CA SYSVIEW Performance Management 16.0
CA RS 2104 Service List

Service	Description	Type
LU00395	SET COMMANDS SEND CMD TO SAME REMOTE JOB	PTF
LU00409	SOME CICS METRICS SENT TO MOI EVEN IF NOTSD SPECIFIED	PTF
LU00417	IMSOMAT IMS$011E SELECTED ENTRY NOT AVAILABLE	PTF
LU00517	VARIOUS REST API PROBLEMS	PTF
LU00527	ABEND S0C4 GSVXJBSR ISSUING COMMAND	PTF
LU00548	CPU AND STORAGE MONITORING ENHANCEMENTS	PTF
LU00552	CICS THRESHOLD TRIGGERS WITH *OVERFLW W/SO09589	** PRP **
LU00595	CICS CONNECTION/DUMP/PURGE MONITORING ENHANCEMENTS	PTF
LU00630	SUPPORT FOR THE IBM FUNCTION REGISTRY FOR Z/OS	PTF
LU00704	PRISM SUMMARY LINES NOT SHOWING FOR LPARS WITH ONE CPU TYPE	PTF
LU00742	ABEND S0C9-09 IN PRISM COMMAND W/LU00548	** PRP **
LU00763	ABEND S0C4 ISSUING CICS CMODS COMMAND	PTF

The CA RS 2104 service count for this release is 12

FMID	Service	Description	Type
CNM4G00	LU00395	SET COMMANDS SEND CMD TO SAME REMOTE JOB	PTF
	LU00409	SOME CICS METRICS SENT TO MOI EVEN IF NOTSD SPECIFIED	PTF
	LU00417	IMSOMAT IMS$011E SELECTED ENTRY NOT AVAILABLE	PTF
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The CA RS 2104 service count for this FMID is 12

Service	Details
LU00395	LU00395 M.C.S. ENTRIES = ++PTF (LU00395) SET COMMANDS SEND CMD TO SAME REMOTE JOB PROBLEM DESCRIPTION: There are several function commands within SYSVIEW that allow you to take action and alter resource values in certain subsystems. These commands normally end in the suffix SET. Just like other commands, some of these SET commands can be issued cross-system. A subset of the SET commands can have erroneous behavior when they are issued cross-system. This problem only impacts environments where there exists more than one instance of SYSVIEW running on the same system. The expected behavior is that when there is more than one instance of SYSVIEW on the same system, the command issued cross-system should be propogated to each SYSVIEW instance on the system. This is currently not happening for a subset of the SET commands. Instead, if there are multiple instances of SYSVIEW on the same system, the SET command will be issued to the same instance of SYSVIEW for the number of SYSVIEW instances on that system. For example, say we have two systems: SYS1 and SYS2. SYS1 has 1 instance of SYSVIEW running and SYS2 has 2 instances: SYS1: SYSVIEW1 SYS2: SYSVIEW2 SYSVIEW3 Let's say an affected SET command is issued from SYS1 cross-system to SYS2. The expected behavior is that the SET command will get issued to SYSVIEW2 and SYSVIEW3 on SYS2. However, currently, the command will get issued to SYSVIEW2 on SYS2 twice. The SYSVIEW instance that is picked is based on a best-match criteria including SYSVIEW version and build levels. This fix will correct the cross-system behavior in the following SET commands: SYSVIEW 15.0 - IDMSSET, JVMSET SYSVIEW 16.0 - IDMSSET, JVMSET, ZCNSET, ZDMSET SYMPTOMS: Affected SET commands issued cross-system do not get propogated to all SYSVIEW instances on the remote system. Affected SET commands issued cross-system send the same command to the remote system multiple times. IMPACT: Affected SET commands issued cross-system do not execute on all of the expected instances of SYSVIEW. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 12986 Copyright (C) 2021 CA. All rights reserved. R00174-NM4160-SP0 DESC(SET COMMANDS SEND CMD TO SAME REMOTE JOB). ++VER (Z038) FMID (CNM4G00) PRE (SO10316 SO10588 SO11865 SO14533 SO14761 SO16018

Service	Details
	SO16108)
	SUP (LT00395)

Service	Details
LU00409	LU00409 M.C.S. ENTRIES = ++PTF (LU00409) SOME CICS METRICS SENT TO MOI EVEN IF NOTSD SPECIFIED PROBLEM DESCRIPTION: SYSVIEW provides the ability to control which CICS Times Series Data (TSD) metrics are sent to CA Mainframe Operational Intelligence (MOI) by specifying the TSD | NOTSD attribute for the metric in the SVWYVARS parmlib member that gets included in the CICSDATA parmlib member. However, there is a small set of CICS metrics that are always sent to MOI even if NOTSD is specified. This is being changed to always respect the TSD | NOTSD setting. SYMPTOMS: The following behavior occurred even if NOTSD was specified for one of the metrics below. If a given transaction did not run at all during the previous interval, then metric TRANUSE was always sent to MOI. If a given transaction ran at least once during the previous interval, then the following metrics were always sent to MOI: ABENDS CPUTIME LIFETIME SUSPTIME TRANUSE IMPACT: Undesired metrics may be sent to MOI. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 12999 Copyright (C) 2021 CA. All rights reserved. R00175-NM4160-SP0 DESC(SOME CICS METRICS SENT TO MOI EVEN IF NOTSD SPECIFIED). ++VER (Z038) FMID (CNM4G00) PRE (SO09059 SO09589 SO11875 SO12816 SO13538 SO14533 SO16292 SO16310) SUP (LT00409) ++HOLD (LU00409) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21061) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To implement the fix | +----------+----------+ |USERS | All users of SYSVIEW for CICS and CA MOI | |AFFECTED | | +----------+----------+ |KNOWLEDGE | Product Administration |

Service	Details
	|REQUIRED | |
	+----------+----------+
	|ACCESS | Product libraries |
	|REQUIRED | Ability to run SYSVIEW for CICS transactions |
	+----------+----------+
	**********
	* STEPS TO PERFORM *
	**********
	Apply this fix and either recycle any monitored CICS regions, or
	use the GSVT (terminate) and GSVS (start) transactions to recycle
	SYSVIEW for CICS within each CICS region.
	).

Service	Details
LU00417	LU00417 M.C.S. ENTRIES = ++PTF (LU00417) IMSOMAT IMS$011E SELECTED ENTRY NOT AVAILABLE PROBLEM DESCRIPTION: When selecting a command response (RSP) record from the IMS Operations Manager Audit Trail logstream using the IMSOMAT command, an error indicating that the selected entry is not avaialble occurs. SYMPTOMS: The following error message is issued: 'IMS$011E Selected entry not available' IMPACT: The command response data is not displayed. CIRCUMVENTION: n/a PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 12998 Copyright (C) 2021 CA. All rights reserved. R00176-NM4160-SP0 DESC(IMSOMAT IMS$011E SELECTED ENTRY NOT AVAILABLE). ++VER (Z038) FMID (CNM4G00) PRE (SO11553) SUP (LT00417)

Service	Details
LU00517	LU00517 M.C.S. ENTRIES = ++PTF (LU00517) VARIOUS REST API PROBLEMS PROBLEM DESCRIPTION: This PTF includes the following updates and fixes: 1. Reset the JES variables OWNER, PREFIX, and DEST. As REST is stateless, the environment should be reset between requests. These variables were previously not being reset. 2. Allow the CONTROL command to be executed through the API. This will allow CONTROL NOFLUSH to be issued in order for stacked commands to continue, even if one of the commands in the stack fails. 3. OPCODES - override 'Code' field data type. The Code field on the OPCODES display is a Hex field, but should be treated as character data. This will prevent trailing and middle 0's from appearing in the opcodes. 4. Fixed an issue where only 20 fields could be specified on an API request. 5. A variable in the REST server was defined in a way that left a small window where two requests coming in at the same time could recieve the same API response. This has been updated to make the REST server thread-safe. 6. Some extended store clock fields were not being stored properly. While they may be formatted correctly through the TSO or ISPF interface, the API interface may return inaccurate dates. SYMPTOMS: 1. If a user issues a command that set OWNER/PREFIX/DEST, they stay set, and subsequent API calls are affected. 2. If one command in a string of stacked commands fails, none of the other commands in the string can be executed. 3. Some opcodes on the OPCODES display have imbedded or trailing 0's. For example, A7B (AGHI) appears as A70B. 4. Cannot request more than 20 fields in a single API request. 5. There is a small chance that one API request can recieve a response that was intended for another user. 6. Some date fields are wildly incorrect (e.g. 1900-06-22 instead of 2021-03-17). IMPACT: Various minor issues when using the REST interface. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW Release 16.0 Related Problem: SYSVW 13058 Copyright (C) 2021 CA. All rights reserved. R00177-NM4160-SP0 DESC(VARIOUS REST API PROBLEMS). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 SO09059 SO09589 SO10098 SO10197 SO10316 SO10497 SO10680 SO11028 SO11632 SO11875 SO12051 SO12125 SO13989 SO14533 SO15081 SO16018) SUP (LT00517)

Service	Details
	++HOLD (LU00517) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21076) COMMENT (+----------+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To implement the fix | +----------+----------+ |USERS | All users of the SYSVIEW REST API | |AFFECTED | | +----------+----------+ |KNOWLEDGE | Product Administration | |REQUIRED | | +----------+----------+ |ACCESS | Product libraries | |REQUIRED | | +----------+----------+ ********** * STEPS TO PERFORM * ********** After applying this PTF, the Application Server run-time directories will need to be deployed to your site's run-time environment. Follow these steps to implement the change: 1. Stop the SYSVAPPS task (P SYSVAPPS). 2. Copy the SMP/E managed directories to the run-time directories by running the smpehlq.CNM4BSAM(GSVUAPSM) sample JCL. You will need to set PATHPFX to the USS directory path prefix used for installation (see comments in the JCL). 3. Start the SYSVAPPS task (S SYSVAPPS).). BINARY LINK('../SYSVIEW-app-server.jar') PARM(PATHMODE(0,7,7,5)) . BINARY LINK('../libGSVXRAPI.so') PARM(PATHMODE(0,7,7,5)) .

Service	Details
LU00527	LU00527 M.C.S. ENTRIES = ++PTF (LU00527) ABEND S0C4 GSVXJBSR ISSUING COMMAND PROBLEM DESCRIPTION: A test was performed against an address space control block (OUCB) that was no longer valid because the address space had already ended. SYMPTOMS: In the reported case the ASLIST command was issued and got S0C4-11 abend, but abend could occur in other commands also. Abend messages similar to the following may be seen: GSVX451E Abend S0C4-11 in ASLIST command GSVX472I Userid SYSSTC Terminal UNKNOWN Interface API GSVX452I SYSVIEW SRB in control at entry to abend GSVX453I Diagnostics for SRB in control at entry to abend GSVX457I Psw 078C0000 9F62E7D0 Ilc 4 Intc 11 GSVX477I Key 8 State SUP Am 31 Asc PRI GSVX458I Module GSVXNUC Addr 1EFCE000 Offset 006607D0 GSVX458I NucMod GSVXJBSR Addr 1F62E030 Offset 000007A0 GSVX450I FixLvl BASE GSVX473I Routne SUMM$$ Addr 1F62E2C8 Offset 00000508 GSVX459I Data at PSW addr 1F62E7CA GSVX460I D2058044 A0E89180 4011A714 GSVX455I General registers at entry to abend GSVX467I R0-R1 00000000_000A1FF0 00000000_1FB78FB8 GSVX467I R2-R3 00000000_1FA9D56C 00000000_1FA9D558 GSVX467I R4-R5 00000000_04907400 00000000_00D0EB00 GSVX467I R6-R7 00000000_00FC8800 00000000_00FC70A0 GSVX467I R8-R9 00000000_1FA9D558 00000000_1FB6CD60 GSVX467I R10-R11 00000000_1F62FDA0 00000000_1FABF000 GSVX467I R12-R13 00000000_1F62E2C8 00000000_1FAC9358 GSVX467I R14-R15 00000000_9F62E79C 00000000_00000000 GSVX475I Access registers at entry to abend GSVX461I AR0-AR3 00000000 00000000 00000000 00000000 GSVX461I AR4-AR7 00000000 00000000 00000000 00000000 GSVX461I AR8-AR11 00000000 00000000 00000000 00000000 GSVX461I AR12-AR15 00000000 00000000 00000000 00000000 IMPACT: ASLIST command abends and produces a dump. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13068 Copyright (C) 2021 CA. All rights reserved. R00178-NM4160-SP0 DESC(ABEND S0C4 GSVXJBSR ISSUING COMMAND). ++VER (Z038) FMID (CNM4G00) PRE (LU00395 LU00548 SO08895 SO09059 SO09589 SO10098 SO10197 SO10316 SO10588 SO10680 SO11642 SO11865 SO11875 SO12816 SO12880 SO13072 SO13240 SO13538 SO14533 SO14746 SO14761 SO15081 SO15210 SO15474

Service	Details
	SO16018 SO16108 SO16292)
	SUP (LT00527 SO13485 SO15325 ST13485 ST15325)

Service	Details
LU00548	LU00548 M.C.S. ENTRIES = ++PTF (LU00548) CPU AND STORAGE MONITORING ENHANCEMENTS ENHANCEMENT DESCRIPTION: This feature PTF enhances CA SYSVIEW's CPU and Storage monitoring with the addition of new MVS data collection metrics and enhanced displays. In addition, there are general MVS enhancements such as virtual storage browsing enhancements, processor hardware listing, and Pause Element allocation usage. This feature PTF contains the following enhancements and changes: 1. New real storage MVS data collection metrics. The following real storage MVS data collection metrics were added: Metric Description -------- ------------------------------ STGRUSE% Real storage used pct STGRUSED Real storage used STGRFRE% Real storage free pct STGRFREE Real storage free STGRCSA CSA in real storage STGRLPA PLPA/MLPA in real storage STGRLSQA LSQA in real storage STGRSQA SQA in real storage The VARMVS parmlib member was updated with the new metrics. 2. New REALSTG dashboard member. A REALSTG dashboard member was added to display an overview of real storage usage on the system. The dashboard is found on the DASHBOARD command or by issuing DASHBOARD REALSTG. 3. New CPU usage MVS data collection metrics. The following CPU usage MVS data collection metrics were added: Metric Description -------- ------------------------------ CPU%RSHR CPU - Relative share pct CPUPWT CPU - Current processor weight The VARMVS parmlib member was updated with the new metrics. 4. New and updated fields on the PRISM command. The following fields were added to the PRISM command to show processor busy relative to the defined processor weights of other LPARs in the central processing complex: Field Description ---------- ------------------------------------ RShr% Processor relative share percent RShr-Graph Processor relative share percent graph RShrStat Processor relative share busy status The following fields were updated on the PRISM command to show valid values in the processor summary data rows when the processor type is CP, IFA, IIP, ICF, IFL, or UNK. Field Description ---------- ------------------------------------ PWt Processing weight CrW Current weight MnW Minimum processing weight MxW Maximum processing weight PmaWt Pricing management adjustment weight PolarWt Polarization weight

Service	Details
	5. New CPU data collection help topic. A help topic named "CPU%, CPU%LPAR, CPU%RSHR, what is the difference" was added to the TOPICS command. The topic describes the different techniques CA SYSVIEW uses to collect and display CPU busy statistics. 6. New PROCINFO command. A PROCINFO command was added to display processor information from IBM Large System Performance Reference (LSPR). 7. New PETS command. A PETS command was added to display usage information about Pause Elements and their status for one or all address spaces in the system. 8. Enhanced DUMP virtual storage browsing. The DUMP command's FIND subcommand was enhanced to function in 64-bit storage. Prior to this PTF, the FIND subcommand would only search for storage regions below the bar. The DUMP command's FIND subcommand was enhanced to accept a LIMIT and ENDADDRESS parameter. These parameters limit the scope of a FIND to either a defined length size of storage (LIMIT) or an ending address (ENDADDRESS). 9. Enhanced DUMP/SNAP instruction execution protection identification. An "I" column was added to both the DUMP and SNAP command. The "I" column indicates if the virtual storage being browsed is instruction execution protected. 10. Enhanced external line command conditional logic. Optional parameters were added to the external line command definition syntax to allow conditional validation to be performed before the line command is issued. For more information, see the "User-Defined Line Commands" page on the CA SYSVIEW TechDocs Portal. 11. New translate table help topic. A help topic named "Translate Tables" was added to the TOPICS command. The topic describes what CA SYSVIEW translate tables are, how to change them, and how to create them. Translate tables can be useful when working with different character encoding or special characters to make data display correctly in CA SYSVIEW. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13129 Copyright (C) 2021 CA. All rights reserved. R00179-NM4160-SP0 DESC(CPU AND STORAGE MONITORING ENHANCEMENTS). ++VER (Z038) FMID (CNM4G00) PRE (SO08681 SO08743 SO08793 SO08895 SO09059 SO09589 SO10098 SO10197 SO10316 SO10497 SO10588 SO10680 SO10853 SO11028 SO11632 SO11642 SO11865 SO11875 SO12051 SO12125 SO12629 SO12721 SO12816 SO13072 SO13364 SO13538 SO13792 SO13989 SO14411 SO14533 SO14761 SO14768 SO14894 SO15081 SO15206 SO15210 SO15790 SO16018 SO16108 SO16292) SUP (BS12816 LT00279 LT00548 LU00279 SO10484 SO13612 SO14921 SO14945 ST10484 ST13612 ST14921 ST14945) ++HOLD (LU00548) SYSTEM FMID(CNM4G00)

Service	Details
	REASON (ACTION) DATE (21074) COMMENT (+----------+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To implement the enhancement | +----------+----------+ |USERS | | |AFFECTED | All users of SYSVIEW | +----------+----------+ |KNOWLEDGE | | |REQUIRED | Product administration | +----------+----------+ |ACCESS | | |REQUIRED | Product libraries | +----------+----------+ ********** * STEPS TO PERFORM * ********** * - ** This Feature PTF requires that the security dataset be refreshed using the security conversion program. 1. Apply the PTF. 2. Deploy the PTF to your run-time libraries. 3. Stop the SYSVIEW STCs, GSSA, and any user sessions. 4. Run Security Conversion JCL contained in CNM4BSAM member GSVUCSEC. 5. Start the SYSVIEW STCs, GSSA, and any user sessions. * -). ++HOLD (LU00548) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21074) COMMENT (+----------+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | Describe the new features | +----------+----------+ |USERS | | |AFFECTED | All users of SYSVIEW | +----------+----------+ |KNOWLEDGE | | |REQUIRED | Product administration | +----------+----------+ |ACCESS | | |REQUIRED | Product libraries | +----------+----------+ ********** * STEPS TO PERFORM * ********** ENHANCEMENT DESCRIPTION:

Service	Details
	This feature PTF enhances CA SYSVIEW's CPU and Storage monitoring with the addition of new MVS data collection metrics and enhanced displays. In addition, there are general MVS enhancements such as virtual storage browsing enhancements, processor hardware listing, and Pause Element allocation usage. This feature PTF contains the following enhancements and changes: 1. New real storage MVS data collection metrics. The following real storage MVS data collection metrics were added: Metric Description -------- ------------------------------ STGRUSE% Real storage used pct STGRUSED Real storage used STGRFRE% Real storage free pct STGRFREE Real storage free STGRCSA CSA in real storage STGRLPA PLPA/MLPA in real storage STGRLSQA LSQA in real storage STGRSQA SQA in real storage The VARMVS parmlib member was updated with the new metrics. 2. New REALSTG dashboard member. A REALSTG dashboard member was added to display an overview of real storage usage on the system. The dashboard is found on the DASHBOARD command or by issuing DASHBOARD REALSTG. 3. New CPU usage MVS data collection metrics. The following CPU usage MVS data collection metrics were added: Metric Description -------- ------------------------------ CPU%RSHR CPU - Relative share pct CPUPWT CPU - Current processor weight The VARMVS parmlib member was updated with the new metrics. 4. New and updated fields on the PRISM command. The following fields were added to the PRISM command to show processor busy relative to the defined processor weights of other LPARs in the central processing complex: Field Description ---------- ------------------------------------ RShr% Processor relative share percent RShr-Graph Processor relative share percent graph RShrStat Processor relative share busy status The following fields were updated on the PRISM command to show valid values in the processor summary data rows when the processor type is CP, IFA, IIP, ICF, IFL, or UNK. Field Description ---------- ------------------------------------ PWt Processing weight CrW Current weight MnW Minimum processing weight MxW Maximum processing weight PmaWt Pricing management adjustment weight PolarWt Polarization weight 5. New CPU data collection help topic. A help topic named "CPU%, CPU%LPAR, CPU%RSHR, what is the difference" was added to the TOPICS command. The topic describes the different techniques CA SYSVIEW uses to collect and display CPU busy

Service	Details
	statistics. 6. New PROCINFO command. A PROCINFO command was added to display processor information from IBM Large System Performance Reference (LSPR). 7. New PETS command. A PETS command was added to display usage information about Pause Elements and their status for one or all address spaces in the system. 8. Enhanced DUMP virtual storage browsing. The DUMP command's FIND subcommand was enhanced to function in 64-bit storage. Prior to this PTF, the FIND subcommand would only search for storage regions below the bar. The DUMP command's FIND subcommand was enhanced to accept a LIMIT and ENDADDRESS parameter. These parameters limit the scope of a FIND to either a defined length size of storage (LIMIT) or an ending address (ENDADDRESS). 9. Enhanced DUMP/SNAP instruction execution protection identification. An "I" column was added to both the DUMP and SNAP command. The "I" column indicates if the virtual storage being browsed is instruction execution protected. 10. Enhanced external line command conditional logic. Optional parameters were added to the external line command definition syntax to allow conditional validation to be performed before the line command is issued. For more information, see the "User-Defined Line Commands" page on the CA SYSVIEW TechDocs Portal. 11. New translate table help topic. A help topic named "Translate Tables" was added to the TOPICS command. The topic describes what CA SYSVIEW translate tables are, how to change them, and how to create them. Translate tables can be useful when working with different character encoding or special characters to make data display correctly in CA SYSVIEW.).

Service	Details
LU00552	LU00552 M.C.S. ENTRIES = ++PTF (LU00552) CICS THRESHOLD TRIGGERS WITH *OVERFLW W/SO09589 PROBLEM DESCRIPTION: When SYSVIEW for CICS does dynamic threshold processing for transactions it is not properly detecting when a clock is active for clock-related variables such as SUSPTIME and DISPTIME. This can result in transaction thresholds falsely triggering with a current value of '*OVERFLW'. Problem only occurs with PTF SO09589 applied. SYMPTOMS: False alerts triggering for many clock-related thresholds. In the reported case threshold messages similar to the following appeared, but the problem is not limited to just DISPTIME and SUSPTIME. However, popular thresholds such as LIFETIME and CPUTIME are not affected. GSVC100W (SDCS) TRANDYN TRANS DISPTIME TRN1 * NORMAL PROBLEM V= *OVERFLW W= 00:04:00 P= 00:04:00 UPPER 0.000000 CICSTEST TRN1 1177 * CICSTEST Desc='Dispatch time GSVC100W (SDCS) TRANDYN TRANS SUSPTIME TRN2 TRM1 NONE PROBLEM V= *OVERFLW W= 00:10:00 P= 00:10:00 UPPER 0.000000 CICSTEST TRN2 65483 TRM1 CICSTEST Desc='Suspend time ' IMPACT: Some transaction thresholds can be erroneously triggered. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13132 Copyright (C) 2021 CA. All rights reserved. R00180-NM4160-SP0 DESC(CICS THRESHOLD TRIGGERS WITH *OVERFLW W/SO09589). ++VER (Z038) FMID (CNM4G00) PRE (SO09589 SO11875 SO12816 SO13538 SO13751 SO16292) SUP (AS09589 LT00552) ++HOLD (LU00552) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21088) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+ |SEQUENCE | After Apply | +----------+ |PURPOSE | To implement the fix | +----------+ |USERS | All users of SYSVIEW for CICS | |AFFECTED | | +----------+ |KNOWLEDGE | Product Administration | |REQUIRED | | +----------+

Service	Details
	|ACCESS | Product libraries | |REQUIRED | Ability to run SYSVIEW for CICS transactions | +----------+----------+ ********** * STEPS TO PERFORM * ********** Apply this fix and either recycle any monitored CICS regions, or use the GSVT (terminate) and GSVS (start) transactions to recycle SYSVIEW for CICS within each CICS region.).

Service	Details
LU00595	LU00595 M.C.S. ENTRIES = ++PTF (LU00595) CICS CONNECTION/DUMP/PURGE MONITORING ENHANCEMENTS ENHANCEMENT DESCRIPTION: This feature PTF enhances CA SYSVIEW's CICS monitoring of CICS remote connections, CICS dumps, and CICS Transaction Class (TCLASS) purge. Several new data collection metrics were added, SMF records contain additional data, and displays were enhanced. This feature PTF contains the following enhancements: 1. New remote connection CICS data collection metrics. The following remote connection CICS data collection metrics were added: Metric Description -------- ---------- CONNBIDS CONNECTION Bids sent CONNDEL CONNECTION Delete requests CONNDL CONNECTION DLI requests CONNFC CONNECTION File control requests CONNIC CONNECTION Interval control requests CONNLINK CONNECTION Allocates for link CONNPC CONNECTION Program control requests CONNREJ CONNECTION Requests rejected CONNREQS CONNECTION Requests attempted CONNTC CONNECTION Transaction routing requests CONNTD CONNECTION Transient data requests CONNTS CONNECTION Temporary storage requests The metrics were added to the SVWYVARS parmlib member. The metrics are eligible to be sent to CA Mainframe Operational Intelligence (CA MOI) if a subscription to the CicsConnection category is present. In addition, CICS remote connection data sent to CA MOI is controlled from CA SYSVIEW with two new parmlib configuration options. Parmlib Option Description ------- ---------- ---------- SVWXTSD Cics-Connection Enable CICS connection data globally SVWCTSD Cics-Connection Enable CICS connection data per CICS The SVWCTSD and SVWXTSD parmlib members were updated with the new parameter. 2. New dump CICS data collection metrics. The following dump CICS data collection metrics were added: Metric Description -------- ---------- CDMPSSYS CICS system dumps suppressed CDMPSTRN CICS transaction dumps suppressed CDMPSUPP CICS dumps suppressed CDUMPS CICS dumps taken The metrics were added to the SVWYVARS parmlib member. 3. Enhanced dump data in CICS system interval (CSYSDATA) SMF record. The following updates were made to the CICS system interval (CSYSDATA) SMF record or were made in support of the changes to the SMF record: * The following fields were added to the CICS system interval (CSYSDATA) SMF record: Field Description

Service	Details

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CSID_CICS_CDMPSSYS   System dumps suppressed
CSID_CICS_CDMPSTRN   Transaction dumps suppressed
CSID_CICS_CDMPSUPP   Dumps suppressed
CSID_CICS_Dumps      Dumps taken
The fields were added to the GSVSMF28 maclib member.
* The CSYSDATA command's SMF record formatter was updated to display
the new CICS dump SMF fields on the SMFRPT when a SMF record is
selected.
* The following CICS dump variables were added to CA EXPLORE Report
Writer:
Variable        Description
-------------   ----------------------------
CICS_CDMPSSYS   System dumps suppressed
CICS_CDMPSTRN   Transaction dumps suppressed
CICS_CDMPSUPP   Dumps suppressed
CICS_Dumps      Dumps taken
The variables were added to the GSVSMF28 report sample member.
* The following CICS dump variables were added to CA Easytrieve:
Variable             Description
------------------   ----------------------------
C28D_CICS_CDMPSUPP   System dumps suppressed
C28D_CICS_CDMPSTRN   Transaction dumps suppressed
C28D_CICS_CDMPSSYS   Dumps suppressed
C28D_CICS_Dumps      Dumps taken
The variables were added to the GSVSMF28 Easytrieve macro member.
4. New TCLASS purge CICS data collection metrics.
The following TCLASS purge CICS data collection metrics were added:
Metric     Description
--------   ---------------------------------------
TCLSPURG   TCLASS transactions purged
TCLSPURI   TCLASS transactions purged immediately
TCLSPURQ   TCLASS transactions purged while queuing
The metrics were added to the SVWYVARS parmlib member.
5. New CTCLASS line command to view transactions defined to a TCLASS.
A Select line command was added to the CTCLASS command to navigate to
the CTRANS command and display all defined transactions belonging to
the selected class.
PRODUCT(S) AFFECTED:
CA SYSVIEW PERFORMANCE MANAGEMENT                          Version 16.0
Related Problem:
SYSVW  13151
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DESC(CICS CONNECTION/DUMP/PURGE MONITORING ENHANCEMENTS).
++VER (Z038)
FMID (CNM4G00)
PRE ( LU00548 SO08894 SO09013 SO09059 SO09589 SO10316
SO10853 SO11875 SO12200 SO12816 SO13538 SO13751
SO13779 SO14361 SO14533 SO14894 SO15433 SO16292  )
SUP ( LT00595 )
++HOLD (LU00595) SYSTEM FMID(CNM4G00)
REASON (ENH    )   DATE (21077)
COMMENT (
```

Service	Details

```
+-------------------------------------------------------------------------+
|     CA SYSVIEW PERFORMANCE MANAGEMENT               Version 16.0        |
+----------+--------------------------------------------------------------+
|SEQUENCE  | After Apply                                                  |
+----------+--------------------------------------------------------------+
|PURPOSE   | Describe the new features                                    |
+----------+--------------------------------------------------------------+
|USERS     |                                                              |
|AFFECTED  | Describe the new features                                    |
+----------+--------------------------------------------------------------+
|KNOWLEDGE |                                                              |
|REQUIRED  | Product administration                                       |
+----------+--------------------------------------------------------------+
|ACCESS    |                                                              |
|REQUIRED  | Product libraries                                            |
+----------+--------------------------------------------------------------+
*************************
* STEPS    TO    PERFORM *
*************************
ENHANCEMENT DESCRIPTION:
This feature PTF enhances CA SYSVIEW's CICS monitoring of CICS remote
connections, CICS dumps, and CICS Transaction Class (TCLASS) purge.
Several new data collection metrics were added, SMF records contain
additional data, and displays were enhanced.
This feature PTF contains the following enhancements:
1. New remote connection CICS data collection metrics.
The following remote connection CICS data collection metrics were
added:
Metric     Description
--------   ---------------------------------------
CONNBIDS   CONNECTION Bids sent
CONNDEL    CONNECTION Delete requests
CONNDL     CONNECTION DLI requests
CONNFC     CONNECTION File control requests
CONNIC     CONNECTION Interval control requests
CONNLINK   CONNECTION Allocates for link
CONNPC     CONNECTION Program control requests
CONNREJ    CONNECTION Requests rejected
CONNREQS   CONNECTION Requests attempted
CONNTC     CONNECTION Transaction routing requests
CONNTD     CONNECTION Transient data requests
CONNTS     CONNECTION Temporary storage requests
The metrics were added to the SVWYVARS parmlib member.
The metrics are eligible to be sent to CA Mainframe Operational
Intelligence (CA MOI) if a subscription to the CicsConnection
category is present. In addition, CICS remote connection data sent to
CA MOI is controlled from CA SYSVIEW with two new parmlib
configuration options.
Parmlib   Option            Description
-------   ---------------   ------------------------------------
SVWXTSD   Cics-Connection   Enable CICS connection data globally
SVWCTSD   Cics-Connection   Enable CICS connection data per CICS
The SVWCTSD and SVWXTSD parmlib members were updated with the new
parameter.
```

Service	Details
	2. New dump CICS data collection metrics. The following dump CICS data collection metrics were added: Metric Description -------- ---------- CDMPSSYS CICS system dumps suppressed CDMPSTRN CICS transaction dumps suppressed CDMPSUPP CICS dumps suppressed CDUMPS CICS dumps taken The metrics were added to the SVWYVARS parmlib member. 3. Enhanced dump data in CICS system interval (CSYSDATA) SMF record. The following updates were made to the CICS system interval (CSYSDATA) SMF record or were made in support of the changes to the SMF record: * The following fields were added to the CICS system interval (CSYSDATA) SMF record: Field Description ---------- ---------- CSID_CICS_CDMPSSYS System dumps suppressed CSID_CICS_CDMPSTRN Transaction dumps suppressed CSID_CICS_CDMPSUPP Dumps suppressed CSID_CICS_Dumps Dumps taken The fields were added to the GSVSMF28 maclib member. * The CSYSDATA command's SMF record formatter was updated to display the new CICS dump SMF fields on the SMFRPT when a SMF record is selected. * The following CICS dump variables were added to CA EXPLORE Report Writer: Variable Description ---------- ---------- CICS_CDMPSSYS System dumps suppressed CICS_CDMPSTRN Transaction dumps suppressed CICS_CDMPSUPP Dumps suppressed CICS_Dumps Dumps taken The variables were added to the GSVSMF28 report sample member. * The following CICS dump variables were added to CA Easytrieve: Variable Description ---------- ---------- C28D_CICS_CDMPSUPP System dumps suppressed C28D_CICS_CDMPSTRN Transaction dumps suppressed C28D_CICS_CDMPSSYS Dumps suppressed C28D_CICS_Dumps Dumps taken The variables were added to the GSVSMF28 Easytrieve macro member. 4. New TCLASS purge CICS data collection metrics. The following TCLASS purge CICS data collection metrics were added: Metric Description -------- ---------- TCLSPURG TCLASS transactions purged TCLSPURI TCLASS transactions purged immediately TCLSPURQ TCLASS transactions purged while queuing The metrics were added to the SVWYVARS parmlib member. 5. New CTCLASS line command to view transactions defined to a TCLASS. A Select line command was added to the CTCLASS command to navigate to the CTRANS command and display all defined transactions belonging to the selected class.

Service	Details
	). ++HOLD (LU00595) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21077) COMMENT (+----------+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To implement the fix | +----------+----------+ |USERS | All users of SYSVIEW for CICS | |AFFECTED | | +----------+----------+ |KNOWLEDGE | Product Administration | |REQUIRED | CICS Systems Programming | +----------+----------+ |ACCESS | Product libraries | |REQUIRED | Ability to run SYSVIEW for CICS transactions | +----------+----------+ ********** * STEPS TO PERFORM * ********** Apply this fix and either recycle any monitored CICS regions, or use the GSVT (terminate) and GSVS (start) transactions to recycle SYSVIEW for CICS within each CICS region.).

Service	Details
LU00630	LU00630 M.C.S. ENTRIES = ++PTF (LU00630) SUPPORT FOR THE IBM FUNCTION REGISTRY FOR Z/OS ENHANCEMENT DESCRIPTION: This feature adds support for the IBM Function Registry for z/OS. CA SYSVIEW now registers with the Function Registry and new commands were added to display Function Registry information. This feature PTF contains the following enhancements: 1. New FXE command. A FXE command was added to display information about vendors, products, and functions in IBM Function Registry for z/OS. Additionally, the command help for the FXE command contains a link to submit a job that runs the IBM FXEPRINT utility, which provides similar information. 2. New DETAILS FXE command. A DETAILS FXE command was added to display a detailed report about one or more vendors, products, and functions in the IBM Function Registry for z/OS. The DETAILS FXE command is issued as a result of selecting an entry on the FXE command. 3. CA SYSVIEW registration with IBM Function Registry for z/OS. CA SYSVIEW now registers with the IBM Function Registry for z/OS. As a result, entries for CA SYSVIEW and its components are displayed on the FXE command. CA SYSVIEW's participation in the IBM Function Registry for z/OS requires the following CA Common Services maintenance: Product Release PTF ---------- ------- ------- CA Common Services 15.0 SO15973 The previously mentioned FXE and FXE DETAILS commands function without the CA Common Services maintenance. CA SYSVIEW does not appear on the FXE commands without the CA Common Services maintenance. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13199 Copyright (C) 2021 CA. All rights reserved. R00182-NM4160-SP0 DESC(SUPPORT FOR THE IBM FUNCTION REGISTRY FOR Z/OS). ++VER (Z038) FMID (CNM4G00) PRE (LU00517 LU00548 LU00595 SO08894 SO09059 SO09589 SO10098 SO10197 SO10316 SO10497 SO10680 SO10853 SO11028 SO11361 SO11632 SO11642 SO11865 SO11875 SO12051 SO12125 SO12200 SO12721 SO12816 SO13538 SO13989 SO14411 SO14533 SO14768 SO14894 SO15081 SO15210 SO16018 SO16108 SO16292) SUP (LT00630) ++HOLD (LU00630) SYSTEM FMID(CNM4G00) REASON (ACTION) DATE (21081) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+

Service	Details
	|SEQUENCE	After Apply | +----------+----------+ |PURPOSE	To implement the fix | +----------+----------+ |USERS	All users of SYSVIEW
AFFECTED		 +----------+----------+ 	KNOWLEDGE	Product Administration
REQUIRED	CICS Systems Programming	 +----------+----------+ 	ACCESS	Product libraries
REQUIRED	Ability to run SYSVIEW for CICS transactions | +----------+----------+ ********** * STEPS TO PERFORM * ********** * - ** This Feature PTF requires that the security dataset be refreshed using the security conversion program. 1. Apply the PTF. 2. Deploy the PTF to your run-time libraries. 3. Stop any CICS regions being monitored by SYSVIEW, or use the GSVT transaction to stop SYSVIEW for CICS within the region. 4. Stop the SYSVIEW STCs, GSSA, and any user sessions. 5. Run Security Conversion JCL contained in CNM4BSAM member GSVUCSEC. 6. Start the SYSVIEW STCs, GSSA, and any user sessions. 7. Start any CICS regions being monitored by SYSVIEW, or use the GSVS transaction to start SYSVIEW for CICS within the region. * -). ++HOLD (LU00630) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21081) COMMENT (+----------+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE	After Apply | +----------+----------+ |PURPOSE	Describe the new features | +----------+----------+ |USERS	
AFFECTED	All users of SYSVIEW	 +----------+----------+ 	KNOWLEDGE	
REQUIRED	Product administration	 +----------+----------+ 	ACCESS	
REQUIRED	Product libraries | +----------+----------+ ********** * STEPS TO PERFORM * ********** ENHANCEMENT DESCRIPTION: This feature adds support for the IBM Function Registry for z/OS.

Service	Details
	CA SYSVIEW now registers with the Function Registry and new commands were added to display Function Registry information. This feature PTF contains the following enhancements: 1. New FXE command. A FXE command was added to display information about vendors, products, and functions in IBM Function Registry for z/OS. Additionally, the command help for the FXE command contains a link to submit a job that runs the IBM FXEPRINT utility, which provides similar information. 2. New DETAILS FXE command. A DETAILS FXE command was added to display a detailed report about one or more vendors, products, and functions in the IBM Function Registry for z/OS. The DETAILS FXE command is issued as a result of selecting an entry on the FXE command. 3. CA SYSVIEW registration with IBM Function Registry for z/OS. CA SYSVIEW now registers with the IBM Function Registry for z/OS. As a result, entries for CA SYSVIEW and its components are displayed on the FXE command. CA SYSVIEW's participation in the IBM Function Registry for z/OS requires the following CA Common Services maintenance: Product Release PTF ---------- ------- ------- CA Common Services 15.0 SO15973 The previously mentioned FXE and FXE DETAILS commands function without the CA Common Services maintenance. CA SYSVIEW does not appear on the FXE commands without the CA Common Services maintenance.).

Service	Details
LU00704	LU00704 M.C.S. ENTRIES = ++PTF (LU00704) PRISM SUMMARY LINES NOT SHOWING FOR LPARS WITH ONE CPU TYPE PROBLEM DESCRIPTION: The PRISM command display has summary lines for each processor Type (CP, SP, ICF, IFA, IFL, IIP) on each LPAR. There exists a problem where if only one processor type is defined to an LPAR the summary line for the processor type does not appear. This problem is caused by an attempt by the PRISM command to hide rows that appear to be duplicates, but instead rows with valuable information were hidden as a result. SYMPTOMS: On the PRISM command display summary lines are not appearing for LPARs with only one processor type defined to it. For example, if an LPAR has 2 CPs defined to it and no other processor types, then a summary line with an Addr of ALL and a Type of CP is incorrectly not displayed. The following is an example of the problem described above: PNo PId PName PStat Addr Type Cnt 13 0D MVS1 ACT ALL ALL 2 . . . . 0000 CP . . . . 0001 CP The following correctly shows the missing Addr ALL Type CP summary line after this PTF has been applied: PNo PId PName PStat Addr Type Cnt 13 0D MVS1 ACT ALL ALL 2 . . . . ALL CP 2 <--- missing line . . . . 0000 CP . . . . 0001 CP IMPACT: Unable to view summarized processor information by type. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13267 Copyright (C) 2021 CA. All rights reserved. R00183-NM4160-SP0 DESC(PRISM SUMMARY LINES NOT SHOWING FOR LPARS WITH ONE CPU TYPE). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 SO10316) SUP (LT00704)

Service	Details
LU00742	LU00742 M.C.S. ENTRIES = ++PTF (LU00742) ABEND S0C9-09 IN PRISM COMMAND W/LU00548 PROBLEM DESCRIPTION: After applying CA SYSVIEW 16.0 PTF LU00548, abend S0C9-09 is possible when issuing the PRISM command. The problem occurs when attempting to calculate processor relative share busy percentage (RShr%) and a dedicated processor is encountered. The weight for the dedicated processor is incorrectly accounted for and eventually a divide by zero occurs. SYMPTOMS: When issuing the PRISM command abend S0C9-09 may be encountered followed by messages similar to the following: GSVX451E Abend S0C9-09 in PRISM command GSVX472I Userid <userid> Terminal <terminal> Interface VTAM GSVX452I SYSVIEW SRB in control at entry to abend GSVX453I Diagnostics for SRB in control at entry to abend GSVX457I Psw 078C1000 BDABB746 Ilc 6 Intc 09 GSVX477I Key 8 State SUP Am 31 Asc PRI GSVX458I Module GSVKPRSM Addr 3DAB6000 Offset 00005746 GSVX450I FixLvl LU00548 GSVX473I Routne FLPA$$ Addr 3DABAE98 Offset 000008AE GSVX459I Data at PSW addr 3DABB73A GSVX460I E3009314 001DE310 91AC001C GSVX455I General registers at entry to abend GSVX467I R0-R1 00000000_00000000 00000000_0009DDC8 GSVX467I R2-R3 00000000_00000000 00000000_00000000 GSVX467I R4-R5 00000000_3DAD15C0 00000000_3DAD1160 GSVX467I R6-R7 00000000_3DAD1060 00000000_3D9C65B0 GSVX467I R8-R9 00000000_3DAA3E80 00000000_3DACE060 GSVX467I R10-R11 00000000_3DABFCE0 00000000_3D918000 GSVX467I R12-R13 00000000_3DABAE98 00000000_3DAC4288 GSVX467I R14-R15 00000000_BDABB6BC 00000000_00000000 GSVX475I Access registers at entry to abend GSVX461I AR0-AR3 00000000 00000000 00000000 00000000 GSVX461I AR4-AR7 00000000 00000000 00000000 00000000 GSVX461I AR8-AR11 00000000 00000000 00000000 00000000 GSVX461I AR12-AR15 00000000 00000000 00000000 00000000 IMPACT: Unable to issue the PRISM command without abend. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13281 Copyright (C) 2021 CA. All rights reserved. R00184-NM4160-SP0 DESC(ABEND S0C9-09 IN PRISM COMMAND W/LU00548). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 SO10316) SUP (AL00548 LT00704 LT00742 LU00704)

Service	Details
LU00763	LU00763 M.C.S. ENTRIES = ++PTF (LU00763) ABEND S0C4 ISSUING CICS CMODS COMMAND PROBLEM DESCRIPTION: Issuing the CMODS command may result in an S0C4 abend while attempting to locate a MODID. This is a random timing abend that has not been reported in the field. SYMPTOMS: S0C4 abend while issuing CMODS command and session terminates. IMPACT: Command fails. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13307 Copyright (C) 2021 CA. All rights reserved. R00185-NM4160-SP0 DESC(ABEND S0C4 ISSUING CICS CMODS COMMAND). ++VER (Z038) FMID (CNM4G00) PRE (SO09589 SO12816 SO14533) SUP (LT00763) MCS LU00395 STARTS ON PAGE 0002 MCS LU00409 STARTS ON PAGE 0003 MCS LU00417 STARTS ON PAGE 0005 MCS LU00517 STARTS ON PAGE 0005 MCS LU00527 STARTS ON PAGE 0008 MCS LU00548 STARTS ON PAGE 0010 MCS LU00552 STARTS ON PAGE 0020 MCS LU00595 STARTS ON PAGE 0021 MCS LU00630 STARTS ON PAGE 0028 MCS LU00704 STARTS ON PAGE 0031 MCS LU00742 STARTS ON PAGE 0033 MCS LU00763 STARTS ON PAGE 0034

Product Family	Product	Release
Systems Management	CA SYSVIEW PERFORMANCE MANAGEMENT	16.00.00

The CA RS 2104 Product/Component Count for this release is 1

CA RS Level	Service	FMID
CAR2104	LU00763	CNM4G00
	LU00742	CNM4G00
	LU00704	CNM4G00
	LU00630	CNM4G00
	LU00595	CNM4G00
	LU00552	CNM4G00
	LU00548	CNM4G00
	LU00527	CNM4G00
	LU00517	CNM4G00
	LU00417	CNM4G00
	LU00409	CNM4G00
	LU00395	CNM4G00
CAR2103	SO16310	CNM4G00
	LU00279	CNM4G00
CAR2102	SO16292	CNM4G00
	SO16215	CNM4G00
	SO16213	CNM4G00
	SO16162	CNM4G00
	SO16108	CNM4G00
	SO16069	CNM4G00
	SO16035	CNM4G00
	SO16034	CNM4G00
	SO14945	CNM4G00
CAR2101	SO16018	CNM4G00
	SO15790	CNM4G00
	SO13275	CNM4G00
CAR2012	SO15783	CNM4G00
	SO15746	CNM4G00
	SO15546	CNM4G00
	SO15518	CNM4G00
	SO15433	CNM4G00
	SO15374	CNM4G00
CAR2011	SO15474	CNM4G00
	SO15325	CNM4G00
	SO15274	CNM4G00
	SO15212	CNM4G00
	SO15210	CNM4G00
	SO15206	CNM4G00
	SO15081	CNM4G00
	SO15053	CNM4G00
	SO14964	CNM4G00
CAR2010	SO14985	CNM4G00
	SO14921	CNM4G00
	SO14894	CNM4G00
	SO14768	CNM4G00
	SO14761	CNM4G00
	SO14746	CNM4G00

CA RS Level	Service	FMID
	SO14740	CNM4G00
	SO14696	CNM4G00
CAR2009	SO14661	CNM4G00
	SO14653	CNM4G00
	SO14533	CNM4G00
	SO14487	CNM4G00
	SO14442	CNM4G00
	SO14411	CNM4G00
	SO14363	CNM4G00
	SO14361	CNM4G00
	SO14259	CNM4G00
	SO13364	CNM4G00
	SO13186	CNM4G00
CAR2008	SO14130	CNM4G00
	SO14092	CNM4G00
	SO14004	CNM4G00
	SO13996	CNM4G00
	SO13989	CNM4G00
	SO13984	CNM4G00
	SO13927	CNM4G00
	SO13792	CNM4G00
	SO13701	CNM4G00
	SO13485	CNM4G00
	SO13350	CNM4G00
	SO13268	CNM4G00
CAR2007	SO13782	CNM4G00
	SO13779	CNM4G00
	SO13751	CNM4G00
	SO13612	CNM4G00
	SO13538	CNM4G00
	SO13529	CNM4G00
	SO13408	CNM4G00
	SO13188	CNM4G00
CAR2006	SO13276	CNM4G00
	SO13240	CNM4G00
	SO13228	CNM4G00
	SO13187	CNM4G00
	SO13116	CNM4G00
	SO13089	CNM4G00
	SO13072	CNM4G00
	SO13033	CNM4G00
CAR2005	SO12880	CNM4G00
	SO12816	CNM4G00
	SO12773	CNM4G00
	SO12721	CNM4G00
	SO12629	CNM4G00
	SO12625	CNM4G00

CA RS Level	Service	FMID
	SO12580	CNM4G00
	SO12330	CNM4G00
CAR2004	SO12516	CNM4G00
	SO12474	CNM4G00
	SO12454	CNM4G00
	SO12406	CNM4G00
	SO12401	CNM4G00
	SO12381	CNM4G00
	SO12354	CNM4G00
	SO12347	CNM4G00
	SO12257	CNM4G00
	SO12200	CNM4G00
	SO12163	CNM4G00
CAR2003	SO12125	CNM4G00
	SO12051	CNM4G00
	SO12050	CNM4G00
	SO11959	CNM4G00
	SO11955	CNM4G00
	SO11898	CNM4G00
	SO11891	CNM4G00
	SO11875	CNM4G00
	SO11865	CNM4G00
	SO11762	CNM4G00
	SO10411	CNM4G00
CAR2002	SO11830	CNM4G00
	SO11821	CNM4G00
	SO11798	CNM4G00
	SO11683	CNM4G00
	SO11642	CNM4G00
	SO11632	CNM4G00
	SO11553	CNM4G00
	SO11361	CNM4G00
CAR2001	SO11122	CNM4G00
	SO11028	CNM4G00
CAR1912	SO10853	CNM4G00
	SO10849	CNM4G00
	SO10710	CNM4G00
	SO10680	CNM4G00
	SO10649	CNM4G00
	SO10588	CNM4G00
	SO10541	CNM4G00
CAR1911	SO10537	CNM4G00
	SO10497	CNM4G00
	SO10493	CNM4G00
	SO10484	CNM4G00
	SO10421	CNM4G00
	SO10382	CNM4G00

CA RS Level	Service	FMID
	SO10332	CNM4G00
	SO10326	CNM4G00
	SO10316	CNM4G00
	SO10269	CNM4G00
	SO10214	CNM4G00
	SO10209	CNM4G00
CAR1910	SO10206	CNM4G00
	SO10197	CNM4G00
	SO10143	CNM4G00
	SO10098	CNM4G00
	SO09844	CNM4G00
	SO09632	CNM4G00
CAR1909	SO09772	CNM4G00
	SO09681	CNM4G00
	SO09650	CNM4G00
	SO09607	CNM4G00
	SO09589	CNM4G00
	SO09537	CNM4G00
	SO08894	CNM4G00
CAR1908	SO09287	CNM4G00
	SO09281	CNM4G00
	SO09059	CNM4G00
	SO09013	CNM4G00
	SO08793	CNM4G00
CAR1907	SO08895	CNM4G00
	SO08743	CNM4G00
	SO08740	CNM4G00
	SO08698	CNM4G00
	SO08681	CNM4G00
	SO08674	CNM4G00
	SO08553	CNM4G00
	SO08544	CNM4G00
	SO08502	CNM4G00
	SO08485	CNM4G00
	SO08459	CNM4G00
	SO08228	CNM4G00