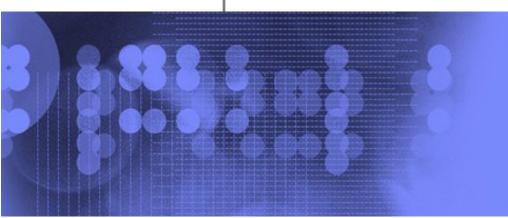




SDSF Changes for z/OS V1R7

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Changes for z/OS V1R7

- New panel for health checks
- •New panel for JES2 resources
- Expanded support for JES2 monitor
- Changes in response to Console restructure
- Default browse action characters
- Cursor placement control
- •Unconditional wait on the / command
- New columns and action characters
- Migration action for protecting ENC and PS cmds
- Support for the zAAP

IBM Health Checker for z/OS



- Foundation to help simplify and automate verification of best practices for z/OS
- Available previously as an "as-is" download
 - www.ibm.com/servers/eserver/zseries/zos/downloads/
- See IBM Health Checker for z/OS User's Guide, SA22-7994

IBM Health Checker for z/OS

- ■Part of the z/OS base in R7
- Support being rolled back to prior releases
- ■SDSF APAR PK00561
- V1R4 SDSF PTFs: UK06680 (Japanese: UK06682)
- V1R5 SDSF PTFs: UK06681 (Japanese: UK06683)

SDSF Support for IBM Health Checker

- New tabular panel
 - Sysplex-capable with WebSphere MQ
 - Sort, filter, arrange support
- Shows attributes and status of the current checks
 - Last time the check ran
- Action characters to control checks
- Browse action to display check output messages
- Overtypes to change attributes

Display Filter View Print	Options H	elp	
SDSF HEALTH CHECKER DISPLAY	SY1		
COMMAND INPUT ===>		SCROLL ==:	=> CSR
NP NAME	CheckOwner	State	Statu
CNZ_AMRF_EVENTUAL_ACTION_M	IBMCNZ	ACTIVE (ENABLED)	EXCEP
CNZ_CONSOLE_MASTERAUTH_CMD	IBMCNZ	ACTIVE (ENABLED)	SUCCE
CNZ_CONSOLE_MSCOPE_AND_ROU	IBMCNZ	ACTIVE (ENABLED)	EXCEP
CNZ_CONSOLE_ROUTCODE_11	IBMCNZ	ACTIVE (ENABLED)	EXCEP
CNZ_EMCS_HARDCOPY_MSCOPE	IBMCNZ	ACTIVE (ENABLED)	SUCCE
CNZ_EMCS_INACTIVE_CONSOLES	IBMCNZ	ACTIVE (ENABLED)	SUCCE
CNZ_SYSCONS_MSCOPE	IBMCNZ	ACTIVE (ENABLED)	EXCEP
CNZ_SYSCONS_PD_MODE	IBMCNZ	ACTIVE (ENABLED)	SUCCE
CNZ_SYSCONS_ROUTCODE	IBMCNZ	ACTIVE (ENABLED)	EXCEP
CNZ_TASK_TABLE	IBMCNZ	ACTIVE (ENABLED)	SUCCE
CTT_LEVEL	ZTTX	ACTIVE (ENABLED)	SUCCE
CTT_SYNTAX_RULES	ZTTX	ACTIVE (ENABLED)	SUCCE
GRS_CONVERT_RESERVES	IBMGRS	ACTIVE(DISABLED)	ENV N

Display Filter View Print Options Help SDSF HEALTH CHECKER DISPLAY Check name fixed field: COMMAND INPUT ===> NP NAME CNZ AMRF EVENTUAL ACTION M CNZ CONSOLE MASTERAUTH CMD Names can be up to 32 CNZ CONSOLE MSCOPE AND ROU characters long CNZ CONSOLE ROUTCODE 11 CNZ EMCS HARDCOPY MSCOPE CNZ EMCS INACTIVE CONSOLES Column sized dynamically CNZ SYSCONS MSCOPE CNZ SYSCONS PD MODE CNZ SYSCONS ROUTCODE ACTIVE (ENABLED) CNZ TASK TABLE IBMCNZ SUCCE CTT LEVEL ZTTX ACTIVE (ENABLED) SUCCE ACTIVE (ENABLED) CTT SYNTAX RULES ZTTX SUCCE GRS CONVERT RESERVES IBMGRS ACTIVE(DISABLED) ENV N

```
Display Filter View Print Options Help
SDSF HEALTH CHECKER DISPLAY
                              SY1
COMMAND INPUT ===>
                                                   SCROLL ===> CSR
                               CheckOwner
NP NAME
                                            State
                                                             Statu
                                           ACTIVE (ENABLED)
   CNZ AMRF EVENTUAL ACTION M IBMCNZ
                                                             EXCEP
                               IBMCNZ
                                           ACTIVE (ENABLED)
                                                             SUCCE
      Component
                                           ACTIVE (ENABLED)
                              IBMCNZ
                                                             EXCEP
   CNZ CONSOLE ROUTCODE II
                               IBMCNZ
                                           ACTIVE (ENABLED)
                                                             EXCEP
                                            ACTIVE (ENABLED)
                                                             SUCCE
   CNZ EMCS HARDCOPY MSCOPE
                               IBMCNZ
   CNZ EMCS INACTIVE CONSOLES IBMCNZ
                                           ACTIVE (ENABLED)
                                                             SUCCE
                                            *CTIVE (ENABLED)
   CNZ SYSCONS MSCOPE
                               TDMONTO
                                                             EXCEP
                         Readiness to run
   CNZ SYSCONS PD MODE
                                              TIVE (ENABLED)
                                                             SUCCE
                                                             EXCEP
                                              TIVE (ENABLED)
   CNZ SYSCONS ROUTCODE
                                            ACTIVE (ENABLED)
   CNZ TASK TABLE
                               IBMCNZ
                                                             SUCCE
   CTT LEVEL
                               ZTTX
                                                               CCE
                                               Exception,
   CTT SYNTAX RULES
                               ZTTX
                                            ACT
                                                               CCE
                                               success, etc.
                                                               V N
   GRS CONVERT RESERVES
                               IBMGRS
```

Additional columns include information about:

- Check status
- When the check ran
- What its scheduled interval is
- What its severity is
- Description of the reason for the check
- Categories the check belongs to (up to 16)

SDSF Health Checker panel – Action Characters

```
Activate
Display
              Display
           DL Display long
SDSF HEALTH
               Display policies
COMMAND INE
           DP
NP
   NAME
           DPO Display policies that are outdated, not applied
    CNZ AMF
    CNZ_CON DS Display status
                Refresh
    CNZ_CON E
    CNZ_CON
                Deactivate
    CNZ EMO
              Delete
    CNZ_EMC P
    CNZ_SYS PF Delete force
    CNZ_SYS
                Run
    CNZ SYS
    CNZ_TAS S, SB, SE
                      Browse
                Remove all categories for the check
    CTT_LEV
    CTT_SYN
                Print the check output; add C (close), D (to data
    GRS CON
               set), F (to file), S (sysout)
```

SDSF Health Checker Panel - Overtypes

You can modify check attributes by typing over the values in these columns. SDSF generates MODIFY commands.

Column **Description**

Category of the check (up to 16) Category

➤ Type + alone to display pop-up that lets you modify all 16

Debug mode indicator (OFF, ON, HC) Debug

Interval How often the check runs (hhh:mm)

Severity level of the check (HIGH, MEDIUM, Severity

LOW)

Date of the check UserDate

WTOType WTO type or descriptor code, in decimal

SDSF Health Checker Panel - Browse

SDSF OUTPUT DISPLAY RSM_MEMLIMIT

LINE 0

COLUMNS 02- 81

COMMAND INPUT ===>

SCROLL ===> HALF

***** TOP OF DATA ****

CHECK(IBMRSM, RSM MEMLIMIT)

Check name

START TIME: 08/09/2005 09:17:29.644085

CHECK DATE: 20041006 CHECK SEVERITY: LOW

* Low Severity Exception *

Standard browse functions: Print, find, scroll...

IARH109E MEMLIMIT SET TO MAXIMUM

Explanation: Currently, the MEMLIMIT setting in SMFPRMxx is set to NOLIMIT.

Setting MEMLIMIT too low may cause jobs that rely on high virtual storage to fail. Setting MEMLIMIT too high may cause over-commitment of real storage resources and lead to performance degradation or system loss.

System Action: n/a

Health Checker Panel – CK Command

CK command displays the panel

Parameters on the CK command can filter the checks shown.

CK (category | E | EH | EM | EL | EN | D | ALL)

with no parameters displays active checks.

category is a category name. It can include pattern-matching characters:

* (any string) or % (any single character).

E displays all exception checks, with these variations:

EH - exception-high

EM - exception-medium

EL - exception-low

EN - exception-none.

D displays deleted checks.

ALL displays deleted as well as active checks.

Protect the CK command, action characters, and overtypeable columns with the standard methods: SAF or ISFPARMS

SAF

Resources in the XFACILIT, SDSF and OPERCMDS classes

XFACILIT:

- Protects check objects and associated actions
- New for R7: APAR OA10774
- ➤ Default return code 8. If class is active, customer must define profiles in that class for the CK panel. No fallback to ISFPARMS!

SAF resources – XFACILIT class

Function	XFACILIT Class Resource	Access
A action	HZS.sysname.chkowner.chkname.ACTIVATE	UPDATE
D action	HZS.sysname.chkowner.chkname.QUERY	READ
E action	HZS.sysname.chkowner.chkname.REFRESH	CONTROL
H action	HZS.sysname.chkowner.chkname.DEACTIVATE	UPDATE
P action	HZS.sysname.chkowner.chkname.DELETE	CONTROL
R action	HZS.sysname.chkowner.chkname.RUN	UPDATE
S, X actions	HZS.sysname.chkowner.chkname.MESSAGES	READ
U action, overtypes	HZS.sysname.chkowner.chkname.UPDATE	UPDATE

SAF resources – SDSF class

Function	SDSF Class Resource	Access
CK cmd.	ISFCMD.ODSP.HCHECKER.system	READ

SAF resources – SDSF and OPERCMDS classes

Function	SDSF Class Resource/ OPERCMDS Class Resource	Access
Overtypes	ISFATTR.CHECK.column MVS.MODIFY.STC.hcproc.hcstcid	UPDATE

Where *column* is CATEGORY, DEBUG, INTERVAL, SEVERITY, USERDATE or WTOTYPE

SAF resources – OPERCMDS class

Function	OPERCMDS Class Resource	Access
Action characters	MVS.MODIFY.STC.hcproc.hcstcid	UPDATE

- •ISFPARMS (SDSF's internal parameters)
 - •AUTH: Add CK to list
 - ➤or use AUTH(ALL) or AUTH(ALLOPER) to prevent having to make future updates
 - CMDLEV
 - Action characters are level 3, except S (browse) and X (print)
 - Overtypes are level 3



- New tabular panel
 - Monitor and manage JES2 resources (JOEs, JQEs, etc.)
 - Displays data similar to JES2 \$JDDETAILS command
 - Sysplex-capable with WebSphere MQ
 - Sort, filter, arrange support
 - Requires z/OS V1R7 JES2

Di	isplay	Filter Vie	w Print (Options	Help			
		OURCE MONITO	_	(ALL)			LINE 1-	
		INPUT ===> RCE S <mark>ys</mark> Id St		ne of th	ne resc	ource		> CSR ntHigh
1	BERT	SY1	4202	110	4.50	U 2	2	113
	BSCB	SY1	2002	0	0.00	0	0	0
	BUFX	SY1	120	0	0.00	70	0	0
	CKVR	SY1	17	0	0.00	80	0	1
	CMBS	SY1	1000	0	0.00	80	0	0

D – display details in the LOG (\$D command)

Display	Filter V	iew Pı	cint (Options	Help			
					. – – – – -			
SDSF RES	OURCE MONI	TOR DI	SPLAY	(ALL)			LINE 1	L-5 (16)
COMMAND	INPUT ===>	•				SC	CROLL ==	==> CSR
NP RESOU	RCE SysId	Status	Limit	InUse	InUse%	Warn%	IntAvg	IntHigh
BERT	SY1		4503	113	2.50	82	112	113
BSCB	SY1		2002	0	0.00	0	0	0
BUFX	SY1		120	0	0.00	70	0	0
CKVR	SY1		17	0	0.00	80	0	1
CMBS	SY1		1000	0	0.00	80	0	0

Shortage indicator:

WARNING, if the resource is currently over the warning level LIMIT, if the value for InUse is equal to the value for Limit (and InUse > 0)

Dis	splay	Filter	· Vie	v Pr	rint	C	Options	Help			
		OURCE 1		R DIS	SPLAY	- - -	(ALL)		90	LINE :	L-5 (16)
				atus	Limi	Ĺŧ	InUse	InUse%			IntHigh
	BERT	SY			450		113	2.50	82	112	113
	BSCB	SY	L		200	2	0	0.00	0	0	0
	BUFX	SY	L		12	20	0	0.00	70	0	0
	CKVR	SY	L		1	L7	0	0.00	80	0	1
	CMBS	SY	L		100	00	0	0.00	80	0	0
						Г					
		Ove	ertypea	able			Overt	ypeable	Э		

Overtypes generate \$T commands that vary with the resource.

Access the panel with the RM command:

RM (ALL | number-of-intervals)

where:

ALL specifies that all intervals for the resources should be shown. number-of-intervals specifies the maximum number of intervals that will be shown.

RM with no parameters shows only the current interval.

Display	Filter	View P	rint (Options	Help			
SDSF RES	OURCE MON	IITOR DI	SPLAY	(ALL)			LINE 1	L-5 (16)
COMMAND	INPUT ===	:>				SC	CROLL ==	==> CSR
NP RESOU	RCE Sysic	l Status	Limit	InUse	InUse%	Warn%	IntAvg	IntHigh
BERT	SY1		4503	113	2.50	82	112	113
BSCB	SY1		2002	0	0.00	0	0	0
BUFX	SY1		120	0	0.00	70	0	0
CKVR	SY1		17	0	0.00	80	0	1
CMBS	SY1		1000	0	0.00	80	0	0

>This example shows the most recent interval for each resource.

Di	splay F	ilter	View I	Print	Options	Help					
	SDSF RESOURCE MONITOR DISPLAY (ALL) COMMAND INPUT ===> SCROLL ===> CSR										
NP	RESOURCE	SysId	Limit	InUse	InUse%	Warn%	IntAvg	IntHigh	Time		
	BERT	AQFT	64100	2109	3.29	80	2149	2207	17:0		
	BERT	AQFT	64100	2180	3.40	80	2292	2370	16:0		
	BERT	AQFT	64100	2358	3.67	80	2387	2472	15:0		
	BERT	AQFT	64100	2360	3.68	80	2354	2400	14:0		
	BERT	AQFT	64100	2345	3.65	80	2329	2362	13:0		

➤ This example shows one row for each interval

Protect the RM command, action characters, and overtypeable columns with the standard methods: SAF or ISFPARMS

SAF resources – SDSF class

Function	SDSF Class Resource	Access
RM cmd.	ISFCMD.ODSP.RESMON.jesx	READ

SAF resources – SDSF and OPERCMDS classes

Function	SDSF Class Resource / OPERCMDS Class Resource	Access
Overtypes	ISFATTR.RESMON.column / jesx.MODIFY.resource	UPDATE / CONTROL

Complete list is in SDSF Operation and Customization

SAF resources – OPERCMDS class

Function	OPERCMDS Class Resource	Access
D action	jesx.MODIFY.RESOURCE	READ

- ISFPARMS (SDSF's internal parameters)
 - AUTH: Add RM to list
 - ➤ or use AUTH(ALL) or AUTH(ALLOPER) to prevent having to make future updates
 - •CMDLEV
 - Action character is level 1
 - Overtypes are level 3

Support for JES2 Monitor

New action characters on the MAS panel support the JES2 monitor:

- •J Display the current state of monitor subtasks (\$JDMONITOR)
- •JD Display monitor details (\$JDDETAILS)
- •JH Display resource history (\$JDHISTORY)
- •JJ Display the current state of JES2 (\$JDJES)
- •JS Display the current status of JES2 (\$JDSTATUS)
- ZM Stop the JES2 monitor (\$JSTOP)

Support for JES2 Monitor

Protect action characters with SAF or ISFPARMS

SAF: OPERCMDS resources

Action OPERCMDS resource Access jesxMON.DISPLAY.MONITOR READ jesxMON.DISPLAY.DETAIL JD READ JH jesxMON.DISPLAY.HISTORY RFAD JJ *jesx*MON.DISPLAY.JES RFAD JS *jesx*MON.DISPLAY.STATUS READ *jesx*MON.STOP.MONITOR CONTROL ZM

ISFPARMS: all CMDLEV 1

Other Changes for the New Panels:

Display pull-down redone – too many panels!

Old pull-down:

- 1. Status of jobs on any queue (ST)
- 2. Active users (DA)
- 3. Input queue (I)
- 4. Output queue (O)
- 5. Held output queue (H)
- 6. Printers (PR)
- 7. Initiators (INIT)
- 8. Members in the MAS (MAS)
- 9. User session log (U)
- 10. System log (LOG)
- 11. Lines (LI)

etc...

New pull-down:

- 1. Panels...
- 2. Logs..
- 3. Exit SDSF

Panels

Option ===>

More: +

- 1 Active users (DA)
- 2 Enclaves (ENC)
- 3 Health Checker (CK)

Changes for Console Restructure



- Master console not used for issuing commands
- Support for migration IDs removed
- In SDSF, this affects:
 - Issuing generated commands
 - options
 - SET CONSOLE parameter
 - •SR command parameters
- SDSF also adds new parameters to ISFPARMS

Issuing Commands – No Master Console

SDSF uses a console when issuing MVS or JES2 commands:

- If the user session log (for display on the ULOG panel) is active, SDSF uses an extended console (EMCS)
- If the user session log is not active, SDSF uses:
 - R6 and below:
 - Console ID of 0 for JES2 commands
 - Master console for MVS commands
 - >R7:
 - ➤ Console ID of 0 for JES2 and MVS commands

Issuing Commands – No Master Console

Specifying master console with the /

 R6 and below: Users could issue commands using the master console with

==> M/command

>R7, the M is n longer valid with /

Migration IDs

- Console restructure removes support for migration Ids
- •In response, SDSF:
 - •Removes the migration ID option from the SET CONSOLE command and pop-up

 SET CONSOLE console MIG NOMIG
 - No longer displays a migration ID on the title line of the ULOG panel

System Requests Panel (SR)

•New parameters on the SR command filter the panel by message type:

```
SR (ALL)

(ACTIONS|A) – action messages

(CEM) – critical eventual action messages

(EM) – eventual action messages

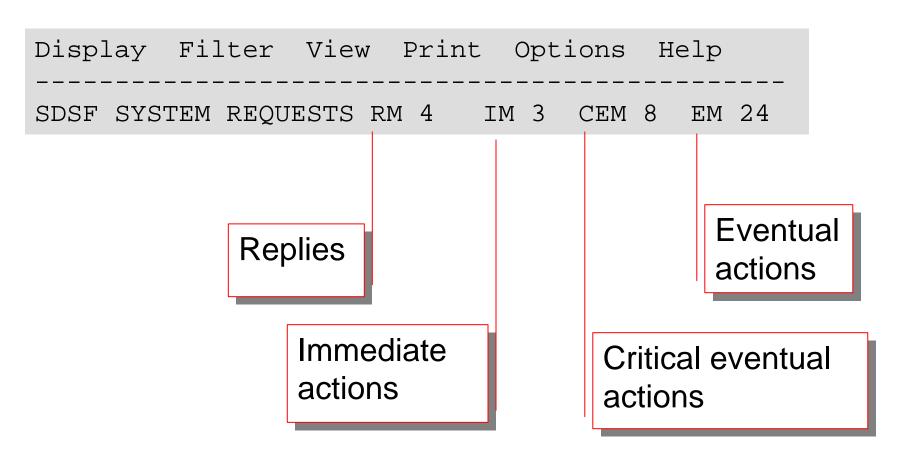
(IM) – immediate action messages

(MOUNTS|M) – DASD and tape mount messages

(REPLIES|R|RM) – reply messages
```

System Requests Panel (SR)

Counts for each are shown on the SR title line, for example:



ISFPARMS -- Require EMCS Console

- •SDSF makes it possible to require that SDSF use the extended master console services, rather than the internal console, on a group basis
- New parameter in ISFPARMS (GROUP statement):EMCSREQ (YES | NO)

YES

specifies that SDSF must use the EMCS support.

NO

specifies that the EMCS support is not required. SDSF may use console ID 0 (INTERNAL). This is the default.

ISFPARMS -- Specify EMCS Console Authority

- SDSF activates the EMCS console using MASTER authority. For some commands (such as RVARY) this may not be appropriate.
- New parameter in ISFPARMS (GROUP statement) **EMCSAUTH (MASTER | ALL)**

MASTER

specifies MASTER authority. This is the default.

ALL

specifies SYS,IO,CONS authority.

Restrict Console Sharing

- •SDSF permits the sharing of an EMCS console.
- •Command responses go to the user who has the console active, rather than the user who issued the commands.
- Usually done for ISPF split screen, with SDSF active on both sessions
- •Previously, sharing could also occur across different users and address spaces, through use of the SET CONSOLE command.
 - However, person sharing the console sees no responses
- •SDSF now checks that the console was activated by SDSF and has been activated in the same address space
 - Limits sharing to split screen
 - For compatibility, use flag UPRSFLG5.UPRS5CSX in an SDSF initialization exit

Default Browse Action Character



- Default browse action
 - Browse a job by pressing Enter next to it
 - No action character required

```
SDSF STATUS DISPLAY ALL CLASSES
COMMAND INPUT ===>
           JobID
NP
    JOBNAME
                           Status
                   Owner
    BKELLER TSU093 1
                  SDSF OUTPUT DISPLAY BKELLER JOB07810
    BKELLER JOB078
                  COMMAND INPUT ===>
    RKELLER TSU267
                 ***** TOP OF DATA
                                                  * * * * * *
                  \INMR01 S390VM BKELLER
                 12113 \INMR07
                                   BKELLER
                                            R17JSHP2 2
```

Default Browse Action Character

SET BROWSE (S | SB | SE | NONE | ?)

S is SDSF's browse. This displays the Output Data Set Panel.

SB is ISPF browse.

SE is ISPF edit.

NONE specifies that no action character should be issued.

? displays the current setting.

Default Browse Action Character

New ISFPARMS parameter (GROUP):

BROWSE (S | SB | SE | NONE)

Sets initial value

Cursor Placement Control: Changed Command

SET CURSOR (ON|TOP|OFF|?)

ON return cursor to the NP column for the row

>TOP scroll the row to the top of the panel

OFF return cursor to the command line

? display the current setting

Also statement in ISFPARMS to set the initial value: CURSOR (ON | OFF | TOP)

Interaction of SET BROWSE and SET CURSOR

Recommend SET CURSOR TOP if a default browse action is set.

Not SET CURSOR ON

Scenario w/ SET BROWSE S and SET CURSOR ON:

- 1. Overtype column
- 2. Press Enter, cursor returns to NP column
- 3. Press Enter again to see the change in the column
- 4. SDSF browses the job!

Unconditional Wait on / Command

After a / command, SDSF waits to display messages:

- Until the SET DELAY interval has passed
- Or the first message is received
- Sometimes there are later msgs not displayed
 With R7, SDSF adds new control over the wait:

```
==>(W) / (command)
```

SDSF should wait until the full SET DELAY interval has elapsed before displaying any messages.

Unconditional Wait on / Command

Example:

==>/f sdsf,d

Only one message displayed

ISF304I Modify DISPLAY command accepted.

==> w/f sdsf,d

Full set of messages displayed

ISF304I Modify DISPLAY command accepted.

ISF312I SDSF Display

Server status: Active Default: Yes

Communications: Inactive

Parms: ISFPRM01 / SYS1.PARMLIB

- UserData on the OD and JDS panels
 - Overtypeable
 - 16 related values you can access with overtype extension:
 - >Type + alone in the column to display a pop-up for all 16 values
- Protect the column
 - SAF: ISFATTR.OUTDESC.USERDATA in the SDSF class
 - ■ISFPARMS: CMDLEV 2

- OK action on H panel
 - O action is enhanced to allow users to request an outdisp of KEEP

New "kill" actions on PS panel

- **-**T
- Generates F BPXOINIT, TERM=pid
- Equivalent to sending a SIGTERM to the process using the shell cmd kill -s term pid
- •K
- Generates F BPXOINIT,FORCE=pid
- Equivalent to the shell cmd kill -s kill pid. This sends a SIGKILL to the process.

- Protect the T and K actions
 - ■SAF:

MVS.MODIFY.STC.BPXOINIT.BPXOINIT in the OPERCMDS class

ISFPARMS: CMDLEV 3

Migration Action for Protecting ENC and PS

- SAF resources that protect the ENC and PS commands have been changed to make them consistent with other like resources.
 - A system value has been added: ISFCMD.ODSP.ENCLAVE.system ISFCMD.ODSP.PROCESS.system
- •If you are protecting the commands with discrete profiles, then you must redefine, e.g. ISFCMD.ODSP.ENCLAVE → ISFCMD.ODSP.ENCLAVE.*

Support for the zAAP

DA panel has been updated for the zAAP:

- ■APAR PQ93310: Columns show zAAP use (and GCP use)
 - Complement CPU-Time and CPU% columns
- **APAR PKO6616**: Title line shows zAAP view of CPU use
 - Complements MVS and LPAR views
 - Also adds a new column for zAAP use for the system
- Support for V1R5 and up

APAR PK06616: Support for the zAAP

- DA title line adds a zAAP view of CPU use
 - Shown only if a zAAP is defined and RMF is being used
- "Key" shows the order of the views
- ■To make room, SIO is removed

SDSF DA AQFT (ALL) PAG 0 CPU/L/Z 21/21/21...

Key: MVS/ LPAR/zAAP

Values

APAR PK06616: Support for the zAAP

Customizing the DA title line:

- CPUFMT(SHORT) on the GROUP statement of ISFPARMS
 - ➤ Only the CPU value is shown
- Compatibility flag in the initialization user exit
 - ➤ Title line should be as before the APAR (with SIO)
 - •UPRSFLG5.UPRS5DSI

JES2 Support of TCP/IP

- JES2 is adding support for NJE connections over TCP/IP
- SDSF's support for the JES2 enhancement shipped with V1R7
 - Ready to go
 - New columns on Lines and Nodes panels

JES2 Support of TCP/IP

NetSrv

New columns on the Lines and Nodes panels:

Title	Description	_	
SocketN	Socket name		
IP Addr	IP address		
IPName	IP name		
Port	TCP/IP port number		Lines
PortName	TCP/IP port name		
Secure	Secure socket (SSL)		
NSName	Network server name		
➤Overtypeable Unit column now accepts TCPIP			

Network server number - Overtypeable

Nodes

Resources

For more information, see:

- Online help for columns, commands, actions, overtypes
- z/OS SDSF Operation and Customization, SA22-7670 for ISFPARMS, SAF
 - •On the Web:

www.ibm.com/servers/eserver/zseries/zos/bkserv/