



CA SYSVIEW r13.5 Update

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Abstract



CA SYSVIEW is a mainframe system and performance monitor. This session will cover what is new with release 13.5, such as a new SYSVIEW for DB2 component, more offloading to zIIP engines, installation improvements, and more granular control over metric data collection and exception processing. The speaker will also introduce enhancements to the integrations between CA SYSVIEW and CA APM, CA OPS/MVS, CA MAT, and CA Insight for DB2. Finally, the speaker will share some best practices learned from experience with customers.





Agenda

- CA SYSVIEW Overview
- CA SYSVIEW r13.5 Updates
- Integration with other solutions
- Recommendations and other goodies



CA SYSVIEW Overview



CA SYSVIEW is a real-time and historical mainframe system monitor.

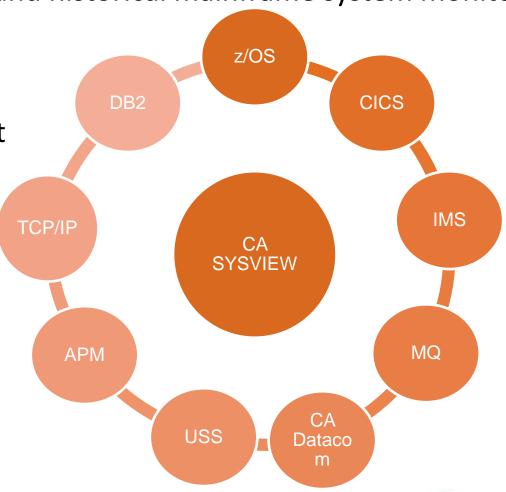
 Multiple optional interface options to meet your needs

 Traditional 3270 "green screen" VTAM, ISPF, TSO, CICS or CA Roscoe.

Graphical Management Interface (GMI)

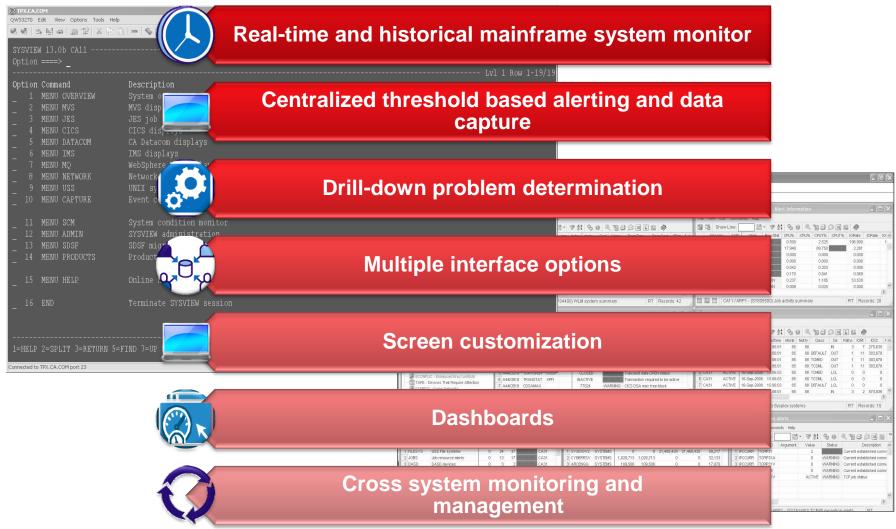
Windows client

Browser based



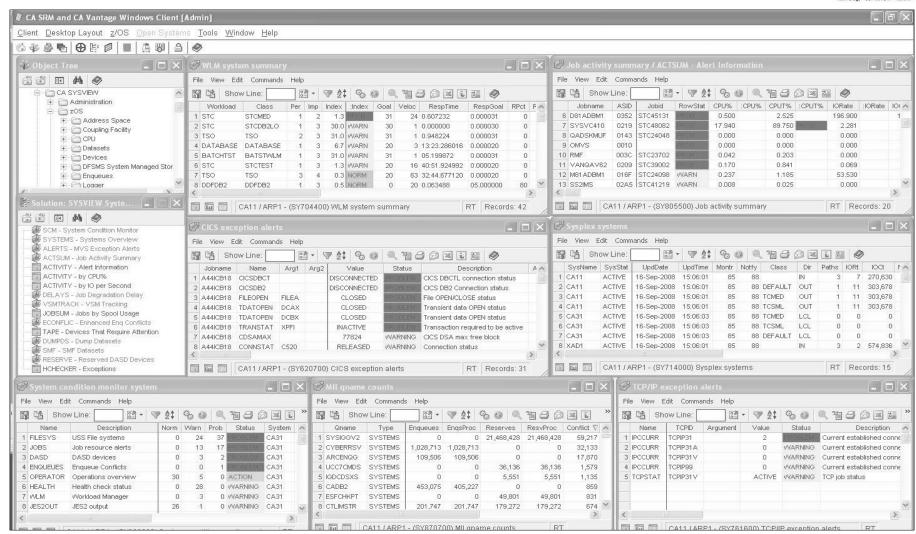
CA SYSVIEW key features





GMI interface









CA SYSVIEW r13.5 Updates

- ➤ Installation, Configuration, and Maintenance
- More zIIP Exploitation
- > Threshold and Alert Updates
- Security
- (Where to find more)



Installation, Configuration, and Maintenance



- New PARMLIB member replaces GEN assembly/link process. (GSVXssid, default GSVXGSVX)
- Dynamic install process is now standard
- SYSVIEW LOAD library now must be a PDS/E
 - WARNING: Must currently copy modules that need to be in LPA to a PDS or use dynamic LPA services!
- Next Generation Mainframe Management:
 - Part of the CA Mainframe Stack
 - Supports downloading, installation, deployment, and configuration with CA Mainframe Software Manager
 - CA RS, HOLDDATA, FIXCAT, etc.
 - (See SHARE session 11846 for more info)



New SYSVIEW PARMLIB member



Menu Utilities	Compilers Hel	lp		
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****	******	Top of Data	****	
*				*
svc	212			======±*
JES-Name	JES			
SAF	USER			
SECEXIT-AUTH	NO			
SECEXIT-PASSJCT	NO			
SECEXIT-QUAL SECEXIT-SYSTEM	YES YES			

More zIIP Exploitation



- Release 13.5 adds zIIP enablement of tasks in the SYSVUSER address space (CA SYSVIEW User Address Space)
 - Completes the zIIP effort; all CA SYSVIEW processes (that make sense) are now eligible to run on a zIIP specialty engine.
- Activation: Requires zIIP enablement services in CA Common Services
 - CCS for z/OS r11SP8 FMID CS91000+PTF RO27636 (EOS soon!)
 - CCS for z/OS r12 FMID CAS9C00+PTF RO27110
 - CCS for z/OS r14 (and higher) (included in base)
- Monitoring:
 - ASADMIN screen shows all TCB's and is the cornerstone of knowing how well SYSVIEW is taking advantage of ZIIP processors.
 - The SYSVIEW zIIP Dashboard comes out of the box and shows all relevant ZIIP performance information.

CA SYSVIEW Exploits zIIP specialty engines!



zIIP example – ASADMIN screen



SHARE

SYSVIEW ISE	F1 CA31					ITARA	MIN Addr	ess Space	Administ	ration -						Technology - Conn	ections - Re	esults
Command ===						AUADI	iin, Addi	obb opace	Admirition	Lacion						Scroll *		
													Lv	1 2 Row				
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Cmd	Jobname	Tagk	Id	Status	CpuTime	Pot%	CPTime	EnclTime	ePct%	zTTDTime	zIIPonCP	zPct%	zswitch	zStart z	Agro	TaskTime	а Фил	n Joh
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		MAIN	MAIN		0.491649		0.491649									33:18:30		
	- :	AMS	AMS		0.192314			0.000011	0.01%	0.000011		0.01%	1	1		33:18:30		
		APPLMON		INACTIVE														
		AUDIT	AUDIT	ACTIVE	6.275589	0.21%	5.580530	0.695059	11.08%	0.640665	0.054393	10.21%	167653			33:18:33		
		CICSLOGR		MODEL														
		CICSLOGR	CICSLOGR	ACTIVE	1.124275	0.04%	1.019872	0.104403	9.29%	0.081481	0.022922	7.25%	21925	1		33:18:2	1.	
		DATALIB	DATALIB	ACTIVE	0.483078	0.02%	0.479356	0.003721	0.77%	0.003426	0.000295	0.71%	219	1		33:18:3	5.	
		IMSCQS		INACTIVE														
		IMSDATA		INACTIVE														
		IMSLOGR		MODEL														
		IMSSPOC	IMSSPOC		0.198325	0.01%	0.198316	0.000008		0.000008		<0.01%	1	1		33:18:2		
		JOBS	JOBS	ACTIVE	00:29:30			00:17:57			53.72296	57.81%	1611237			33:18:2		
			MOSDATA		00:02:52						7.282210		1233917	12		33:18:2		
		MVSDATA	MVSDATA	ACTIVE	00:04:55						10.07775		280231	2		33:18:2		
			SCHEDULR		3.353679						0.269210		25701	2		33:18:30		
		SMFDATA	SMFDATA		1.365551			0.096629			0.007959	6.49%	12189			33:18:2		
			TCPDATA		37.12291			2.534483			0.530392	5.40%	83559	2		33:18:2		
		UTIL	UTIL	ACTIVE	0.319165			0.000192		0.000192		0.06%	17	1		33:18:30		
		XSMS	XSMS		5.155215						0.114324		93497	2		33:18:2		
	SYSVUSER			ACTIVE					29.98%	00:12:59	00:02:28	25.16%				41:34:03		
		MAIN	MAIN		0.259438		0.259438									41:34:03		
			CAPTURE		0.721833						0.007977		2101	1		41:34:03		
		CICS	CICS		0.163186			0.000041	0.03%	0.000041		0.03%		1		41:34:03		
		HCHECK	HCHECK		0.186851		0.186851									41:34:03		
		VTAM	VTAM		13.33094			0.700368			0.068827		117887	1		41:34:03		
		XSDS	XSDS		5.977867						0.243191		112811	2		41:34:03		
		XSSS	XSSS		49.93632			2.741955			0.353224		229917	2		41:34:03		
		XSXS	XSXS		4.850770						0.150453		112989	2		41:34:03		
******	****	*****	*****	******	*****	****	*****	End of Dat	a www.ww	*****	*****	********			****	****	1444	4444



zIIP example – ZIIP SYSVIEW Dashboard







more zIIP - SMFRPT



```
SYSVIEW 13.5 CA31 --
                                                                  SMFRPT, SMF Record Report
LogStream SYSVDEV.AUDIT.ADTT.CA31
                                     BlockID 000000000392995D/0
CA SYSVIEW Audit
Type
        Subtype
                    SSID Date/Time
255 xFF 1 x0001
                    GSVX 2011/09/28 15:00:58
Audit Event: Session Logoff
Section: Common Overview
System
           : CA31
                               Date/Time
                                           : 2011/09/28 15:00:58
SSID
           : SYSV
                               Task
Release
          : 13.5
                               Userid
                                          : GSVVCAPI
Build
                               User Name
                                           : TODD GAGLE
Jobname
          : SYSVSEC
                               Interface : CAPTURE
JobId
           : STC62897
                               Terminal
                               Profile
ASID
           : 025B
                                           : GSVVPROF
                               SecGroup
                                          : DEFAULT
Section: Event Data
Description
                                 Value
Elapsed time of session
                                 39.07113
CPU time used by session
                                 18.27614
Storage used below 16M HWM
                                 38337
Storage used above 16M HWM
                                 7.58M
Section: zIIP Utilization
Total CPU time
                                         18.27614
                                         2.518287
TCB CPU time
SRB CPU time
                                         15.75785
Enclave time
                                         15.75796
                                                   86.22%
 zIIP time
                                         14.56723
                                                  79.71%
 zIIP on CP time
                                         1.190733
                                                   7.56%
 zIIP switches
                                             5227
 zIIP ALESERV requests
                                               44
 zIIP SRB starts
Section: Command Execution
Command SubCmd
                 Count Pct%
                              CPUTime EnclTime
                                                 ePct%
                                                        zSwitch
                                                                 Comp
ACTIVITY
                     1 2%
                             0.020352 0.012660
                                                62.21%
                                                            158
                                                                 TOOLKIT
ACTSUM
                         4% 0.424965 0.424372 99.86%
```



Threshold and Alerts – Exception Priority



- Exception definitions have been enhanced to include a new attribute:
 - Exception Priority
- A Priority from 0-999 can be assigned to a threshold or state definition.
- The priority can be used on the various ALERT screens to sort exceptions within a like status, such as PROBLEM.
 User's can use priority to easily see which problem is more important.
- The value of Priority has no internal programmatic use. It's there for the user to assign values and sort on it.



Threshold and Alerts – Time of day & day of week



- Exception definitions have been enhanced to include new attributes:
 - Start Time
 - End Time
 - Day of the Week
- The "Time" attributes allows for the ability to create multiple exception definitions whose time range can vary during the day. For example, rules for metrics can vary based on whether the stock market is open or closed, in the financial services industry.
- The "day of week" attribute allows you to make exception processing active only on certain days of the week. If a threshold or state definition is set up for Saturday and Sunday only, then the definition will be inactive during weekdays.



Threshold and alerts – Acknowledgement



- Exception definitions have been enhanced to include a new attribute:
 - Acknowledgement
- When a threshold or state is breached, a SYSVIEW user can now acknowledge the alert. Other SYSVIEW users can now see that an alert is being worked on.
- The METRIC command is used to set attributes of a current alert.
 The alert can be globally acknowledged or the acknowledgement can be cleared.
- The alert will stay acknowledged until the acknowledgement is cleared or the alert is triggered again.
- The following line commands are used on the various ALERT screens to invoke the METRIC command to acknowledge or clear an acknowledged alert:

ACK

CLR



Threshold and Alerts – THRESH MVS definitions



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	?Add	=	=	0	4		AUTO	000		STATUS	NO			YES		
	CPU%	CP		100	95	95	UPPER	0	2	CHANGE	NO	106	YES	YES	YES	NO
	DEVBUSY%	=		75.00	75	56.25	UPPER	0	2	CHANGE	NO		YES	YES	YES	NO
	JESSMFP			90	75	68	UPPER	0	2	CHANGE	NO		YES	YES	YES	NO
	JESSTGP			90	75	68	UPPER	0	2	CHANGE	NO		YES	YES	YES	NO
	JOBCPU%	=	=	23.00	75	17.25	UPPER	0	2	CHANGE	NO	1	YES	YES	YES	YES
	JOBCPUT%	=	=	100.0	75	75.00	UPPER	0	2	CHANGE	NO	561	YES	YES	YES	NO
	JOBCSA	=	=	102400	75	76800	UPPER	0	2	CHANGE	NO	288	YES	YES	YES	NO
	JOBECSA	=	=	10485760	75	7864320	UPPER	0	2	CHANGE	NO	39	YES	YES	YES	NO
	JOBRSTG	=	=	200M	75	150M	UPPER	0	2	CHANGE	NO	33668	YES	YES	YES	NO
	PAGSLOT%			50	75	38	UPPER	0	2	CHANGE	NO		YES	YES	YES	NO
	STGCSA%			90	75	68	UPPER	0	2	CHANGE	NO		YES	YES	YES	NO
					75		UPPER	0		CHANGE	NO			YES		

Threshold and Alerts – THRESH MVS definitions



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	CPU%	CP		100	95	95	ACTIVE	SUN	MON	OÚ)D	(Naju	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	CPU usage percentage
	DEVBUSY%	=		75.00	75	56.25	ACTIVE	SUN	MON	TÜE	Web.	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	Device busy percent
	JESSMFP			90	75	68	ACTIVE	SUN	MON	TÜD	Web.	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	SMF buffers percent
	JESSTGP			90	75	68	ACTIVE	SUN	MON	TÜE	Wiele	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	Spool track groups percen
	JOBCPU%	=	=	23.00	75	17.25	ACTIVE	SUN	MON	TÜE	Web	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	CPU usage percentage
	JOBCPUT%	=	=	100.0	75	75.00	ACTIVE	SUN	MON	njûja	(I) D	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	CPU usage percentage tot:
	JOBCSA	=	=	102400	75	76800	ACTIVE	SUN	MON	TÜD	Wield	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	CSA storage allocated
	JOBECSA	=	=	10485760	75	7864320	ACTIVE	SUN	MON	TÜE	Web	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	E-CSA storage allocated
	JOBRSTG	=	=	200M	75	150M	ACTIVE	SUN	MON	TÜE	Web	THU	FRI	SAT	00:00:00	23:59:59	24:00:00	SMTWTFS	Real storage
	PAGSLOT%			50	75	38	ACTIVE												Page dataset slots pct us
	STGCSA%			90	75	68	ACTIVE												CSA storage allocated po-
				90	75		ACTIVE												E-CSA storage allocated ;

Threshold and Alerts: ALERTS MVS exception alerts



SYSVIEW 13.5	% 🔓 👸 🚥 🗞 CA31				ALERTS	, MVS Exception Alerts			2		
Command ====	_									Scroll *	> PA
	JLT ACK JIM NOACK							FAT	4 Row 1-4	1/61 Col :	1-158/3
Status MASKI											
Cmd Name	Resource Alias		Status			Description		Average	Median	StdDev	Chang
JOBRSTG	CHORJBOC 017E CHRR3JBO 0167	1.8G 1.86G	PRCBLEM PRCBLEM	10 10	UPPER UPPER	Real storage	1.8G 1.86G	1.8G 1.86G	1.8G 1.86G	11026 591K	989 967
	CHRR3JBO 0167 CHRT3JBO 0187	1.86G 1.91G		10	UPPER		1.86G	1.86G 1.91G	1.86G 1.91G	5.82M	3.11
	CHRY3JBO 0160	1.7G	PROBLEM	10	UPPER		1.7G	1.7G	1.7G	15883	3706
 NDDT.9MNM	SYSVDEVA	INACTIVE	PROBLEM	0	STATE	· VTAM applid status	1.76	1.76	1.76		3700
CPUPARK	SIBVEEVA	INACTIVE 3	PROBLEM	0	UPPER	CPUs parked					
DEVBUSY%	DBCA16 2E1A	44.76	PROBLEM	Ö	UPPER	Device busy percent	44.76	20.48	26.96	14.74	24.2
	MVZ16A E202	25.05	PROBLEM	Ö	UPPER	·	25.05	12.68	0	18.11	12.3
IFAONLIN		0	PRCBLEM	Ö	LOWER	IFA processors online	0	0		0	
IIPPARK			PROBLEM	Ö	UPPER	zIIP processors parked					
JOBEPVTF	A31ITPX1 00E6	69632	PRCBLEM	0	LOWER	E-Private storage user unallocated	69632	69632	69632		
	A31ITPX2 00E5	69632	PRCBLEM	0	LOWER		69632	69632	69632		
JOBESQA	*MASTER* 0001	7.38M	PRCBLEM	0	UPPER	E-SQA storage allocated	7.38M	7.38M	7.38M	54	
JOBIOR	CHORJBOH 016D	1771	PRCBLEM	0	UPPER	I/Os per seconds	1769	2111	1779		342.
	CHRR3JBO 0167	1446	PRCBLEM	0	UPPER		1445	1473	1454	133.9	
	VANQAVC5 0162	1652	PRCBLEM	0	UPPER			165.3		760.8	186
	VANQAVC6 016E	1703	PRCBLEM	0	UPPER		2133	155.8		757.6	197
	CHORJBOH 016D	2.05G	PRCBLEM	0	UPPER	Real storage	2.05G	2.04G	2.04G	885K	1.22
SYSIOR		5509	PRCBLEM	0	UPPER	Total I/Os per second	5429	1557	2019	1269	387
JOBRSTG	MF2T3SRV 010C	598M	WARNING	10	UPPER	Real storage	598M	598M	598M	1664	81
	VANAMY01 016F	608M	WARNING	10	UPPER		608M	608M	608M		
— :	VANQAVC5 0162	660M	WARNING	10	UPPER	American Services	665M	671M	671M	3.53M	6.11
APPLSTAT	A311CCS4	INACTJOB	WARNING	0	STATE	VTAM applid status					
CPSPARK CPUSTAT		OFFLINE	WARNING WARNING	0	UPPER	CP processors parked					
CPUSTAT	000A 000B	OFFLINE	WARNING	0	STATE	CPU processor status					
DEVBUSY%		20.35	WARNING	0	UPPER	. Device busy percent	20.35	7.330	0.075	9.891	13.0
JOBCSA	*MASTER* 0001	253K	WARNING	0	UPPER	CSA storage allocated	253K	253K	253K		13.0
OODCDA	SVD11CR1 0053	140K	WARNING	0	UPPER	CDA Stolage allocated	140K	140K	140K		
	TSS 0020	298K	WARNING	0	UPPER		298K	298K	298K		
JOBECSA		11.1M	WARNING	ō	UPPER	E-CSA storage allocated	11.1M	11.1M	11.1M	1571	178
	TCPIP31V 0108	2.2M	WARNING	0	LOWER	E-Private storage user unallocated	2.2M	2.2M	2.2M		
JOBSTAT	NOTFOUND	INACTIVE	WARNING	0	STATE	Job required to be active					
	ROBJA07	INACTIVE	WARNING	0	STATE						
NODESTAT	USILDAVL	UNCONNECTED	WARNING	0	STATE	JES2 node connection status					
	USILDAVM	UNCONNECTED	WARNING	0	STATE						
APPLSTAT		NOLOGON	HIGH	0	STATE	VTAM applid status					
CHANSTAT		NOTOWNED	HIGH	0	STATE	Channel status					
	EC	NOTOWNED	HIGH	0	STATE						
	ED	NOTOWNED	HIGH	0	STATE						
	EE	NOTOWNED	HIGH	0	STATE						
d to usildama.ca.com r	. 1022							2/16	NUM	12:02:29 IBN	

Security Improvements



- Passphrase support for logons
- External Security Enhancements
 - SAF exits SAFSECX and JSPLSECX are no longer supported. Instead, all SAF calls are made available internally to the SYSVIEW product. Three reasons for this change:
 - User code can't be called if ZIIP enabled.
 - 2. Customers no longer have to assemble and link user modules.
 - 3. Security parameters are moved out of Gen module into security section.
 - SAF entity checking is now enabled in the External Security Section of the user's internal security group, or in the GLOBAL group.
 - Customers now have the ability to run external security for a specific user security group, where before it was all or nothing.
 - Pre SAF exit still available which also passes Entity & class name along with access intent. The exit can modify entity and class name.



Other CA SYSVIEW r13.5 Updates



- User abend codes consolidated to U2999rsn (2999 default)
- WTO changes (MLWTO if more than 126 chars)
- VSCR (more stuff above 2G bar)
- Support for logon security password phrases
- New data collection event for IMS buffer pools
- New IMS transaction history records for Non-Recoverable and Synchronous OTMA transactions
- New IMS data collections threshold metrics
- New TCP/IP commands for Enterprise Extender
- Checksum offload and Segmentation offload support for IPv4 and IPv6 added to IPCONFIG
- DVIPA data added to IPCONFIG
- IPSTATS command add information on AIQ and TCP send stalls
- New MQ channel authentications display

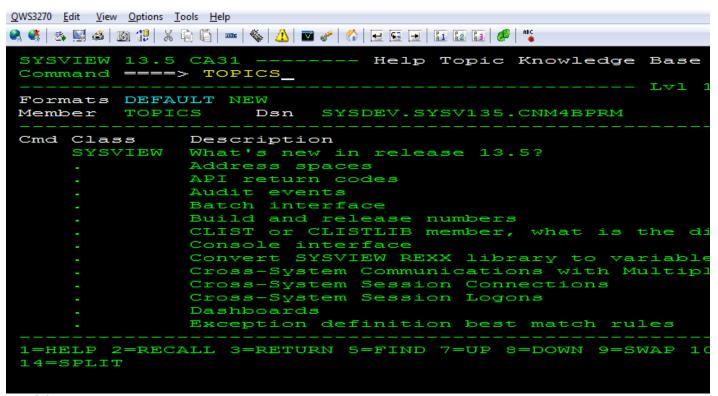
- Support for 8-character job classes
- New JCGROUPS and JTRANQUE commands
- JES3 support added to many commands
- New commands for CICS connections and CICS profiles
- Support for deletion of a CICS dump on CDUMPMGT command
- Finer control over transaction logging on the CTRANOPT command
- Support for CICS perfromance data metrics on CWAITS, the SYSVIEW CICS degradation analysis command
- New DATACOM commands for MUF sysout, locks and buffer pool contents
- (See TOPICS command for complete list)



Where to find more information about CA SYSVIEW r13.5 updates



- The TOPICS command in CA SYSVIEW!
- Select the top item 'What's new in release 13.5?'







Integration with other solutions

- CA Insight for DB2
 - CA SYSVIEW DB2 component (New in 13.5)
- CA APM and CA Cross-Enterprise APM
 - IMS tracing from MQ trigger and bridge driven transactions (New in 13.5)
- CA Mainframe Application Tuner
- CA OPS/MVS



CA SYSVIEW DB2 component



A new DB2 component has been added to allow for SYSVIEW users to monitor DB2 subsystems. This new feature is provided by integration with CA Insight for DB2.

- CA Insight for DB2 must be licensed and installed.
- XNET provides bridge between Insight and SYSVIEW
 - XNET must be installed and configured (IP)
 - XNET serves up the data and SYSVIEW displays it
- New SYSVIEW DB2 menu and eleven new DB2 commands.
- DB2LIST command has been enhanced:
 - Displays all DB2 subsystems that the agent Insight is monitoring
 - New data fields including connection status.
 - New line commands, including commands to START and STOP DB2 subsystems.





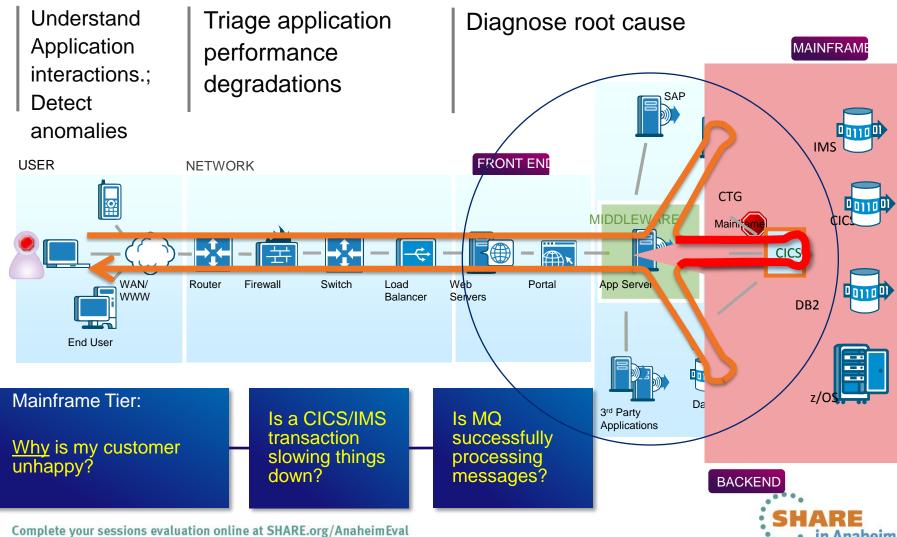
DB2 SYSVIEW - New DB2 Commands

Command			Scroll	12 12:27:16 *==> CSR 601 1-79/110
Cmd	Command SubCmd DBBPools DBDSets DBERrmsg DBLOGA1 DBLOGCkp DBPRMBp DBPRMGbp DBPRMS DBSQLDy DBSTG	Description DB2 buffer pools DB2 open datasets DB2 Error message DB2 log allocation DB2 log checkpoint DB2 buffer pool parms DB2 group buffer pool parms DB2 system parameters DB2 SQL dynamic cache DB2 storage utilization stats	Feature DB2	Type Count PRI
 1=HELP	DBTHAct DB2 DB2List	DB2 active threads Set target DB2 subsystem DB2 subsystem list ******* End of Data ********* ============================	DB2 DB2 DB2 ******	PRI FUNC PRI





CA Cross-Enterprise APM: root-cause analysis deep-dive inspection; see inside the application across platforms



CA SYSVIEW and CA APM Integration – CA Cross-Enterprise APM



- Real-time performance metrics from SYSVIEW made available in CA APM
- Utilizes the existing SYSVIEW installation you have on each LPAR
- Provides metrics for z/OS, CICS, IMS, MQ, Datacom, DB2¹ and enhanced Network² Metrics
- Out of the Box system metric dashboards provided





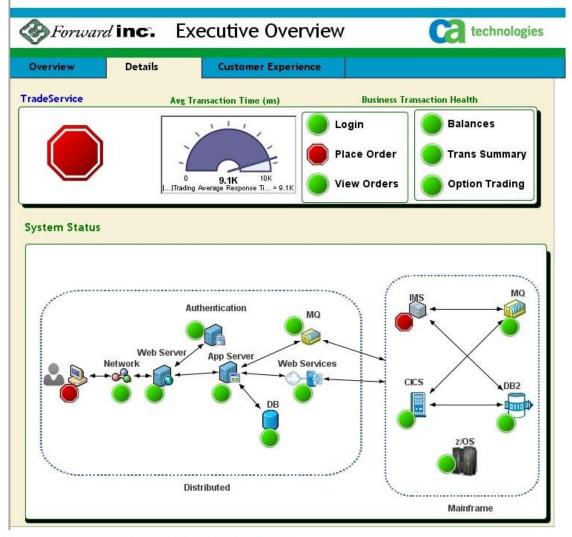
¹ Real-time DB2 metrics require CA Insight for DB2 data collectors

² Enhanced Network metrics require CA NetMaster data collectors

CA Cross-Enterprise APM

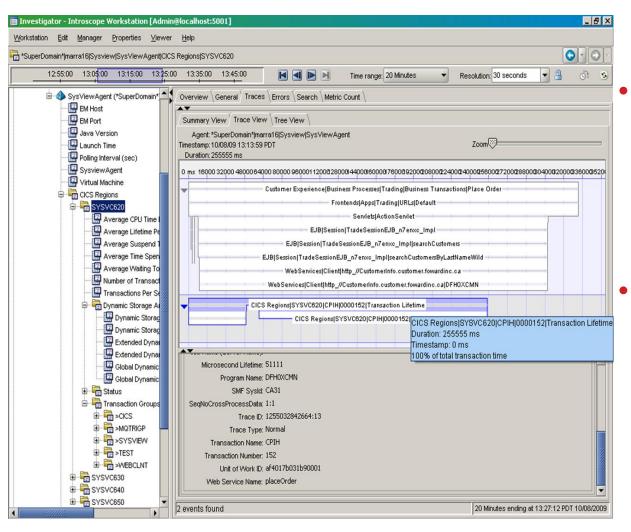
Customized Application Dashboards





CA Cross-Enterprise APM





- Real user transaction tracing across all platforms including the mainframe
- Cross-Process
 Tracing
 - MQ, CTG, Web Services into CICS
 - MQ into IMS



Integration with CA Mainframe Application Tuner



- CA SYSVIEW provides a line command to launch a measurement/sampling request on the following command displays:
 - ACTIVITY
 - CTASKS
 - IMSREGNS







Integration with CA OPS/MVS

```
usildama.ca.com
QWS3270 Edit View Options Tools Help
                                   Edit Definition
 SYSVIEW 13.5 CA31
 +-Update fields and press the F3 key to save. Enter "?" in field for h
   Variable
             Resource
                        RsceAttr
   JOBCPU%
   Attributes
                                                Actions
   Rule Type
                                                WTO Message
                        UPPER
                                                                  YES
   Problem Limit
                        23.00
                                                Log Exception
                                                                  YES
   Warning Limit
                        17.25
                                                SMF Record
                                                                  YES
   Warning Pct
                                                Notify OPS/MVS
                        75
                                                                  YES
   Duration
                                                SNMP Trap
                                                                  YES
                        CHANGE
   Trigger Level
                                                Trap Group List
                                                                  NSMTEST
   Exception Priority
                                                Run IMOD
                                                                  ИО
   Disabled
                        ИО
                                                IMOD Name
                                                                  NONE
                                                Capture Level
                                                Capture Event
                                                Capture Interval 00:15:00
   Sun
        Mon
             Tue
                   Wed
                        Thu
                              Pri
                                   Sat
       MON
             TUE
                        THU
                            FRI
                                   SAT
   sun
                   WED
   Begin Time
                        00:00:00
   End Time
                        23:59:59
 +- F1 Help F3 Save F12 Cancel
```

'Notify OPS/MVS' drives OPS Generic Event API. Eliminates parsing and provides for more reliable and maintainable alert automation.





Recommendations and other goodies

- Set (and maintain) Thresholds
- Run with the biggest terminal possible
- Try Dashboards!
- Review SMF record processing
 - Check to see if you are writing data to both LOGSTREAM and SYS1.MANx (do you really need both?)





Set and Maintain Thresholds

- Iterative
 - ALERTS, CALERTS, etc.
 - Evaluate breaches and modify thresholds accordingly (THRESH, CTHRESH, etc.)
 - PLOT command against the variable (e.g. JOBCPU%)
 - Continuous and iterative process
- Review Logs and SMF data
 - SMF 110.2 CICS statistics records (DFHSTUP)
 - Contains historical information such as DSA Free percentages, transaction rates, MAXTASK reach count, SOS counts, etc.



Run with a big terminal



- Why a big terminal?
 - More real-estate
 - More data
 - Allows for better visual correlation of information
- Biggest your physical monitor will accommodate (21" widescreen should easily accommodate 56x160 or more)



Run with a big terminal (cont.)



- May need to experiment especially with fonts and the number of ROWS
- Dynamic LOGMODE
 - Allows application to determine rows and columns
 - Most terminal emulators (Pcomm, QWS3270, Extra!, etc.) support this.
 - D4C32XX0 is the default dynamic logmode. Check 'SYS1.SAMPLIB(ISTINCLM)' for the sample source for the ISTINCLM load module.





Run with a big terminal (cont.)

- Related SYSVIEW commands
 - USERS (shows geometry and LOGMODE for each user)
 - SET SCREENSIZE ALTERNATE | PRIMARY | TOGGLE
 - Recommend assigning SET SCREENSIZE TOGGLE to a PF Key
- Where to find more information:
 - Search SHARE archives BIT Bucket session
 - Google LOGMODE(DYNAMIC)
 - http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/TD102151
 - z/OS 1.12 Communications Server SNA Resource Definition Reference



Dashboards



- Can combine multiple SYSVIEW commands into user defined windows and panes
- Allows for quick visual correlation of data
- Can choose whatever subset of columns desired
- Very easy and quick to accomplish samples available
- Following USS dashboard example created in about a day (and it was my first time):





Summary

CA SYSVIEW

- Provides comprehensive monitoring and alerting capabilities on mainframe systems.
- Provides multiple optional interface choices.
- Exploits zIIP specialty engines to minimize cost.
- Release 13.5 streamlines the installation experience and embraces Next Generation Mainframe Management
- Now seamlessly integrates with CA Insight for DB2 to provide DB2 data within the same interface
- Exposes the deep mainframe visibility to the enterprise through its integration with CA Cross-Enterprise Application Performance Management



THANK YOU!



- Please fill out your session evaluation!
 - Session number is 11544
 - Your vote counts!
- http://support.ca.com
- Gregory.Shriver@ca.com







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