Fix Categories to see the more fully qualified name, as well as specify (select) an interest in a Fix Categories (or unselect it to state that you are no longer interested in that Fix Category).

Administration Dialog – Update OPTIONS entry

```

----- Fix Category Explorer ----- Row 1 of 13
===> _ SCROLL ==>

Commands: FIND -Find a string, E -Expand all, C -Collapse all, U -Unselect all
Actions: E -Expand, C -Collapse, S -Select, U -Unselect, V -View patterns

No Fix Categories are new since 2008/07/31.

Fix Categories                                     New Selected
-----
-IBM.*
-IBM.Coexistence.*
+IBM.Coexistence.z/OS.*
-IBM.Device.*
+IBM.Device.CommunicationController.*
+IBM.Device.Disk.*
+IBM.Device.ESCONDirector-9032
+IBM.Device.FICONDirector.*
+IBM.Device.OpticalLibrary-3995
+IBM.Device.Server.*
+IBM.Device.Tape.*
+IBM.Function.*
+IBM.ProductInstall-RequiredService
    
```

The list of IBM coexistence categories expanded by one qualifier

The list of IBM devices is expanded by one qualifier

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Administration Dialog – Update OPTIONS entry

Can use the FIND command to locate z10 Fix Categories

```

----- Explorer ----- Row 1 of 28
===> _ SCROLL ==>

Commands: FIND -Find a string, E -Expand all, C -Collapse all, U -Unselect all
Actions: E -Expand, C -Collapse, S -Select, U -Unselect, V -View patterns

No Fix Categories are new since 2008/07/31.

Fix Categories ----- New Selected
-----
-IBM.*
-IBM.Coexistence.*
+IBM.Coexistence.z/OS.*
-IBM.Device.*
+IBM.Device.CommunicationController.*
+IBM.Device.Disk.*
IBM.Device.ESCONDirector-9032
+IBM.Device.FICONDirector.*
IBM.Device.OpticalLibrary-30
-IBM.Device.Server.*
IBM.Device.Server.CouplingFacility-9674
IBM.Device.Server.ParallelTransactionServer-9672
IBM.Device.Server.s/390Multiprise3000-7060
    
```

The list of IBM servers is expanded by one qualifier

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Administration Dialog – Update OPTIONS entry

Use the "S" line command to express an interest in the Fix Category

```

----- Fix Category Explorer ----- CHARS 'Z10' FOUND
===> _ SCROLL ==>

Commands: FIND -Find a string, E -Expand all, C -Collapse all, U -Unselect all
Actions: E -Expand, C -Collapse, S -Select, U -Unselect, V -View patterns

No Fix Categories are new since 2008/07/31.

Fix Categories ----- New Selected
-----
s IBM.Device.Server.z10-EC-2097
s +IBM.Device.Server.z10-EC-2097.*
IBM.Device.Server.z800-2066
IBM.Device.Server.z890-2086
+IBM.Device.Server.z890-2086.*
IBM.Device.Server.z9-BC-2096
+IBM.Device.Server.z9-BC-2096.*
IBM.Device.Server.z9-EC-2094
+IBM.Device.Server.z9-EC-2094.*
IBM.Device.Server.z900-2064
IBM.Device.Server.z990-2084
+IBM.Device.Server.z990-2084.*
+IBM.Device.Tape.*
    
```

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Administration Dialog – Update OPTIONS entry

```

----- Fix Category Explorer ----- Row 2 to 14 of 14
===>                                SCROLL ==> CSR

Commands: FIND -Find a string, E -Expand all, C -Collapse all, U -Unselect all
Actions:  E -Expand, C -Collapse, S -Select, U -Unselect, V -View patterns

No Fix Categories are new since 2010/04/15.

Fix Categories                                     New Selected
-----
-IBM.Coexistence.*
+IBM.Coexistence.ICSF.*
-IBM.Coexistence.z/OS.V1R10.*
s IBM.Coexistence.z/OS.V1R11
s IBM.Coexistence.z/OS.V1R12
+IBM.Device.*
+IBM.Function.*
s IBM.ProductInstall-RequiredService
-IBM.TargetSystem-RequiredService.z/OS.V1R11
-IBM.TargetSystem-RequiredService.z/OS.V1R12
s IBM.TargetSystem-RequiredService.z/OS.V1R11
s +IBM.TargetSystem-RequiredService.z/OSMF.*
    
```

Select coexistence maintenance for z/OS V1.11

Select Recommended Service from software PSP buckets

Select Target system requisites for z/OS V1.11 and z/OSMF

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Administration Dialog – Update OPTIONS entry

```

FIXCAT OPTIONS ENTRY - GOPT                               Row 1 to 7 of 7
===>                                                     SCROLL ==> PAGE

Enter the Fix Categories whose HOLDDATA is to be considered during processing
for the APPLY, ACCEP and REPORT MISSINGFIX commands. When the list is
complete, enter END.

Explore Fix Categories? ==> NO_ (YES or NO)

Fix Category
**** IBM.Coexistence.z/OS.V1R11
**** IBM.Device.Server.z10-EC-2097
**** IBM.Device.Server.z10-EC-2097.*
**** IBM.Function.HealthChecker
**** IBM.ProductInstall-RequiredService
**** IBM.TargetSystem-RequiredService.z/OS.V1R11
**** IBM.TargetSystem-RequiredService.z/OSMF.*
***** Bottom of data *****
    
```

Persistent default interest list for this OPTIONS entry

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Fix Category Explorer (continued)

If either the END or RETURN command is processed, the list of Fix Categories displayed will be saved and used later to determine which Fix Categories will be marked "new" the next time this user chooses the NEW option of the Fix Category Explorer, and the selected Fix Categories will be stored in the FIXCAT subentry of the subject options entry.

8. Run the SMP/E REPORT MISSINGFIX command to identify if any z10 maintenance is not installed
 Edit the userid.JCL data set.

- a. Edit member MISSZ10 (for example "SHARA01.JCL(MISSZ10)") to run the SMP/E REPORT MISSINGFIX command to identify any maintenance needed to run on or exploit either a z10 EC or z10 BC server that is not installed. Change all references of "USERID" to userid that you logged on with. For example, you can use the following change command: "C USERID SHARA01 all" (Please remember to use caps for your userid).
- b. Once all references have been changed, submit the job and save your changes to the JCL job.
- c. You can go into SDSF look at the output. You should receive the following messages:
 - GIM20501I REPORT PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 00.
 - You should get a MISSING FIXCAT SYSMOD REPORT for each zone. The report will identify that the only zone where fixes are missing is ZOS19T (the z/OS V1.9 target zone).
 - For each category with missing fixes, the FMID, APAR, fixing PTF, and status of the fixing PTF will be identified (see below)
 - For each fix that has not yet been RECEIVE'd, a sample RECEIVE ORDER job will be created to acquire those PTFs. Furthermore, for each fix not installed, a sample APPLY command is generated (with the not yet acquired service commented out).

```

    Display Filter View Print Options Help
    -----
    SDSF OUTPUT DISPLAY GDAYNESM JOB31228 DSID 107 LINE 338 COLUMNS 02- 133
    COMMAND INPUT ==> SCROLL ==> CSR
    FIX CATEGORY FMID CLASS APAR SYSMOD NAME STATUS RECEIVED
    -----
    IBM.Device.Server.z10-EC-2097
      JCS774J AA20468 JCS774J UA90394 GOOD NO
      AA24437 JCS774J UA40720 GOOD NO
      AA25199 JCS774J UA42382 GOOD NO
      JIP6199 AK64880 JIP6199 UK37607 GOOD NO
      JPG290A AA22914 JPG290A UA39414 GOOD NO
      JRM774J AA12774 JRM774J UA39279 GOOD NO
      AA24074 JRM774J UA40054 GOOD NO
    IBM.Device.Server.z10-EC-2097.zAAP
      HBB7740 AA20633 HBB7740 UA39386 HELD NO
      AA22160 HBB7740 UA38783 GOOD NO
      AA23479 HBB7740 UA39225 GOOD NO
      AA25733 HBB7740 UA42763 GOOD NO
      AA25825 HBB7740 UA42949 GOOD NO
      AA25903 HBB7740 UA44802 GOOD NO
      HRM7740 AA24364 HRM7740 UA40871 GOOD NO
      AA25162 HRM7740 UA42340 GOOD NO
      JBB774J AA20633 JBB774J UA39389 GOOD NO
    IBM.Device.Server.z10-EC-2097.zHighPerformanceFICON
      EER3500 A004445 EER3500 U000849 GOOD NO
    DSLIST -EDIT *ISFPCU4 ISRDIIS DSLIST CMD
    
```

9. Run the SMP/E REPORT MISSINGFIX command to identify if any z/OS V1.10 coexistence maintenance that is not installed in the z/OS V1.9 target zone.

Edit the userid.JCL data set.

1. Edit member MISSZOS (for example "SHARA01.JCL(MISSZOS)") to run the SMP/E REPORT MISSINGFIX command to identify any maintenance needed to enable a z/OS V1.9 system to share resources with a z/OS V1.10 system (including in case of fallback) that is not installed. Change all references of "USERID" to userid that you logged on with. For example, you can use the following change command: "C USERID SHARA01 all" (Please remember to use caps for your userid).
2. Once all references have been changed, submit the job and save your changes to the JCL job.

3. You can go into SDSF look at the output. You should receive the following messages:
 - GIM20501I REPORT PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 00.
 - You should get a MISSING FIXCAT SYSMOD REPORT for the ZOS19T zone. The report will identify that several coexistence fixes needed for z/OS V1.9 to coexist with z/OS V1.10 are not yet installed on the z/OS V1.9 system.
 - A similar report to what was produced for the z10 REPORT MISSINGFIX command will be produced.
 - For each fix that has not yet been RECEIVE'd, a sample RECEIVE ORDER job will be created to acquire those PTFs. Furthermore, for each fix not installed, a sample APPLY command is generated (with the not yet acquired service commented out).

```

Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY GDAYNESM JOB31664 DSID 107 LINE 3 COLUMNS 02- 133
COMMAND INPUT ==> _ SCROLL ==> CSR
MISSING FIXCAT SYSMOD REPORT FOR ZONE ZOS19T

FIX CATEGORY      FMID      HOLD      MISSING  HELD      RESOLVING SYSMOD
CLASS            APAR      SYSMOD    NAME      STATUS    RECEIVED
-----
IBM, Coexistence, z/OS, V1R10
HBB7740          AA17252   HBB7740   UA39716   HELD      NO
                AA23153   HBB7740   UA39874   GOOD      NO
                AA24850   HBB7740   UA40988   GOOD      NO
                AA25013   HBB7740   UA41279   GOOD      NO
HCS7740          AA22842   HCS7740   UA90386   GOOD      NO
HDZ119N         AA24257   HDZ119N   UA40245   GOOD      NO
HDZ1190         AA21487   HDZ1190   UA40229   GOOD      NO
                AA22026   HDZ1190   UA39934   GOOD      NO
                AA22211   HDZ1190   UA39940   GOOD      NO
                AA22400   HDZ1190   UA39959   GOOD      NO
                AA22449   HDZ1190   UA40221   GOOD      NO
                AA22804   HDZ1190   UA40306   HELD      NO
                AA23786   HDZ1190   UA39926   GOOD      NO
                AA25754   HDZ1190   UA42230   HELD      NO
HJE7740          CA20935   HJE7740   UA90383   GOOD      NO
HJS7740          AA21882   HJS7740   UA39863   GOOD      NO

DSLST  -EDIT  *ISFPCU4  ISRDIIS  DSLIST  CMD
    
```

Punched Sample Job

```

Session A - [27 x 132]
File Edit View Communication Actions Window Help
-----
  Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY GDAYNESM JOB31664  DSID   109 LINE 1      COLUMNS 02- 133
COMMAND INPUT ==> -                               SCROLL ==> CSR
SET BDY (GLOBAL) /*

THE FOLLOWING SMP/E COMMANDS WERE GENERATED BY A REPORT MISSINGFIX
COMMAND ON 04/13/09 AT 18:33:19.

      */.
RECEIVE ORDER (
  CONTENT (ALL) /*

      SMP/E RECOMMENDS ORDERING AND RECEIVING ALL APPLICABLE
      PTFS.  IF YOU CHOOSE NOT TO ORDER ALL, THEN ORDER ONLY
      THE RESOLVING PTFS:

  CONTENT (PTFS (
    UA39319 UA39334 UA39716 UA39739 UA39863 UA39874 UA39926
    UA39934 UA39940 UA39959 UA39960 UA40221 UA40229 UA40245
    UA40306 UA40988 UA41279 UA42084 UA42230 UA44807 UA90383
    UA90386 UA90388 U000701 U000702
  ) )
      */
ORDERSERVER (SMPOSRVR) /* SPECIFY THE ORDERSERVER DDNAME.      */
CLIENT      (SMPCLNT ) /* SPECIFY THE CLIENT DDNAME.          */
DSLIST      -EDIT      *ISFPCU4 ISRDIIS  DSLIST  CMD

```

```

  Display Filter View Print Options Help
-----
SDSF OUTPUT DISPLAY GDAYNESM JOB31664  DSID   109 LINE 23     COLUMNS 02- 133
COMMAND INPUT ==> -                               SCROLL ==> CSR
)
      DELETEPKG.
SET BDY (ZOS19T ) .
APPLY CHECK
SELECT (
/* IBM.Coexistence.z/OS.V1R10                               */
    UA39319
    UA39334
    UA39716
    UA39739
    UA39863
    UA39874
    UA39926
    UA39934
    UA39940
    UA39959
    UA39960
    UA40221
    UA40229
    UA40245
    UA40306
    UA40988
DSLIST      -EDIT      *ISFPCU4 ISRDIIS  DSLIST  CMD

```

10. Run the SMP/E REPORT MISSINGFIX command to identify if any maintenance identified in a software PSP bucket that is not installed.

Edit the userid.JCL data set.

1. Edit member MISSPSP (for example "SHARA01.JCL(MISSPSP)") to run the SMP/E REPORT MISSINGFIX command to identify any maintenance identified in the Recommended Service section of

a software Preventive Service Planning (PSP) bucket that is not installed. Change all references of "USERID" to userid that you logged on with. For example, you can use the following change command: "C USERID SHARA01 all" (Please remember to use caps for your userid).

2. Once all references have been changed, submit the job and save your changes to the JCL job.
3. You can go into SDSF look at the output. You should receive the following messages:
 - GIM20501I REPORT PROCESSING IS COMPLETE. THE HIGHEST RETURN CODE WAS 00.
 - You should get a similar report to what was produced for the z10 REPORT MISSINGFIX command. This report will identify that several recommended service fixes for DB2 V9 and z/OS V1.9 are not currently installed.
 - A similar punched job is also created.

11. Use the SMP/E ISPF Command Generation Dialog to run a REPORT MISSINGFIX for the your persistent interest list

Now go back into the SMP/E ISPF Dialogs. The GLOBAL zone CSI data set name that you entered earlier should still be remembered. This time choose option 4 from the SMP/E primary ISPF panel for Command Generation. The following panel will now be displayed. Enter "34" for REPORT and "GLOBAL" for the zone name, then depress the enter key.

```

.                                     COMMAND GENERATION SELECTION MENU                                     .
.  ==> 34                                                                    .
.  .                                                                           .
.  Select one of the following:                                               .
.  10 RECEIVE          20 RESETRC          30 LIST BACKUP          40 ZONECOPY          .
.  11 APPLY            21 JCLIN            31 LIST LOG             41 ZONEEDIT          .
.  12 ACCEPT           22 UCLIN            32 LIST                 42 ZONEDELETE        .
.  13 REJECT           23 CLEANUP          33 UNLOAD                43 ZONEEXPORT        .
.  14 RESTORE          24 GENERATE          34 REPORT                 44 ZONEIMPORT        .
.  15 LINK              25 LOG              35 BUILDMCS             45 ZONEMERGE        .
.                                     26 UPGRADE          46 ZONERENAME          .
.                                     .                                     47 GZONEMERGE          .
.  .                                                                           .
.  Enter or verify the following:                                             .
.  ZONE NAME           ==> GLOBAL          (required)                    .
.  OPTIONS NAME        ==> _              OPTIONS name or                .
.                                     blank                                     .
.  SMP/E PROCESS PARAMETER ==> WAIT        WAIT or END                    .
.  .                                                                           .
.  To return to the SMP/E primary option menu enter the END command          .
.  .                                                                           .
.  5694-A01 5655-G44 COPYRIGHT IBM CORP 1982, 2008                          .
.  .                                                                           .
SFPCU4 *GIMCGPO DSLIST  CMD

```

You will then be presented with a panel to identify which REPORT command that you want to run:


```
COMMAND GENERATION - REPORT MISSINGFIX ZONES          Row 1 of 10
===>                                                    SCROLL ==> CSR

Enter the names of the ZONES or ZONESETS to be reported.

When the list is complete, enter END .

      ZONES/ZONESETS
****  db2v8t__
****  zos19t__
****  _____
****  _____
****  _____
****  _____
****  _____
****  _____
****  _____
****  _____
****  _____
***** Bottom of data *****

*xGIMGRP -EDIT      ISFPCU41 DSLIST
```

You will now see a message that a REPORT command was generated based on the input provided.

```

.                                     COMMAND GENERATION SELECTION MENU
.
.  ==> _
.  The REPORT command was created based on your input
.  Select one of the following:
.
.   10 RECEIVE      20 RESETRC      30 LIST BACKUP    40 ZONECOPY
.   11 APPLY        21 JCLIN        31 LIST LOG       41 ZONEEDIT
.   12 ACCEPT       22 UCLIN        32 LIST           42 ZONEDELETE
.   13 REJECT       23 CLEANUP       33 UNLOAD         43 ZONEEXPORT
.   14 RESTORE      24 GENERATE      34 REPORT         44 ZONEIMPORT
.   15 LINK         25 LOG           35 BUILDMCS      45 ZONEMERGE
.                                     46 ZONERENAME
.                                     47 GZONEMERGE
.
.  Enter or verify the following:
.  ZONE NAME          ==> GLOBAL      (required)
.  OPTIONS NAME       ==>
.                                     OPTIONS name or
.                                     blank
.  SMP/E PROCESS PARAMETER ==> WAIT   WAIT or END
.
.  To make additional selections enter selection and press ENTER
.  To EDIT, BROWSE, or SUBMIT generated jobs enter the END command
.  To leave without submitting any job enter the CANCEL command
.
.
.
SFPCU4 *GIMCGPO DSLIST  CMD
    
```

Using the F3 key to END will bring up the generated JCL with an option to browse, edit or submit the job. Selecting Edit will bring up the generated JCL.

```

.                                     COMMAND GENERATION - SUBMIT
.
.  ==> E_
.
.  Select one of the following:
.   E - EDIT the job that was generated
.   B - BROWSE the job that was generated
.   S - SUBMIT the job that was generated
.
.  Enter or modify the JOB statement.
.  ==> //GDAYNESC JOB (ACCOUNT), 'NAME'
.  ==> /**
.  ==> /**
.  ==> /**
.
.  To end this dialog without submitting the job,
.  enter END . ( NOTE: The job stream is not saved.)
.
.
.
.
SFPCU4 *GIMCGSU DSLIST  CMD
    
```


Reference Material

If at anytime you need to recreate your own copy of SMP/E CSI data sets

Edit the userid.JCL data set.

1. Edit member *COPYMSTR* (for example "SHARA01.JCL(COPYMSTR)") to copy the master SMP/E CSIs to your own copy. Change all references of "USERID" to userid that you logged on with. For example, you can use the following change command: "C USERID SHARA01 all" (Please remember to use caps for your userid).
2. Once all references have been changed, submit the job.
3. You can go into SDSF to verify that the job ran successfully.
 - SDSF is Option "S" from the ISPF primary command
 - Once in SDSF, enter the following commands
 - a) "OWNER userid" where userid is the ID that you logged on with
 - b) "PREFIX *" to enable any jobname submitted by you to be displayed
 - Enter "H ALL" to see all jobs on the held output queue or "DA" to see jobs currently executing
 - Use the "S" line command to select the job that you want to view.



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Notes:
Performance is in Internal Throughput Rate (ITR) ratio based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput that any user will experience will vary depending upon considerations such as the amount of multiprocessing in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput improvements equivalent to the performance ratios stated here.
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