

What's new in SDSF z/OS 1.13? Session 9706

SHARE in Orlando, Summer 2011

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SHARE Technology - Contections - Results

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SDSF z/OS 1.13

- Eliminate requirement for MQ Series to obtain sysplex data
- OPERLOG color
- OPERLOG Rexx support
- EAV (large data set) support
- JES2/JES3 equivalence
 - H, O, INIT panels
 - Device panels
 - New networking panels (NS, NC)
- Point-and-shoot / Cursor sort
- Miscellaneous changes





SHARE Technology - Connections - Results

Installation

- z/OS V1R13 SDSF packaging is similar to R12:
 - SDSF base FMID HQX7780
 - Contains common code and JES3 support
 - SDSF JES2 feature FMID JJE778S
 - Contains JES2 support
 - JES2 installations must install both HQX7780 and JJE778S
 - By default no assemblies are done at SMP/E APPLY time







Migration & Coexistence Considerations

- Sharing SDSF 1.13 Server Parms with lower releases of SDSF
 - For this function, if you are sharing ISFPRMxx with SDSF 1.11 and/or 1.12 systems you must install the toleration PTFs associated with APARs PM03128 and PM33350 :
 - For SDSF 1.11, UK90030 and UK90032 (HQX7760)
 - For SDSF 1.12, UK90031 and UK90033 (HQX7770)
- Displaying devices from a JES2 1.13 system on lower releases
 - JES2 compatibility APAR(s) in down-level data gathering code, when in a mixed MAS with z/OS 1.11 or z/OS 1.12
 - OA35942 and all prerequisites





WebSphere MQ Elimination



- Problem Statement / Need Addressed
 - SDSF should not require WebSphere MQ for sysplex support

Solution

 Replace WebSphere MQ with XCF based solution for CK, PS, ENC, and RM panels

• Benefit / Value

• Simplified configuration and no dependency on MQSeries







SDSF Sysplex Displays

- SDSF provides sysplex view of panels:
 - **CK** (health checks)
 - **PS** (processes)
 - ENC (enclaves)
 - **RM** (JES2 resources)
- Data gathered on each system using the SDSF server
- Consolidated on client for display
 - User can see data from all systems





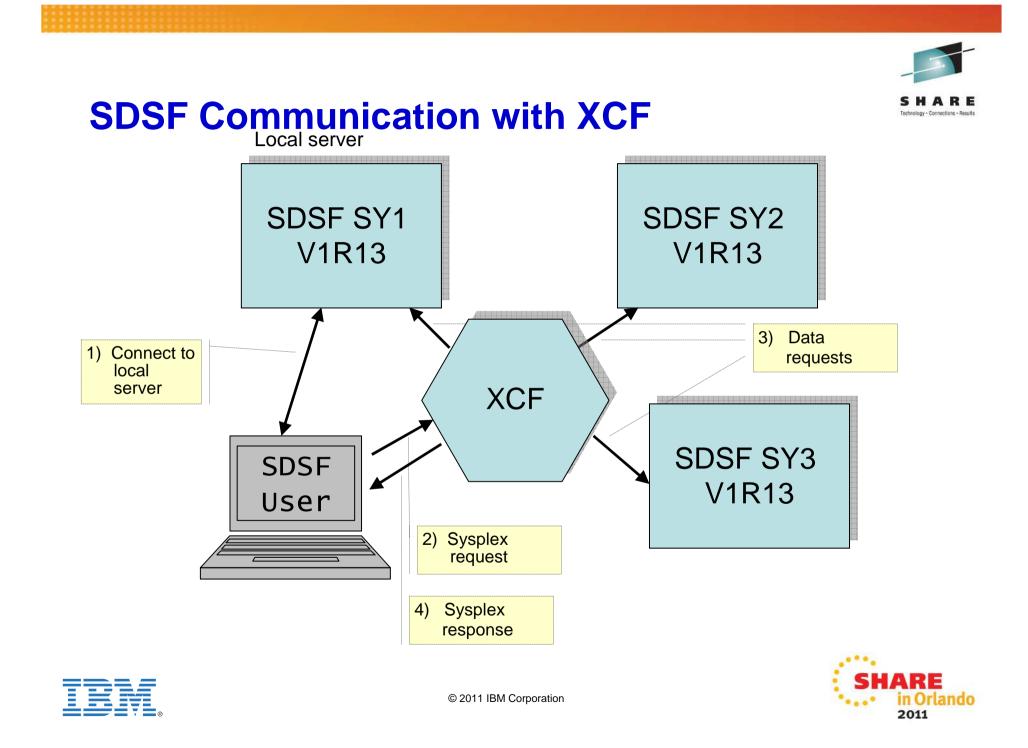


WebSphere MQ Elimination

- Prior to V1R13, WebSphere MQ was used to send requests to SDSF servers on other members and receive responses
- With V1R13, XCF will be used
 - All target systems must be at least V1R13 level
 - SDSF server must be started on each system
- In mixed environment (V1R13 and downlevels)
 - Use SET CMODE command or ISFPRMxx custom property to control behavior:
 - Revert to MQ -or-
 - Use XCF and ignore downlevel systems









Sysplex-wide Panel Displays

SDSF HEALTH CHECKER DISPLAY	(ALL)		LINE 1-35 (41)							
COMMAND INPUT ===>			SCROLL ===> CSR							
PREFIX=* DEST=(ALL) OWNER=* SORT=Interval/A SYSNAME=*										
NP NAME	CheckOwner	SysName	NextSch-Int							
VSM_CSA_THRESHOLD	IBMVSM	SY1	0:00:13							
VSM_CSA_THRESHOLD	IBMVSM	SY3	0:01:28							
VSM_CSA_THRESHOLD	IBMVSM	SY4	0:03:59							
CNZ_TASK_TABLE	IBMCNZ	SY1	0:05:06							
RSM_HVSHARE	IBMRSM	SY1	0:05:06							
RSM_MAXCADS	IBMRSM	SY1	0:05:06							
VSM_SQA_THRESHOLD	IBMVSM	SY1	0:05:06							
CNZ_TASK_TABLE	IBMCNZ	SY3	0:11:28							
RSM_HVSHARE	IBMRSM	SY3	0:11:28							
RSM_MAXCADS	IBMRSM	SY3	0:11:28							
VSM_SQA_THRESHOLD	IBMVSM	SY3	0:11:28							
CNZ_TASK_TABLE	IBMCNZ	SY4	0:13:59							
	A 11									
	All systems show	vn								







Configuration

- Use of XCF is configured by default
 - Use CONNECT and PROPERTY statements in ISFPRMxx to customize
- All members in the sysplex are included
 - Must be at V1R13 level or higher
- Use **SYSNAME** command to specify system name pattern
 - **SYSNAME** * to display data from all systems
 - **SYSNAME** with no arguments to display only local system







ISFPRMxx Configuration

- **CONNECT** statement
 - New XCFSRVNM keyword
 - Used to derive XCF application server name
 - Application server name links SDSF servers with clients

XCFSRVNM(SAME | NONE | name)

- **SAME** use SDSF server name as last qualifier (default)
- NONE disable use of XCF
- *name* use name as last qualifier server name will be of the form ISFSRVR.*name*





SET CMODE Command and Custom Property



- New SET CMODE command to control fallback to MQ
 SET CMODE (blank) | Z12 | Z13
 - Blank (default for the release) (Z13)
 - **Z12** MQ should be used if not all targets are V1R13 level
 - **Z13** XCF should be used (downlevel targets will be ignored)
- New **Comm.Release.Mode** custom property in ISFPRM*xx*
 - Used to assign default CMODE
 - SET CMODE command overrides this property







WHO Command Response

- WHO command response changed
 - **COMMX=** keyword added to show XCF status

USERID=D96CLW1, PROC=SDSF31EJ, TERMINAL=Z046LC11, GRPINDEX=1, GRPNAME=ISFSPROG, MVS=z/OS 01.13.00, JES=z/OS1.13, SDSF=HQX7780, ISPF=6.3, RMF/DA=NOTACC, SERVER=YES, SERVERNAME=SDSF, JESNAME=JES2, MEMBER=SY1, JESTYPE=JES2, SYSNAME=SY1, SYSPLEX=PLEX1, COMM=NOTAVAIL, COMMX=ENABLED







Commands

• **f sdsf,d** enhanced to show XCF configuration status

SY1 S0000002 ISF312I SDSF Display
Server status: Active Default: Yes
Communications: Inactive
Parms: ISFPRMM0 / SYS2.PARMLIB
XCF Communications: Configured

- **f sdsf,d,c** to show XCF processing status
 - SY1 S0000002 ISF315I SDSF XCF Communications Application server name: ISFSRVR SDSF Tasks Active: 000 Idle: 010 Sends: 000000000 Receives: 000000010







SDSF/Rexx Operlog Enhancements

- Problem Statement / Need Addressed
 - Access Operlog through SDSF/REXX
 - Improve Operlog panel usability through color and highlighting
- Solution
 - Enhance SDSF/REXX ISFLOG command
 - Enhance SDSF Operlog panel and SET SCREEN command
- Benefit / Value
 - Use SDSF/REXX to access Operlog similar to Syslog
 - Control color and highlighting on Operlog panel







SDSF/Rexx Operlog Enhancements

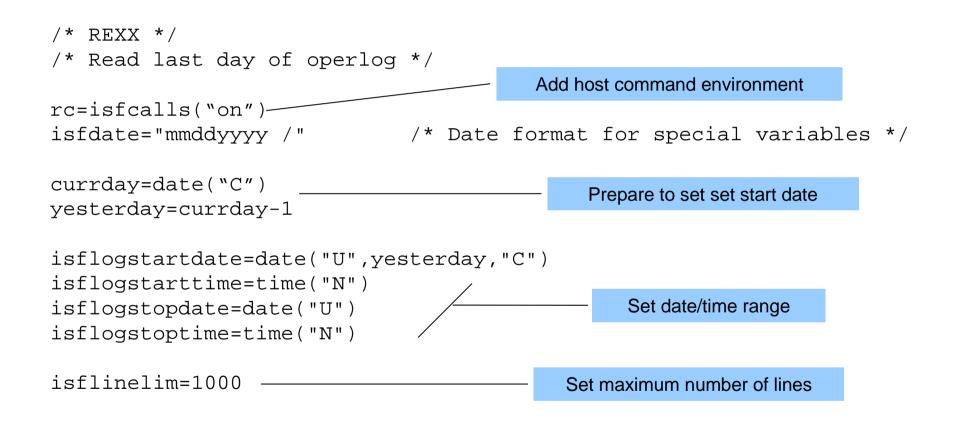
- Changed syntax of ISFLOG command:
 - ISFLOG READ TYPE(SYSLOG | OPERLOG)
- Use special variables to specify a date and time range to read
 - Same variables as used when reading Syslog:
 - isflogstartdate, isflogstarttime
 - isflogstopdate, isflogstoptime
 - Default is 00:00:00.00 through 23:59:59.59 of current day
- Data returned in isfline stem variable
 - isfline.0 has count of variables that follow







SDSF/Rexx Operlog Example

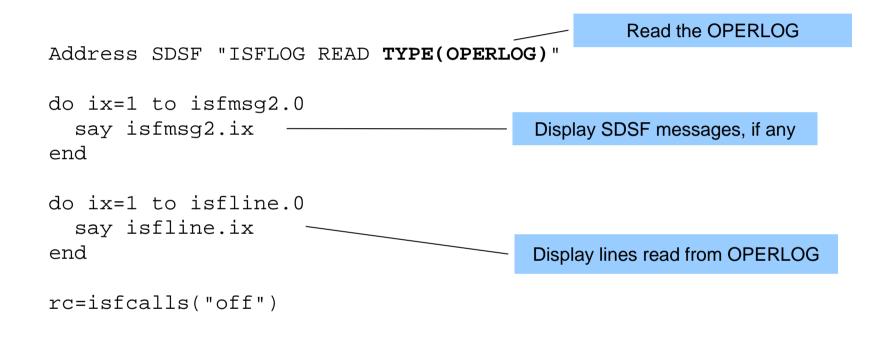








SDSF/Rexx Operlog Example







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SDSF/Rexx Operlog Example

• Sample messages (from isfmsg2 stem variable)

ISF754I Command 'SET DATE MMDDYYYY /' generated from associated variable ISFDATE. ISF757I Variable ISFLINELIM being processed with value '1000'. ISF757I Variable ISFLOGSTARTTIME being processed with value '15:05:35'. ISF757I Variable ISFLOGSTARTDATE being processed with value '01/24/11'. ISF757I Variable ISFLOGSTOPTIME being processed with value '15:05:35'. ISF757I Variable ISFLOGSTOPDATE being processed with value '01/25/11'. ISF7757I Variable ISFLOGSTOPDATE being processed with value '01/25/11'. ISF770W Request limit 1000 from variable ISFLINELIM reached, processing stopped. ISF767I Request completed.





SDSF/Rexx Operlog Example



• Sample responses (from isfline stem variable)

M C000000 SY1	2011025 13:30:05.58	00000200	IXL015I STRUCTURE AL
D		633 00000200	STRUCTURE SYSZWLM_WO
D		633 00000200	CONNECTIVITY=DEFAULT
D		633 00000200	CFNAME ALLOCATI
D		633 00000200	
D		633 00000200	LF01 INVALID
D		633 00000200	INITSIZ
D		633 00000200	LF02 NO CONNE
E		633 00000200	SIGLISTS NO CONNE
NC0000000 SY2	2011025 13:26:45.44	INTERNAL 00000290	CONTROL M,UEXIT=Y IE
NR0000000 SY2	2011025 13:26:45.67	INTERNAL 00000090	IEA590I WTO USER EXI
N 0000000 SY2	2011025 13:26:00.42	00000290	IEA371I SYS1.PARMLIB







Operlog Colorization

- Operlog panel enhanced
 - Messages displayed in original color, highlighting, and intensity as first issued
 - LOG command to display Operlog (when Operlog active)
 ISPF only
 - User override based on descriptor code
 - For example, user can change descriptor 2 messages to red
 - Use **SET SCREEN** to change default colors or to turn function off







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Operlog Display

<u>D</u> isplay	y <u>F</u> il	ter <u>V</u> iew <u>F</u>	<u>Print Option</u>	ns <u>S</u> earch	h <u>H</u> elp	
SDSF OPER		DATE 05/05/2		TORS		COLUMNS 02- 81
COMMAND	INPUT	===> SET SCR	REEN			SCROLL ===> CSR
E					00000090	
M 4040000	SY2	2011125	15:07:42.48			*HZS0003E CHECK(IBMRACF
D					00000090	IRRH204E The RACF_SENS
E					00000090	more potential errors
NC0000000	SY2		15:19:54.25			LOGON
N 0200000		2011125	15:20:04.31	T0000035	00000000	\$HASP100 ROWBEAR ON T
N 4000000	SY2	2011125	15:20:04.36	T0000035	00000000	\$HASP373 ROWBEAR STAR
N 0000000	SY2	2011125	15:20:04.41	T0000035	00000000	IEF125I ROWBEAR - LOGG
N 0020000	SY2	2011125	15:20:25.41	T0000035	00000000	ISF020E SDSF LEVEL ERR
S						z/OS1.13 BUT JES2 IS A
M 4000000	SY2	2011125	15:20:25.45		00000000	IEA045I AN SVC DUMP HA
D				755	00000000	FOR ASID (0026)
D				755	00000000	ERROR ID = SEQ00037 CP
E				755	00000000	QUIESCE = YES
M 4000000	SY2	2011125	15:20:26.14	T0000035	00000000	IEA794I SVC DUMP HAS C
D				756	00000000	DUMPID=002 REQUESTED B
D				756	00000000	DUMP TITLE=ABEND=U0081
E				756	00000000	S,ISSUER=IS
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SET SCREEN Popup

Display Fi	lter View A	Print Options Search Help							
		2 Set Screen Characteristics							
COMMAND INPUT	===> SET SC								
Select the elements that you want to customize.									
4040000 SY2	2011125								
		2 1. Basic settings and tabular panels							
		2. OPERLOG panel							
C0000000 SY2	2011125								
0200000 SY2	2011125	F1=Help F2=Split F3=Cancel F9=Swap							
4000000 SY2	2011125	F12=Cancel							
0000000 SY2	2011125								
0020000 SY2	2011125	15:20:25.41 T0000035 00000000 ISF020E SDSF LEVEL ERR							
S		z/0S1.13 BUT JES2 IS A							
M 4000000 SY2	2011125	15:20:25.45 00000000 IEA045I AN SVC DUMP HA							
D		755 00000000 FOR ASID (0026)							
D		755 00000000 ERROR ID = SEQ00037 CP							
E		755 00000000 QUIESCE = YES							
M 4000000 SY2	2011125	15:20:26.14 T0000035 00000000 IEA794I SVC DUMP HAS C							
D		756 00000000 DUMPID=002 REQUESTED B							
D		756 00000000 DUMP TITLE=ABEND=U0081							
E		756 00000000 S,ISSUER=IS							
F1=HELP	F2=SPLIT	F3=END F4=RETURN F5=IFIND F6=B00K							
F7=UP	F8=D0WN	F9=SWAP F10=LEFT F11=RIGHT F12=RETRIEVE							







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Operlog Color Popup

Displ	Set Screen Characteristics	: OPERLOG F	anel	
SDSF OP COMMAND			More:	+
404000	Use color and highlighting 1 1.	Yes 2.	lo	
	Type values to override the original Press F5/17 to see changes.	color and	highlighting	.
C000000				1
020000	Descriptor code Colo	or Highl	ight Intens	ity
400000	1 - System failure			I
000000	2 - Immediate action required			I
002000	3 - Eventual action required			l I
	4 - System status			l.
400000	5 - Immediate command response RED	USCO	<u>RE</u> <u>HIGH</u>	1
	6 - Job status			l I
	7 - Task-related			1
	8 - Out of line			I
400000	9 - Operator's request			1
	10 - Not defined			1
	11 - Critical eventual action			1
	F1=Help F2=Split F3=Cancel	F5=Ref	resh F6=Defa	ault
F1=HEL	F7=Backward F8=Forward F9=Swap	F10=Cold	or F11=Cuaa	attr
F7=UP				
= =				SHAR





SDSF EAV Support

Problem Statement / Need Addressed

 SDSF print support for output datasets residing on extended addressing volumes (EAV)

Solution

 New options on PRINT D popup, REXX special variables, Java print settings

Benefit / Value

• SDSF can print to large data sets







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Print Data Set Panel

COMMAND INPUT ===>	SDSF Ope	n Print Data Set SCROLL ===> HALF
Data set name ===> Member to use ===> Disposition ===>		SK.LOGON.LIST' , NEW, SHR, MOD)
Volume serial Device type Data class	===> 500 ===>	<pre>(Blank for default management class) (Blank for default storage class) (Blank for authorized default volume) (Generic unit or device address) (Blank for default data class) (BLKS, TRKS, CYLS, BY, KB, or MB) (In above units) (In above units) (Zero for sequential data set)</pre>
Data set name type Extended attributes		(LIBRARY, blank, See Help for more) (NO, OPT, or blank)



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Rexx and Java

- Rexx special variables
 - Used with ISFACT
 - isfprtdsntype
 - isfprtextaddr
 - Dropped by isfreset()
- Java settings
 - ISFPrintDatasetSettings class methods
 - addISFPrtDSNType
 - addISFPrtExtAttr
 - removelSFPrtDSNType
 - removelSFPrtExtAttr







JES2/JES3 Equivalence

Problem Statement / Need Addressed

- Not all panels were supported under JES3
- Panels depend on JES2 control blocks, making them inaccessible to JES3, as well as difficult to maintain

Solution

- Goal is to make all existing functionality that makes sense in JES3 available in JES3 environment
 - 7 existing panels enabled for JES3
 - 3 new panels created to fill functional gaps
 - Additional columns on device panels in both JES2 and JES3

• Benefit / Value

- Panels now work under JES3
- JESPlex scope is now implicit in these panels







JES2/JES3 Equivalence: Panels Updated

- Changes to existing panels:
 - **O** (Output) and **H** (Held Output) panels enabled for JES3
 - **PR** (Printer) updated to support JES3 RJP printers
 - **PU** (Punch), **RD** (Reader), **LI** (Line), **INIT** (initiator), and **NO** (Node) panels updated to use SSI to obtain data, and enabled for JES3
 - **SO** (Spool Offload) panel updated to use SSI (JES2 only)
 - Additional columns added to most of these panels in both JES2 and JES3 environments
- New panels:
 - New NS (Network Server) and NC (Network Connection) panels added for both JES2 and JES3
 - New **J0** (Job Zero) panel added for JES3







Technology - Connections - Results

SDSF Primary Option Menu – JES3

<u>D</u> is	olay <u>F</u> ilter <u>V</u> iew <u>P</u> rint <u>O</u> ptions	<u>S</u> ear	ch <u>H</u> elp
-	80 SDSF PRIMARY ND INPUT ===>	OPTIO	N MENU SCROLL ===> CSR
DA	Active users	INIT	Initiators
I	Input queue	PR	Printers
0	Output queue	PUN	Punches
Н	Held output queue	RDR	Readers
ST	Status of jobs	LINE	Lines
JO	Job zero	NODE	Nodes
		SP	Spool volumes
LOG	System log	NS	
SR	System requests	NC	Network connections
JP	Members in the JESPlex		
JC	Job classes	CK	Health checker
SE	Scheduling environments		
RES	WLM resources	ULOG	User session log
ENC	Enclaves		
PS	Processes		
END	Exit SDSF		







O and **H** panel changes

- Output is returned via SSI 80 (as with JES2)
- No overtypes allowed on panel
 - Use ? action to access JDS display for overtypes
- Actions allowed
 - ? access JDS panel
 - **Q** access output descriptors
 - S,SE,SB browse data
 - SJ edit JCL
 - X,XC,XD,XDC,XF,XFC,XS,XSC Print







Output Display – JES3

<u>D</u> isp	lay <u>F</u> ilt	er <u>V</u> iew	<u>P</u> rint <u>O</u>	ption	S	<u>S</u> earch	<u>H</u> elp	
<pre>SDSF OUTPUT ALL CLASSES ALL FORMS LINES 1,043 LINE 1-14 (14) COMMAND INPUT ===> SCR0LL ===> CSR ACTION=//-Block,=-Repeat,+-Extend,?-JDS,Q-OutDesc,S-Browse,SB-ISPFBrowse,</pre>								
ACTI	ON=SE-ISPH	FEdit,SJ-	JCLEdit,X	-Print	:,>	<pre>KC-Print</pre>	Close,XD-Pri	ntDS,
	ON=XDC-Pr: ON=XSC-Pr:			tFile,	XF	C-Print	FileClose,XS	-PrintSysout,
NP	JOBNAME	JobID	0wner	Prty	С	Forms	Dest	Tot-Rec T
	BPXAS		OMVSKERN			1PRT	ANYLOCAL	54
	BPXAS		OMVSKERN			1PRT	ANYLOCAL	54
	BPXAS DIP		OMVSKERN SYSTASK			1PRT 1PRT	ANYLOCAL ANYLOCAL	53 42
	FTPD		SYSTASK			1PRT	ANYLOCAL	121
	INETD		SYSTASK			1PRT	ANYLOCAL	50
	IRRDP190	J0B00012	SYSTASK	15	А	1PRT	ANYLOCAL	45
		J0B00012		15		1PRT	ANYLOCAL	3
		J0B00013				1PRT	ANYLOCAL	31
	READTCP	J0B00006		15		1PRT	ANYLOCAL	52
		J0B00007	SUSF SYSTASK			1PRT 1PRT	ANYLOCAL ANYLOCAL	373 75
		J0B000015		15		1PRT	ANYLOCAL	75
	TCAS	J0B00010		15		1PRT	ANYLOCAL	15





PR (Print), PU (Punch), and RDR (Reader) Displays



- SSI 83 now used to obtain device data
 - SYSPLEX view does not require SDSF Server
- PR, PU, and RDR commands in JES3 environment allow LCL RMT parameter to obtain local or RJP devices only
 - Default is to obtain both
 - Numeric device range not allowed in JES3
- Additional RJE/RJP-related columns added in both JES2 and JES3 environments
- Fixed field (device name) expanded to 10 bytes
 - Panel.PUN.DevnameAlwaysShort and Panel.RDR.DevnameAlwaysShort custom properties in ISFPRMxx to revert to prior behavior







LI (Line) Display

- SSI 83 now used to obtain device data
 - SYSPLEX view does not require SDSF server
- Enabled for JES3, only apples to BSC or CTC NJE/RJP lines
 - Displays devices defined by
 - DEVICE DTYPE=NJELINE
 - RJPLINE
 - No line construct in JES3 for SNA or TCP/IP connections
- LI Command in JES3 environment allows SHORT parameter to suppress NJE transmitters and receivers
 - Default is to display lines and associated NJE transmitters/receivers
 - Numeric device range not allowed in JES3
- Additional columns added in both JES2 and JES3 environments







LI (Line) Display – JES3

<u>D</u> isplay <u>F</u> ilter	r <u>V</u> iew <u>P</u> r	rint	<u>O</u> ptions	<u>S</u> ear	ch <u>H</u> elp				
SDSF LINE DISPLAYSY1LINE 1-8 (8)COMMAND INPUT ===> liSCROLL ===> PAGEACTION=//-Block,=-Repeat,+-Extend,C-Cancel,D-Display,DE-DisplayErrors,									
ACTION=DL-Displa ACTION=LD-FailDu	,					· · ·			
ACTION=SR-StartR	cv,SRJP-St	artRJI	p,V-Vary	0n,VF-	VaryOff			_	
NP DEVICE LINE1	Status INACTIVE		· · ·	de	JobName	JobID	0wner	Proc-Lin	
LINE2	INACTIVE	0907							
LINE26 LINE28	ON,INA ON,INA		RJP RJP						
LINE3 LINE3.JR1	ACTIVE INACTIVE	0C40	NJE						
LINE3.JT1	INACTIVE								
LINE3.OR1 LINE3.OT1	INACTIVE INACTIVE								
LINE4	INACTIVE	0C41							
LINE5	INACTIVE	0C42	NJE						





NO (Node) Display



- SSI 82 now used to obtain node data
 - SYSPLEX view does not require SDSF server
- Enabled for JES3
 - Fixed column is **NODENAME** as node numbers do not apply.
 - Positional parameters for node number range not allowed for JES3.
- Additional columns added for both JES2 and JES3







NO (Node) Display – JES3

<u>D</u> isplay <u>F</u> il	ter <u>V</u> iew <u>P</u>	rint <u>O</u> ptic	ons <u>S</u> ear	ch <u>H</u> e	lp		
SDSF NODE DIS COMMAND INPUT ACTION=//-Blo ACTION=EL-Res	===> <mark>no</mark> ck,=-Repeat,)-Disp	LINE 1-14 SC lay,DL-Display	ROLL ===>	CSR
NP NODENAME APPLJES2 KGNVMC	Status UNCONNECTED UNCONNECTED UNCONNECTED UNCONNECTED CONNECTED/A	LIAS	Path SYSA5N SYSA2N SYSA2N SYSA2N SYSA2N SYSA2N SYSA2N SYSA2N SYSA2N SYSA2N SYSA2N SYSA5N SYSA5N SYSA5N	PType BSC TCPIP SNA	Hold LineName NONE NONE NONE NONE NONE NONE NONE NON	VerifyP NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET NOTSET	SendP NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE NOTSE



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INIT (Initiator) Display

- Previously updated to use SSI 82 in z/OS 1.12
- Enabled for JES3 in z/OS 1.13
- JES3 display shows rows corresponding to:
 - Groups (defined by GROUP parameter)
 - Classes (classes within each group)
 - Initiators (initiators)
 - ResType column indicates what is represented by the row
- Both JES3-managed and WLM-managed initiators are displayed
 - **INIT JES** to see only JES-managed inits/classes/groups
 - **INIT WLM** to see only WLM-managed inits/classes/groups
 - **INIT ALL** to see all inits/classes/groups







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INIT (Initiator) Display – JES3

<u>D</u> isplay <u>F</u> il	ter <u>V</u> iew <u>P</u> r	int <u>O</u> pti	ons <u>S</u> ea	rch <u>H</u> elp			
SDSF INITIATO	R DISPLAY SY	1			ITNF 1	5-31 (260))
COMMAND INPUT						SCROLL ==	
ACTION=//-Blo		-Fxtend D	-Disnlav	DI -Displa	avlong P-9		
NP ID	Status	Group		JobName	· · · · ·		C
JES3TEST		JES3TEST		Sobridine	Scopriane	50010	C
A	ON	JES3TEST	CLASS				А
A	ACTIVE		INIT	MANYSPIN	GO	J0B00031	A
ANY	ON	JES3TEST	CLASS		00	30000031	ANY
B	ON	JES3TEST	CLASS				B
FAILCAN	ON	JES3TEST	CLASS				FAILCAN
FAILHOLD	ON	JESSTEST	CLASS				FAILHOLD
FAILPRT	ON	JES3TEST	CLASS				FAILPRT
FAILRES	ON	JESSTEST	CLASS				FAILRES
FORCESY1		JES3TEST	CLASS				FORCESY1
FORCESY2	NOT ELIGIBLE		CLASS				FORCESY2
GLOBAL	ON	JES3TEST	CLASS				GLOBAL
НОТ	ON	JES3TEST	CLASS				НОТ
LOCAL	NOT ELIGIBLE	JES3TEST	CLASS				LOCAL
LOG	NOT ELIGIBLE	JES3TEST	CLASS				LOG
MARYK	ON	JES3TEST	CLASS				MARYK
MYCLASS	ON	JES3TEST	CLASS				MYCLASS
							SHARE
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NS (Network Server) Display



- New display for both JES2 and JES3
- JES2 displays NETSRV and LOGON devices
- JES3 displays NETSERV devices
- SSI 83 used to obtain data
 - SYSPLEX view does not require SDSF server
- NS command allows up to 4 numerical device ranges for JES2
 - Displays both NETSRV and LOGON devices corresponding to range







<u>D</u> isplay <u>F</u> ilter <u>V</u> iew <u>P</u>	rint <u>O</u> ptions	<u>S</u> earch <u>H</u> elp	
SDSF INITIATOR DISPLAY SY COMMAND INPUT ===> ACTION=//-Block,=-Repeat,+ ACTION=DS-DisplaySocket,E- ACTION=Z-SysForce	Extend,D-Disp	lay,DA-DisplayApp	
NPDEVICEStatusNETSRV1DRAINEDNETSRV2DRAINEDNETSRV3DRAINEDLOGON1DRAINEDLOGON2DRAINED	Appl Sock S1 S2 S3 SYSA1N SYSA2N	et Stack Res NO NO NO NO NO	start Rest-Int Tr NO NO NO NO NO







NC (Network Connection) Display

- New display for both JES2 and JES3
- JES2 displays SOCKET, APPL, and active BSC NJE Line devices, plus associated NJE transmitters and receivers
- JES3 displays SOCKET and active BSC NJE Line devices, plus associated NJE transmitters and receivers
 - No support for BDT connections
- **NC SHORT** displays devices without associated transmitters and receivers (both JES2 and JES3)
- SSI 83 used to obtain data
 - SYSPLEX view does not require SDSF server







<u>D</u> isplay	<u>F</u> ilter	<u>V</u> iew <u>P</u>	rint	<u>O</u> ptions	<u>S</u> earch <u>I</u>	<u>H</u> elp		
SDSF NC D COMMAND I	> nc sho						LL ===> CSR	
ACTION=// ACTION=S-:				na,u-uisp	olay, DL-D	splayLine	e,E-Restar	τ,Ρ-Stop,
NP DEVI	CE	Status	Туре	ANode	JobName	JobID	JType	0wner
JESA JESC		INACTIVI INACTIVI		WSC WSC				
JES2		INACTIV		WSC				
JES2		INACTIV		SANJOSE				
LU40		INACTIVI ACTIVE	E SNA BSC	AS400 WSC				
SJ0	20	ACTIVE	TCP	SANJOSE				
SJ01		INACTIV	E TCP	SANJOSE				
SJ01		INACTIV		SANJOSE				
SJ01 SJ01		INACTIVI INACTIVI		SANJOSE SANJOSE				
SJ01		INACTIV		SANJOSE				
SJ014		INACTIV		SANJOSE				
SJ01 SJ01		INACTIVI INACTIVI		SANJOSE SANJOSE				
SJ01 SJ01		INACTIV		SANJOSE				
								SHARE



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<u>D</u> isplay	<u>F</u> ilter	<u>V</u> iew <u>P</u> r	int	<u>O</u> ptions	<u>S</u> earch <u>I</u>	<u>H</u> elp		
SDSF NC D COMMAND I ACTION=//	NPUT ===	> nc		nd D Dicn				L ===> CSR
ACTION=//				ια,υ-υτομ	itay, DE-DI	зргаустне	, L-NEStar	ι,
JES2 JES2 LU40 LINE L20. L20.	N2 N3 0A 20 JR1 JT1 SR1	Status INACTIVE INACTIVE INACTIVE INACTIVE ACTIVE INACTIVE INACTIVE INACTIVE INACTIVE	SNA SNA SNA SNA SNA BSC	WSC SANJOSE AS400	JobName	JobID	JType	Owner
SJ0 L101 L101	.JR1 .JT1 .SR1	ACTIVE INACTIVE INACTIVE INACTIVE	ТСР	SANJOSE				
	.ST1	INACTIVE INACTIVE	ТСР	SANJOSE				SHARE





<u>D</u> isplay <u>F</u> ilter	<u>V</u> iew <u>P</u> rint <u>O</u> ptions <u>S</u> earch <u>H</u> e	elp
SDSF NC DISPLAY COMMAND INPUT ===	nc	LINE 1-13 (13) SCROLL ===> CSR
NP DEVICE @00000001 @0000001.JR1	Repeat,+-Extend,C-Cancel,D-Displ Status Type ANode JobName ACTIVE TCP SYSA2N INACTIVE	-
@0000001.JT1 @00000001.OR1 @0000001.OT1	INACTIVE INACTIVE	
LINE1 LINE2 LINE3	INACTIVE BSC INACTIVE BSC INACTIVE BSC	
LINE4 LINE5 S1	INACTIVE BSC INACTIVE BSC INACTIVE TCP	
S2 S3	INACTIVE TCP INACTIVE TCP	







J0 (Job Zero) Display

- New display for JES3
- Displays SYSOUT data associated with JES3 job 0
 - Output can be browsed, modified, printed, deleted, etc.

<u>D</u> isplay <u>F</u> ilter <u>V</u> iew <u>P</u> rint	<u>O</u> ptions <u>S</u> earch <u>H</u> e	elp
SDSF JOB 0 DISPLAY COMMAND INPUT ===>	LINES 12	LINE 1-1 (1) SCROLL ===> CSR
ACTION=//-Block,=-Repeat,+-Ext)-Display,H-Hold,O-Release,
ACTION=P-Purge,Q-OutDesc,S-Bro ACTION=XC-PrintClose,XD-Print[DS,XDC-PrintDSClose,X	<pre>KF-PrintFile,</pre>
ACTION=XFC-PrintFileClose,XS-F NP DSPNAME DSID Owner C		
DISPLAY 1 JES2 A	1 LINE C 1P	PRT 6 PN







Point-and-Shoot / Cursor Sort

- Point-and-shoot fields on primary panel and column headings for interactive users
 - On primary panel, takes user to selected panel (ISPF only)
 - On tabular column header, invokes sort on that column
 - If the column is not currently being sorted on the sort is set to Ascending on that column (SORT column A)
 - If the column is already being sorted on Ascending it is set to Descending on that column (SORT column D)
 - If the column is already being sorted on Descending it will be set OFF (SORT OFF)
 - Replaces any existing user sort criteria as it is a shortcut to using the SORT command.







Cursor Sort Commands

- SET CSORT command to enable or disable cursor sorting
 - SET CSORT ? Displays the current setting of cursor sort (ON or OFF)
 - SET CSORT ON will enable cursor sort
 - SET CSORT OFF will disable cursor sort







Other miscellaneous changes to panels

- 11 new columns on JES2 **SP** panel
 - Related to JES2 spool migration
- JOBRC column on JC display
 - Corresponds to new JES2 parameter
- **Max-RC** (O, H, I, ST) colums now can display:
 - CONV ERR if the converter failed
 - SYS FAIL if the job ended due to an IPL
- **ES** and **ESH** actions on DA, I, and ST panels
 - Correspond to new JES2 **\$EJ,STEP** and **\$EJ,STEP,HOLD** commands
- W action on JDS panel
 - Corresponds to new **\$TJ,SPIN,DDNAME=** parameter
 - New W (spinnable) column indicates whether the DD can be spun
 - Available when JDS is entered from DA, I, or ST panel







Other miscellaneous changes

- Spool dataset allocations can now use XTIOT
 - Number of concurrent allocations no longer restricted by TIOT
 - Partially addressed by allocation "window" added by PK96840
 - PK96840 did not address "SA" action in REXX
 - PK96840 did not address virtual storage utilization
 - Specify in **DEVSUP***xx* member:
 - NON_VSAM_XTIOT=YES
 - If specified, SDSF will automatically allocate using XTIOT







Summary

- Eliminate requirement for MQ Series to obtain sysplex data
- OPERLOG color
- OPERLOG Rexx support
- EAV (large data set) support
- JES2/JES3 equivalence
- Cursor sort
- Miscellaneous changes



