CA SYSVIEW Performance Management 16.0
CA RS 2105 Service List

Service	Description	Type
LU00806	ABEND S0C4 GSVYPIPE ISSUING CPIPE / CXDISTAT STORAGE LEAK	** PRP **
LU00838	SMFEWTM WRITING OF SMF RECORDS USES A SHARED WORKAREA	PTF
LU00849	DATA COLLECTION EXCEPTION RULETYPE AND TRIGLVL ENHANCEMENTS	PTF
LU00894	CICS TS 6.1 ETP10 OPEN BETA SUPPORT	PTF
LU00919	SPAWNED REXX SESSIONS EXECUTING UNDER WRONG PROFILE	PTF
LU00933	GSVC134E MESSAGE DURING SYSVIEW SHUTDOWN IN CICS REGION	PTF
LU00951	NEW CICS TRANSACTION GATEWAY MONITORING	PTF
LU00958	UPDATED Z/OSMF CONFIGURATION WORKFLOWS	PTF
LU01005	NEW COMMAND FORMATS MISSING FROM DEFAULT PROFILE	PTF
LU01050	IKJEFT01 RETURN CODE 19 USING CSVGEN WITH REPORT WRITER	PTF
LU01064	IBM MQ COMMAND STANDARDIZATION	PTF
LU01071	SECU016E INCORRECT JOBNAME SECURITY CALLS	PTF
LU01098	LGLOGS INCORRECT STATUS FOR DSLB LOG STREAMS	PTF
LU01112	CONFIGURATION MODULE MISMATCH FOR JES2 2.3 AND 2.4	PTF

The CA RS 2105 service count for this release is 14

FMID	Service	Description	Type
CNM4G00	LU00806	ABEND S0C4 GSVYPIPE ISSUING CPIPE / CXDISTAT STORAGE LEAK	** PRP **
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	LU01112	CONFIGURATION MODULE MISMATCH FOR JES2 2.3 AND 2.4	PTF
The CA RS 2105 service count for this FMID is 14			

Service	Details
LU00806	LU00806 M.C.S. ENTRIES = ++PTF (LU00806) ABEND S0C4 GSVYPIPE ISSUING CPIPE / CXDISTAT STORAGE LEAK PROBLEM DESCRIPTION: The following problems occur in SYSVIEW for CICS if 16.0 PTF SO16292 is applied. These problems only affect the address space of the user issuing the commands; CICS address spaces are not affected. 1. Each time the CXDISTAT command is issued it allocates a register save area but fails to free it at command termination. The storage is allocated by module GSVYXDIS in E-PVT Subpool 0 Key 8 with a length of x'328'. The storage area begins with an eyecatcher of RSAP. Note that hitting Enter to refresh an existing CXDISTAT command display does not contribute to the problem. The problem only occurs when CXDISTAT is entered from a menu or another command display. The storage will get freed when the user's SYSVIEW session ends. 2. The CPIPE command gets abend S0C4 due to an incorrect storage address. The abend only occurs when CPIPE is issued in XSYSTEM mode. SYMPTOMS: 1. Repeated invocations of the CXDISTAT command in a long running SYSVIEW session can cause a buildup of these areas in E-PVT storage. This could potentially lead to storage problems in the issuing address space. 2. Command CPIPE XSYSTEM abends with messages similar to the following: GSVX451E Abend S0C4-04 in CPIPE command GSVX452I SYSVIEW SRB in control at entry to abend GSVX453I Diagnostics for SRB in control at entry to abend GSVX457I Psw 078C0000 BDA4F95A Ilc 4 Intc 04 GSVX477I Key 8 State SUP Am 31 Asc PRI GSVX458I Module GSVYPIPE Addr 3DA4E000 Offset 0000195A GSVX450I FixLvl SO16292 GSVX473I Routne UPDX$$ Addr 3DA4F8D0 Offset 0000008A GSVX459I Data at PSW addr 3DA4F954 GSVX460I D00850D0 E004B914 00DE9500 GSVX455I General registers at entry to abend GSVX467I R0-R1 00000000_00000000 00000000_3D8C4CEC GSVX467I R2-R3 00000000_3B2AC6F9 00000000_3DD229C0 GSVX467I R4-R5 00000000_00000054 00000000_00696D48 GSVX467I R6-R7 00000000_00697040 00000000_00000000 GSVX467I R8-R9 00000000_3DDA0960 00000000_3DD98610 GSVX467I R10-R11 00000000_3DA4FA08 00000000_3D889000 GSVX467I R12-R13 00000000_3DA4F8D0 00000000_3D895468 GSVX467I R14-R15 00000000_00000000 00000000_3DA4F8D0 IMPACT: 1. Possible S878 or S80A abends in the user's address space if storage becomes exhausted. 2. S0C4 abend in the user's address space and a dump is taken. CIRCUMVENTION: 1. If the CXDISTAT command has been issued a lot, occasionally exit SYSVIEW to free the storage and then start a new session. 2. Do not request cross-system data on the CPIPE command. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13296

Service	Details
	Copyright (C) 2021 CA. All rights reserved. R00186-NM4160-SP0 DESC(ABEND S0C4 GSVYPIPE ISSUING CPIPE / CXDISTAT STORAGE LEAK). ++VER (Z038) FMID (CNM4G00) PRE (SO16292) SUP (AS16292 LT00806)

Service	Details
LU00838	LU00838 M.C.S. ENTRIES = ++PTF (LU00838) SMFEWTM WRITING OF SMF RECORDS USES A SHARED WORKAREA PROBLEM DESCRIPTION: When CA SYSVIEW writes any of its records to IBM SMF it is using a shared workarea on the IBM SMFEWTM macro call. Dependent on timing this could theoretically present an unknown problem if multiple tasks were writing records at the same time. This does not affect the writing of SYSVIEW records to a log stream, only to SMF. SYMPTOMS: No known problems/symptoms have been identified as a result of this. At this time it is being addressed as a proactive measure. IMPACT: Unknown. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13297 Copyright (C) 2021 CA. All rights reserved. R00187-NM4160-SP0 DESC(SMFEWTM WRITING OF SMF RECORDS USES A SHARED WORKAREA). ++VER (Z038) FMID (CNM4G00) PRE (SO09059 SO10680 SO11875 SO16108) SUP (LT00838)

Service	Details
LU00849	LU00849 M.C.S. ENTRIES = ++PTF (LU00849) DATA COLLECTION EXCEPTION RULETYPE AND TRIGLVL ENHANCEMENTS ENHANCEMENT DESCRIPTION: This feature PTF enhances CA SYSVIEW's data collection exception processing with the addition of new threshold rule types and a new state/threshold trigger level. This feature PTF contains the following enhancements and changes: 1. New threshold exception rule types ABOVE and BELOW. Threshold exception rule types ABOVE and BELOW were added in addition to the previously existing CHANGE, LOWER, and UPPER. The ABOVE/BELOW rule types are similar to UPPER/LOWER, but instead of using averages to determine an exception, ABOVE/BELOW relies on a metric to be above or below the defined limit for the entire duration to be considered an exception. The following commands were enhanced to allow a rule type of ABOVE or BELOW in the RuleType field on a threshold definition: CTHRESH, IMSTHRSH, MQTHRESH, TCPTHRSH, THRESH The following parmlib members were enhanced to allow a rule type of ABOVE and BELOW on the RULETYPE parameter of a DEFINE threshold definition statement: CTHRESH, IMSTHRSH, MQSTHRSH, MVSTHRSH, TCPTHRSH 2. New state/threshold exception trigger level NOTNORM. State and threshold exception trigger level NOTNORM was added in addition to the previously existing CHANGE, HIGH, NONE, PROBLEM, STATUS, TRACE, and WARNING. The NOTNORM trigger level causes state and threshold exceptions to occur when the status value changes or the status value is greater than NORMAL. The following commands were enhanced to allow a trigger level of NOTNORM in the TrigLvl field on a state or threshold definition: CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES, MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH The following parmlib members were enhanced to allow a trigger level of NOTNORM on the TRIGLVL parameter of a DEFINE state and threshold definition statement: CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, MQSSTATE, MQSTHRSH, MVSSTATE, MVSTHRSH, SVWOSTAT, TCPSTATE, TCPTHRSH 3. New state/threshold exception capture trigger level NOTNORM. State and threshold exception capture trigger level NOTNORM was added in addition to the previously existing CHANGE, HIGH, NONE, PROBLEM, STATUS, TRACE, and WARNING. The NOTNORM capture trigger level causes state and threshold captures to occur when the status value changes or the status status value is greater than NORMAL. The following commands were enhanced to allow a capture trigger level of NOTNORM in the CapLevel field on a state or threshold definition: CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES, MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH The following parmlib members were enhanced to allow a capture trigger level of NOTNORM on the CAPLEVEL parameter of a DEFINE state and threshold definition statement: CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, MQSSTATE, MQSTHRSH, MVSSTATE, MVSTHRSH, SVWOSTAT, TCPSTATE, TCPTHRSH 4. Updated alert commands to show threshold rule types ABOVE and BELOW. The RuleType field of the following alert commands were updated to

Service	Details
	display threshold exception rule types ABOVE and BELOW: ALERTS, CALERTS, IMSALERT, JVMALERT, MQALERTS, TCPALERT 5. Updated METRIC command to accept threshold rule types ABOVE and BELOW. The RULETYPE parameter of the METRIC command was updated to accept rule type values of ABOVE and BELOW in addition to the previously existing parameters CHANGE, LOWER, STATE, and UPPER. 6. Updated VARS command to display if a rule type is used for a metric. Fields were added to the VARS command to indicate if a metric has a state/threshold exception definition for each rule type. The following fields were added: Field Description -------- ------------------------ RTAbove Rule type above defined RTBelow Rule type below defined RTChange Rule type change defined RTLower Rule type lower defined RTState Rule type state defined RTUpper Rule type upper defined 7. Updated CSTATUS command to display exception rule types ABOVE and BELOW. The RuleType field of the CSTATUS command was updated to show a value of ABOVE and BELOW for threshold exceptions of those types. 8. Updated XLOG command to display exception rule types ABOVE and BELOW. The Rule field of the XLOG command was updated to show a value of ABOVE and BELOW for threshold exceptions of those types. Also, when a record is selected on the XLOG command the resulting SMF record report was updated to show rule types of ABOVE and BELOW. 9. Updated exception SMF record GSVSMF03 and reporting. The following updates were made to the exception SMF record macro GSVSMF03 and the reporting on the SMF record: * The following equates were added to the exception SMF macro: Equate Description ------------------- ---------------------- ZTED_RuleType_Above Above limit threshold ZTED_RuleType_Below Below limit threshold The equates were added to the GSVSMF03 maclib member. * The following exception ID Options were updated in CA EXPLORE Report Writer to show a rule type value of ABOVE and BELOW: Variable Description ------------------- ---------------------- RULETYPE Threshold rule type * The following exception equates were added in CA Easytrieve to show a rule type value of ABOVE and BELOW: Variable Description ------------------- ---------------------- ZTED_RuleType_Above Above limit threshold ZTED_RuleType_Below Below limit threshold The variables were added to the GSVSMF03 Easytrieve macro member. 10. Updated CICS transaction detail SMF record GSVSMF27 and reporting. The following updates were made to the CICS transaction detail SMF record macro GSVSMF27 and the reporting on the SMF record: * The following equates were added to the exception SMF macro: Equate Description ------------------- ---------------------- MNSTHS_Type_Above Above limit threshold

Service	Details
	MNSTHS_Type_Below Below limit threshold The equates were added to the GSVSMF27 maclib member. * The following CICS transaction detail ID Options were updated in CA EXPLORE Report Writer to show a rule type value of ABOVE and BELOW: Variable Description ------------------ --------------------- THS_Type Threshold rule type The variables were added to the GSVSMF27 report sample member. * The following CICS transaction detail equates were added in CA Easytrieve to show a rule type value of ABOVE and BELOW: Variable Description ------------------ --------------------- MNSTHS_Type_Above Above limit threshold MNSTHS_Type_Below Below limit threshold The variables were added to the GSVSMF27 Easytrieve macro member. 11. Updated "Threshold and State Definitions" help topic. The help topic named "Threshold and State Definitions" was updated to describe threshold rule types ABOVE and BELOW in detail in addition to the previously existing rule types. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13360 Copyright (C) 2021 CA. All rights reserved. R00188-NM4160-SP0 DESC(DATA COLLECTION EXCEPTION RULETYPE AND TRIGLVL ENHANCEMENTS). ++VER (Z038) FMID (CNM4G00) PRE (LU00409 LU00548 LU00595 LU00630 SO08894 SO08895 SO09013 SO09059 SO09589 SO09844 SO10098 SO10316 SO10382 SO10497 SO10588 SO10710 SO11028 SO11553 SO11632 SO11642 SO11875 SO12125 SO12200 SO12816 SO13072 SO13116 SO13538 SO13751 SO13989 SO14092 SO14361 SO14533 SO14761 SO14894 SO15081 SO15206 SO15433 SO15546 SO15790 SO16018 SO16034 SO16108 SO16292 SO16310) SUP (AS09013 CC08481 LT00279 LT00849 LU00279 SO08228 SO08674 SO09681 SO09772 SO10214 SO10326 SO10332 SO10537 SO12354 SO13350 SO14259 SO14487 SO14921 SO14945 ST08228 ST08674 ST09681 ST09772 ST10214 ST10326 ST10332 ST10537 ST12354 ST13350 ST14259 ST14487 ST14921 ST14945) ++HOLD (LU00849) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21098) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | Describe the new features | +----------+----------+ |USERS | | |AFFECTED | All users of SYSVIEW |

Service	Details

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+----------+-------------------------------------------------------------+
|KNOWLEDGE |                                                             |
|REQUIRED  | Product administration                                      |
+----------+-------------------------------------------------------------+
|ACCESS    |                                                             |
|REQUIRED  | Product libraries                                           |
+----------+-------------------------------------------------------------+
*************************
* STEPS    TO    PERFORM *
*************************
ENHANCEMENT DESCRIPTION:
This feature PTF enhances CA SYSVIEW's data collection exception
processing with the addition of new threshold rule types and a new
state/threshold trigger level.
This feature PTF contains the following enhancements and changes:
1. New threshold exception rule types ABOVE and BELOW.
Threshold exception rule types ABOVE and BELOW were added in addition
to the previously existing CHANGE, LOWER, and UPPER. The ABOVE/BELOW
rule types are similar to UPPER/LOWER, but instead of using averages
to determine an exception, ABOVE/BELOW relies on a metric to be above
or below the defined limit for the entire duration to be considered
an exception.
The following commands were enhanced to allow a rule type of ABOVE
or BELOW in the RuleType field on a threshold definition:
CTHRESH, IMSTHRSH, MQTHRESH, TCPTHRSH, THRESH
The following parmlib members were enhanced to allow a rule type of
ABOVE and BELOW on the RULETYPE parameter of a DEFINE threshold
definition statement:
CTHRESH, IMSTHRSH, MQSTHRSH, MVSTHRSH, TCPTHRSH
2. New state/threshold exception trigger level NOTNORM.
State and threshold exception trigger level NOTNORM was added in
addition to the previously existing CHANGE, HIGH, NONE, PROBLEM,
STATUS, TRACE, and WARNING. The NOTNORM trigger level causes state
and threshold exceptions to occur when the status value changes or
the status value is greater than NORMAL.
The following commands were enhanced to allow a trigger level of
NOTNORM in the TrigLvl field on a state or threshold definition:
CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES,
MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH
The following parmlib members were enhanced to allow a trigger level
of NOTNORM on the TRIGLVL parameter of a DEFINE state and threshold
definition statement:
CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, MQSSTATE, MQSTHRSH,
MVSSTATE, MVSTHRSH, SVWOSTAT, TCPSTATE, TCPTHRSH
3. New state/threshold exception capture trigger level NOTNORM.
State and threshold exception capture trigger level NOTNORM was added
in addition to the previously existing CHANGE, HIGH, NONE, PROBLEM,
STATUS, TRACE, and WARNING. The NOTNORM capture trigger level causes
state and threshold captures to occur when the status value changes
or the status status value is greater than NORMAL.
The following commands were enhanced to allow a capture trigger level
of NOTNORM in the CapLevel field on a state or threshold definition:
CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES,
MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH
```

Service	Details
	The following parmlib members were enhanced to allow a capture trigger level of NOTNORM on the CAPLEVEL parameter of a DEFINE state and threshold definition statement: CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, MQSSTATE, MQSTHRSH, MVSSTATE, MVSTHRSH, SVWOSTAT, TCPSTATE, TCPTHRSH 4. Updated alert commands to show threshold rule types ABOVE and BELOW. The RuleType field of the following alert commands were updated to display threshold exception rule types ABOVE and BELOW: ALERTS, CALERTS, IMSALERT, JVMALERT, MQALERTS, TCPALERT 5. Updated METRIC command to accept threshold rule types ABOVE/ BELOW. The RULETYPE parameter of the METRIC command was updated to accept rule type values of ABOVE and BELOW in addition to the previously existing parameters CHANGE, LOWER, STATE, and UPPER. 6. Updated VARS command to display if a rule type is used for a metric. Fields were added to the VARS command to indicate if a metric has a state/threshold exception definition for each rule type. The following fields were added: Field Description -------- ------------------------ RTAbove Rule type above defined RTBelow Rule type below defined RTChange Rule type change defined RTLower Rule type lower defined RTState Rule type state defined RTUpper Rule type upper defined 7. Updated CSTATUS command to display exception rule types ABOVE/BELOW. The RuleType field of the CSTATUS command was updated to show a value of ABOVE and BELOW for threshold exceptions of those types. 8. Updated XLOG command to display exception rule types ABOVE and BELOW. The Rule field of the XLOG command was updated to show a value of ABOVE and BELOW for threshold exceptions of those types. Also, when a record is selected on the XLOG command the resulting SMF record report was updated to show rule types of ABOVE and BELOW. 9. Updated exception SMF record GSVSMF03 and reporting. The following updates were made to the exception SMF record macro GSVSMF03 and the reporting on the SMF record: * The following equates were added to the exception SMF macro: Equate Description ------------------- ---------------------- ZTED_RuleType_Above Above limit threshold ZTED_RuleType_Below Below limit threshold The equates were added to the GSVSMF03 maclib member. * The following exception ID Options were updated in CA EXPLORE Report Writer to show a rule type value of ABOVE and BELOW: Variable Description ------------------- ---------------------- RULETYPE Threshold rule type * The following exception equates were added in CA Easytrieve to show a rule type value of ABOVE and BELOW: Variable Description ------------------- ---------------------- ZTED_RuleType_Above Above limit threshold ZTED_RuleType_Below Below limit threshold The variables were added to the GSVSMF03 Easytrieve macro member.

Service	Details

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10. Updated CICS transaction detail SMF record GSVSMF27 and reporting.
The following updates were made to the CICS transaction detail SMF
record macro GSVSMF27 and the reporting on the SMF record:
* The following equates were added to the exception SMF macro:
Equate               Description
-------------------  --------------------
MNSTHS_Type_Above    Above limit threshold
MNSTHS_Type_Below    Below limit threshold
The equates were added to the GSVSMF27 maclib member.
* The following CICS transaction detail ID Options were updated in CA
EXPLORE Report Writer to show a rule type value of ABOVE and BELOW:
Variable             Description
-------------------  --------------------
THS_Type             Threshold rule type
The variables were added to the GSVSMF27 report sample member.
* The following CICS transaction detail equates were added in CA
Easytrieve to show a rule type value of ABOVE and BELOW:
Variable             Description
-------------------  --------------------
MNSTHS_Type_Above    Above limit threshold
MNSTHS_Type_Below    Below limit threshold
The variables were added to the GSVSMF27 Easytrieve macro member.
11. Updated "Threshold and State Definitions" help topic.
The help topic named "Threshold and State Definitions" was updated to
describe threshold rule types ABOVE and BELOW in detail in addition
to the previously existing rule types.
).
++HOLD (LU00849) SYSTEM FMID(CNM4G00)
REASON (RESTART)   DATE (21098)
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.
).
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Service	Details
LU00894	LU00894 M.C.S. ENTRIES = ++PTF (LU00894) CICS TS 6.1 ETP10 OPEN BETA SUPPORT ENHANCEMENT DESCRIPTION: Compatibility support for IBM CICS Transaction Server (TS) version 6.1 ETP10 Open Beta. In addition to CICS TS 6.1 ETP10 Open Beta support, the following enhancements were added: 1. Enhanced CICS transaction detail (CTRANLOG) SMF record. The following updates were made to the CICS transaction detail (CTRANLOG) SMF record or were made in support of the changes to the SMF record: * The following field was added to the CICS transaction detail (CTRANLOG) SMF record: Field Description ---------- ---------- MNS_SOTLSLVL Inbound TLS level The field was added to the GSVSMF27 maclib member. * The SMF record formatter for the CTRANLOG command was updated to display the new SMF field on the SMFRPT when an SMF record is selected. * The following variable was added to CA EXPLORE Report Writer: Variable Description ---------- ---------- C_SOTLSLVL Inbound TLS level The variable was added to the GSVSMF27 report sample member. * The following variable was added to CA Easytrieve: Variable Description ---------- ---------- MNS_SOTLSLVL Inbound TLS level The variable was added to the GSVSMF27 Easytrieve macro member. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13398 Copyright (C) 2021 CA. All rights reserved. R00189-NM4160-SP0 DESC(CICS TS 6.1 ETP10 OPEN BETA SUPPORT). ++VER (Z038) FMID (CNM4G00) PRE (LU00527 LU00548 LU00595 LU00849 SO09013 SO09059 SO09589 SO10316 SO10680 SO11028 SO11875 SO12816 SO13072 SO13350 SO13538 SO13751 SO14092 SO14361 SO14533 SO14894 SO15206 SO15790 SO16018 SO16108 SO16292) SUP (BS12816 LT00838 LT00894 LU00838 SO13612 ST13612) ++HOLD (LU00894) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21103) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+

Service	Details
	|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 * ********** ENHANCEMENT DESCRIPTION: Compatibility support for IBM CICS Transaction Server (TS) version 6.1 ETP10 Open Beta. In addition to CICS TS 6.1 ETP10 Open Beta support, the following enhancements were added: 1. Enhanced CICS transaction detail (CTRANLOG) SMF record. The following updates were made to the CICS transaction detail (CTRANLOG) SMF record or were made in support of the changes to the SMF record: * The following field was added to the CICS transaction detail (CTRANLOG) SMF record: Field Description ---------- ---------- MNS_SOTLSLVL Inbound TLS level The field was added to the GSVSMF27 maclib member. * The SMF record formatter for the CTRANLOG command was updated to display the new SMF field on the SMFRPT when an SMF record is selected. * The following variable was added to CA EXPLORE Report Writer: Variable Description ---------- ---------- C_SOTLSLVL Inbound TLS level The variable was added to the GSVSMF27 report sample member. * The following variable was added to CA Easytrieve: Variable Description ---------- ---------- MNS_SOTLSLVL Inbound TLS level The variable was added to the GSVSMF27 Easytrieve macro member.). ++HOLD (LU00894) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21103) COMMENT (+----------+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE	After Apply | +----------+----------+ |PURPOSE	To implement the fix | +----------+----------+ |USERS	All users of SYSVIEW for CICS

Service	Details
	|AFFECTED | |
	+----------+--+
	|KNOWLEDGE | Product Administration |
	|REQUIRED | CICS Systems Programming |
	+----------+--+
	|ACCESS | Product libraries |
	|REQUIRED | Ability to run SYSVIEW for CICS transactions |
	+----------+--+
	**************************
	* STEPS TO PERFORM *
	**************************
	After applying this fix any monitored CICS regions must be recycled
	to pick up the change.
	).

Service	Details
LU00919	LU00919 M.C.S. ENTRIES = ++PTF (LU00919) SPAWNED REXX SESSIONS EXECUTING UNDER WRONG PROFILE PROBLEM DESCRIPTION: The RXDISP command is used to run a REXX exec. This command will spawn a separate SYSVIEW session to execute the REXX. The spawned REXX session should execute under the same profile as the original SYSVIEW session. Depending on how the RXDISP command was executed, the profile being used may or may not be the user's profile. For example, commands executed via the SYSVIEW capture or XDI interface execute under a specific profile for the respective interface. Currently, not all spawned REXX sessions execute under the correct profile. This fix is to correct this behavior and ensure that all REXX sessions spawned by SYSVIEW execute under the correct profile. SYMPTOMS: REXX sessions spawned by SYSVIEW execute under a different profile than the original SYSVIEW session. IMPACT: REXX sessions that get spawned by SYSVIEW may execute under a different profile than expected. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13429 Copyright (C) 2021 CA. All rights reserved. R00190-NM4160-SP0 DESC(SPAWNED REXX SESSIONS EXECUTING UNDER WRONG PROFILE). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 SO11875 SO12816 SO15210) SUP (LT00919 SO08698 ST08698)

Service	Details
LU00933	LU00933 M.C.S. ENTRIES = ++PTF (LU00933) GSVC134E MESSAGE DURING SYSVIEW SHUTDOWN IN CICS REGION PROBLEM DESCRIPTION: When shutting down SYSVIEW in a CICS region it issues a IARV64 detach for a token that is not associated to any previously obtained storage. This problem only occurs if PTF SO16018 is applied. SYMPTOMS: During SYSVIEW shutdown, GSVT, within a CICS region the following messages are received. GSVC062I (GSVI) NSS-PC CALL IARV64 detach with user token GSVC134E (GSVI) NSS-PC request failed R15=00000008 R0=0FBAD4F0 R1=0000000C GSVC062E (GSVI) NSS-PC CALL failed. RC 00000008 RS 0000000C IMPACT: Messages are generated for a situation that is not a problem. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13194 Copyright (C) 2021 CA. All rights reserved. R00191-NM4160-SP0 DESC(GSVC134E MESSAGE DURING SYSVIEW SHUTDOWN IN CICS REGION). ++VER (Z038) FMID (CNM4G00) PRE (LU00894 SO11875 SO12816 SO13538 SO14533 SO14894 SO16018) SUP (LT00933)

Service	Details
LU00951	LU00951 M.C.S. ENTRIES = ++PTF (LU00951) NEW CICS TRANSACTION GATEWAY MONITORING ENHANCEMENT DESCRIPTION: This feature PTF contains the following enhancements in support of monitoring IBM CICS Transaction Gateway (CTG) for z/OS. CA SYSVIEW only supports monitoring CTG servers that are deployed in a remote mode topology, where the CTG daemon runs on z/OS. CA SYSVIEW supports CTG v9.1.0 and higher. 1. New CTG System Configuration Option. A new "Component-CTG" option was added to the System Configuration Options member. This option controls whether the CA SYSVIEW for CTG monitoring component is enabled. The CTG monitoring delivered in this feature PTF is included with the CA SYSVIEW Option for CICS license. However, the "Option-CICS" System Configuration Option is not required to be enabled for the CTG monitoring to function. In addition, CA SYSVIEW uses its JVM Data Collector Agent technology to monitor CTG instances. The "Component-JVM" System Configuration Option must be enabled. 2. Enhanced JVM Data Collector Agent. The JVM Data Collector Agent was enhanced to monitor CTG. The agent is required to be configured in each CTG instance that is to be monitored. Once the agent is configured, CA SYSVIEW can display data about the monitored CTG instance on several new displays. More information on configuring the JVM Data Collector Agent in CTG instances can be found in the SYSVIEW Tech Docs Portal page titled "Configure the JVM Data Collector Agent" under the "JVM Data Collection" section. A new option named "monctg" can be specified when configuring the JVM Data Collector Agent. This option controls whether CA SYSVIEW's JVM Data Collector Agent will provide real-time CTG statistics. If the option is disabled, CA SYSVIEW's general JVM monitoring will still be available. More information on the new option can be found in the SYSVIEW Tech Docs Portal page titled "Options for the JVM Data Collector Agent" under the "JVM Data Collection" section. 3. New CTGLIST command. The CTGLIST command dynamically discovers all CTG daemons running in a remote mode topology on z/OS systems and displays them in a list. The command shows server performance information for each CTG instance. In addition, high-level CTG configuration information is displayed. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. Line commands are available to navigate to other CTG displays and take actions against the CTG instance. For example, resetting the health value, enabling and disabling request monitoring exits, and shutting down the CTG instance. The CTGLIST command supports displaying one or more CTG instances in the same system and multiple systems (XSYSTEM).

Service	Details
	4. New CTGSET command. The CTGSET command is a function command that performs administrative functions on a given CTG instance. For example, the CTGSET command can start and stop IPIC connections to CICS servers, reset the health of the CTG instance, and modify the trace level inside the CTG instance. The CTGSET command supports performing functions on one or more CTG instances in the same system and multiple systems (XSYSTEM). 5. New CTGSRVR command. The CTGSRVR command lists all CICS server connections defined and in use by each CTG instance. Statistics are displayed for each connection such as request counts, average response times, and connection failures. The CTGSRVR command has three different screens: SUMMARY, IPIC, and EXCI. These screens contain fields specific to the connection type specified. The SUMMARY screen will display fields that are common among all connection types. The IPIC and EXCI screens will display fields that are only specific to IPIC and EXCI connections, respectively. Line commands are available from the SUMMARY and IPIC screens to start and stop IPIC connections. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. The CTGSRVR command supports displaying CICS server connections for one or more CTG instances in the same system and multiple systems (XSYSTEM). 6. New CTGLSRVR command. The CTGLSRVR command lists logical servers defined by each CTG instance. Logical server statistics and configuration information like request counts and CICS servers that the logical server connection is mapped to are displayed. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. The CTGLSRVR command supports displaying logical servers for one or more CTG instances in the same system and multiple systems (XSYSTEM). 7. New CTGWEBSV command. The CTGWEBSV command lists web services defined by each CTG instance. Statistics and configuration information are displayed for each web service such as request counts, average response times, web service URI, etc. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. The CTGWEBSV command supports displaying web services for one or more

Service	Details
	CTG instances in the same system and multiple systems (XSYSTEM). 8. New security command groups. Two new security command groups were added: GSVCTG and GSVCTGA. All of the new CTG commands are included in GSVCTG. Only CTGSET is included in GSVCTGA as CTGSET allows you to alter CTG resources. 9. New help topic describing CTG SMF records. A new "CICS Transaction Gateway SMF Records" help topic was added to the TOPICS command. The topic describes the CTG type 111 SMF record, how to configure the CTG instance to write SMF records, how to determine if they are being logged, and where they can be viewed. This information can also be found in the SYSVIEW Tech Docs Portal page titled "CICS Transaction Gateway SMF Records" under the "Online Help Topics" section. 10. New CTGLOG command. The CTGLOG command displays a log of CTG SMF type 111 records. These records contain information over a statistics interval, as defined in the CTG instance. Statistics are displayed for each record such as date, time, request counts, average response times, etc. Each record can be drilled down into to see a greater level of detailed data. The CTGLOG command uses an SMF log stream as its source of SMF records. More information on the logging and viewing of CTG SMF records can be found in SYSVIEW under the TOPICS command, with the topic titled "CICS Transaction Gateway SMF Records". 11. Enhanced SMF type 111 record formatter. The formatter used to display CTG SMF type 111 records in a formatted report was enhanced. The formatter was enhanced to display new fields and sections added to the SMF 111 record, along with overall formatting changes including adding a table of contents. A Select line command on the CTGLOG command will invoke the SMF 111 record formatter for the selected record. 12. New CICSTG Address Space Identifier Type (ASIType). A new ASIType was added to allow various CA SYSVIEW commands to easily identify CTG daemons running in a remote mode topology on z/OS. A new CICSTG ASIType appears in the ASIType columns on ASLIST and ACTIVITY when a CTG was identified. 13. New CTG menu. A new CTG menu was added. The menu is found under the CICS menu and contains a new submenu for CTG called CTG. The new menu can be accessed directly by issuing MENU CTG. 14. New CTGMODIF menu. A new CTGMODIF menu was added. The menu is found under the CTG menu and contains a new submenu for MVS modify commands that can be issued against CTG instances. The new menu can be accessed directly by issuing MENU CTGMODIF. 15. Updated SYSTEMS and CMDACT displays A new "CTG" field was added to the SYSTEMS and CMDACT displays. The "CTG" field on SYSTEMS shows the status of the CA SYSVIEW for CTG component. The "CTG" field on CMDACT shows the total number of CTG commands that have been issued in the past 24 hours. Unrelated to CTG, but included in this PTF are the following: 1. New address space context variables and fields. Two new CA SYSVIEW substitution variables were added: G$CASIType and G$CASISubType. These variables contain the current target address space type and subtype, respectively.

Service	Details
	Four new fields were added to the context section of a CA SYSVIEW REST API response: currentAsiType, currentAsiSubType, currentTCB, and currentProcessId. The currentAsiType and currentAsiSubType fields contain the current target address space type and subtype, respectively. The currentTCB and currentProcessId fields contain the current target TCB and PID, respectively. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13447 Copyright (C) 2021 CA. All rights reserved. R00192-NM4160-SP0 DESC(NEW CICS TRANSACTION GATEWAY MONITORING). ++VER (Z038) FMID (CNM4G00) PRE (LU00517 LU00548 LU00595 LU00630 LU00849 SO08681 SO08743 SO08793 SO09059 SO09589 SO10098 SO10197 SO10269 SO10316 SO10497 SO10680 SO10853 SO11028 SO11632 SO11642 SO11865 SO11875 SO12125 SO12200 SO12347 SO12629 SO12721 SO12816 SO12880 SO13187 SO13240 SO13538 SO13792 SO13989 SO14004 SO14411 SO14533 SO14894 SO15081 SO15210 SO15546 SO15790 SO16018 SO16108 SO16292) SUP (AS10269 LT00951 SO10209 SO10411 SO14740 SO16215 ST10209 ST10411 ST14740 ST16215) ++HOLD (LU00951) SYSTEM FMID(CNM4G00) REASON (ACTION) DATE (21111) 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. After applying this PTF, the JVM data collector agent run-time binaries will need to be deployed to your site's run-time environment, followed by a stop and start of your JVMs. Finally, several configuration items need to be done in order to enable CICS Transaction Gateway monitoring, including a new "Component-CTG" System Configuration Option.

Service	Details
	1. Apply the PTF. 2. Deploy the PTF to your run-time libraries. 3. Stop the SYSVIEW STCs, GSSA, and any user sessions. ** If you do not use the JVM component then you can skip to step 11. 4. Deploy the agent run-time from the SMP/E managed directory "../cnm4g00/CNM4JVMD/" (DDDEF CNM4JVMD) to the run-time directory "../cnm4g00/runtime/". The deploy can be performed by running the sysviewhlq.SAMPJCL(INST0006) install job. 5. Stop the JVMs configured to run the agent. ** If you do not intend to use the CTG component then you can skip to step 10. 6. Update the System Configuration Options member to include the "Component-CTG" option set to "YES". The default is "NO". 7. Add the USS path to the CA SYSVIEW JVM Data Collector Agent to the CTG daemon. More information on locating the JVM agent USS path can be found in the SYSVIEW TechDocs Portal page titled "Create Run-Time USS Directory for the JVM Data Collector Agent (INST0006)". More information on how to add the path to the agent in the CTG daemon can be found in the SYSVIEW TechDocs Portal page titled "Configure the JVM Data Collector Agent". 8. Pass the "monctg" option to the JVM agent to enable CTG monitoring in the JVM. More information on the "monctg" option can be found in the SYSVIEW TechDocs Portal page titled "Options for the JVM Data Collector Agent". 9. Configure a log stream to store SMF type 111 records written by CTG daemons. For more information on how to log and view these SMF records in SYSVIEW, view the page titled "CICS Transaction Gateway SMF Records" in the SYSVIEW TechDocs Portal page. 10. Start the JVMs configured to run the agent. 11. Run Security Conversion JCL contained in CNM4BSAM member GSVUCSEC. 12. Start the SYSVIEW STCs, GSSA, and any user sessions. Notes: 1. It is not required to immediately stop and start your JVMs to pick up the updated JVM data collector agent. A back-level agent will continue to communicate with a higher level SYSVIEW STC. It is recommended to keep the agent in sync with the SYSVIEW STC so the latest features and bug fixes are active in the agent. 2. The following SYSVIEW commands can be used to identify JVMs configured to run an agent that are currently running on a system: JVMARGS SYSTEM ; SELECT ARGUMENT CN -AGENTPATH Ensure all run-time directories are updated with the new binaries.). ++HOLD (LU00951) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21111) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | Describe the new features | +----------+----------+ |USERS | | |AFFECTED | All users of SYSVIEW |

Service	Details
	+----------+--+ |KNOWLEDGE | | |REQUIRED | Product administration | +----------+--+ |ACCESS | | |REQUIRED | Product libraries | +----------+--+ ********** * STEPS TO PERFORM * ********** ENHANCEMENT DESCRIPTION: This feature PTF contains the following enhancements in support of monitoring IBM CICS Transaction Gateway (CTG) for z/OS. CA SYSVIEW only supports monitoring CTG servers that are deployed in a remote mode topology, where the CTG daemon runs on z/OS. CA SYSVIEW supports CTG v9.1.0 and higher. 1. New CTG System Configuration Option. A new "Component-CTG" option was added to the System Configuration Options member. This option controls whether the CA SYSVIEW for CTG monitoring component is enabled. The CTG monitoring delivered in this feature PTF is included with the CA SYSVIEW Option for CICS license. However, the "Option-CICS" System Configuration Option is not required to be enabled for the CTG monitoring to function. In addition, CA SYSVIEW uses its JVM Data Collector Agent technology to monitor CTG instances. The "Component-JVM" System Configuration Option must be enabled. 2. Enhanced JVM Data Collector Agent. The JVM Data Collector Agent was enhanced to monitor CTG. The agent is required to be configured in each CTG instance that is to be monitored. Once the agent is configured, CA SYSVIEW can display data about the monitored CTG instance on several new displays. More information on configuring the JVM Data Collector Agent in CTG instances can be found in the SYSVIEW Tech Docs Portal page titled "Configure the JVM Data Collector Agent" under the "JVM Data Collection" section. A new option named "monctg" can be specified when configuring the JVM Data Collector Agent. This option controls whether CA SYSVIEW's JVM Data Collector Agent will provide real-time CTG statistics. If the option is disabled, CA SYSVIEW's general JVM monitoring will still be available. More information on the new option can be found in the SYSVIEW Tech Docs Portal page titled "Options for the JVM Data Collector Agent" under the "JVM Data Collection" section. 3. New CTGLIST command. The CTGLIST command dynamically discovers all CTG daemons running in a remote mode topology on z/OS systems and displays them in a list. The command shows server performance information for each CTG instance. In addition, high-level CTG configuration information is displayed. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics

Service	Details
	interval as defined by the CTG instance. Line commands are available to navigate to other CTG displays and take actions against the CTG instance. For example, resetting the health value, enabling and disabling request monitoring exits, and shutting down the CTG instance. The CTGLIST command supports displaying one or more CTG instances in the same system and multiple systems (XSYSTEM). 4. New CTGSET command. The CTGSET command is a function command that performs administrative functions on a given CTG instance. For example, the CTGSET command can start and stop IPIC connections to CICS servers, reset the health of the CTG instance, and modify the trace level inside the CTG instance. The CTGSET command supports performing functions on one or more CTG instances in the same system and multiple systems (XSYSTEM). 5. New CTGSRVR command. The CTGSRVR command lists all CICS server connections defined and in use by each CTG instance. Statistics are displayed for each connection such as request counts, average response times, and connection failures. The CTGSRVR command has three different screens: SUMMARY, IPIC, and EXCI. These screens contain fields specific to the connection type specified. The SUMMARY screen will display fields that are common among all connection types. The IPIC and EXCI screens will display fields that are only specific to IPIC and EXCI connections, respectively. Line commands are available from the SUMMARY and IPIC screens to start and stop IPIC connections. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. The CTGSRVR command supports displaying CICS server connections for one or more CTG instances in the same system and multiple systems (XSYSTEM). 6. New CTGLSRVR command. The CTGLSRVR command lists logical servers defined by each CTG instance. Logical server statistics and configuration information like request counts and CICS servers that the logical server connection is mapped to are displayed. Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. The CTGLSRVR command supports displaying logical servers for one or more CTG instances in the same system and multiple systems (XSYSTEM). 7. New CTGWEBSV command. The CTGWEBSV command lists web services defined by each CTG instance. Statistics and configuration information are displayed for each web service such as request counts, average response times, web service URI, etc.

Service	Details
	Some of the fields on this display can be viewed from a TOTAL or INTERVAL perspective, where the field contains the value over the time range specified; TOTAL means the field will contain the value calculated since the CTG instance was initialized, while INTERVAL means the field will contain the value for the current statistics interval as defined by the CTG instance. The CTGWEBSV command supports displaying web services for one or more CTG instances in the same system and multiple systems (XSYSTEM). 8. New security command groups. Two new security command groups were added: GSVCTG and GSVCTGA. All of the new CTG commands are included in GSVCTG. Only CTGSET is included in GSVCTGA as CTGSET allows you to alter CTG resources. 9. New help topic describing CTG SMF records. A new "CICS Transaction Gateway SMF Records" help topic was added to the TOPICS command. The topic describes the CTG type 111 SMF record, how to configure the CTG instance to write SMF records, how to determine if they are being logged, and where they can be viewed. This information can also be found in the SYSVIEW Tech Docs Portal page titled "CICS Transaction Gateway SMF Records" under the "Online Help Topics" section. 10. New CTGLOG command. The CTGLOG command displays a log of CTG SMF type 111 records. These records contain information over a statistics interval, as defined in the CTG instance. Statistics are displayed for each record such as date, time, request counts, average response times, etc. Each record can be drilled down into to see a greater level of detailed data. The CTGLOG command uses an SMF log stream as its source of SMF records. More information on the logging and viewing of CTG SMF records can be found in SYSVIEW under the TOPICS command, with the topic titled "CICS Transaction Gateway SMF Records". 11. Enhanced SMF type 111 record formatter. The formatter used to display CTG SMF type 111 records in a formatted report was enhanced. The formatter was enhanced to display new fields and sections added to the SMF 111 record, along with overall formatting changes including adding a table of contents. A Select line command on the CTGLOG command will invoke the SMF 111 record formatter for the selected record. 12. New CICSTG Address Space Identifier Type (ASIType). A new ASIType was added to allow various CA SYSVIEW commands to easily identify CTG daemons running in a remote mode topology on z/OS. A new CICSTG ASIType appears in the ASIType columns on ASLIST and ACTIVITY when a CTG was identified. 13. New CTG menu. A new CTG menu was added. The menu is found under the CICS menu and contains a new submenu for CTG called CTG. The new menu can be accessed directly by issuing MENU CTG. 14. New CTGMODIF menu. A new CTGMODIF menu was added. The menu is found under the CTG menu and contains a new submenu for MVS modify commands that can be issued against CTG instances. The new menu can be accessed directly by issuing MENU CTGMODIF. 15. Updated SYSTEMS and CMDACT displays A new "CTG" field was added to the SYSTEMS and CMDACT displays. The "CTG" field on SYSTEMS shows the status of the CA SYSVIEW for CTG

Service	Details
	component. The "CTG" field on CMDACT shows the total number of CTG commands that have been issued in the past 24 hours. Unrelated to CTG, but included in this PTF are the following: 1. New address space context variables and fields. Two new CA SYSVIEW substitution variables were added: G$CASIType and G$CASISubType. These variables contain the current target address space type and subtype, respectively. Four new fields were added to the context section of a CA SYSVIEW REST API response: currentAsiType, currentAsiSubType, currentTCB, and currentProcessId. The currentAsiType and currentAsiSubType fields contain the current target address space type and subtype, respectively. The currentTCB and currentProcessId fields contain the current target TCB and PID, respectively.).

Service	Details
LU00958	LU00958 M.C.S. ENTRIES = ++PTF (LU00958) UPDATED Z/OSMF CONFIGURATION WORKFLOWS ENHANCEMENT DESCRIPTION: This feature PTF contains the following enhancements to CA SYSVIEW z/OSMF configuration workflows: 1. Workflows have been updated to no longer require a template repository for registering product templates. This aligns with how other Broadcom Mainframe products are delivering configuration workflows. 2. All installation scenarios (upgrade or new install) have been consolidated into a single workflow, where upgrade steps will be skipped for a new install. 3. Additional product variables have been added to provide more flexibility in customizing the configuration. 4. Sample RACF, TSS, and ACF2 security definitions for all the started tasks are provided to facilitate new installs. PRODUCT(S) AFFECTED: CA SYSVIEW Release 16.0 Related Problem: SYSVW 2524 Copyright (C) 2021 CA. All rights reserved. R00193-NM4160-SP0 DESC(UPDATED Z/OSMF CONFIGURATION WORKFLOWS). ++VER (Z038) FMID (CNM4G00) PRE (LU00951 SO09059 SO10098 SO10316 SO10853 SO14533 SO15210) SUP (LT00958 ST13885) ++HOLD (LU00958) SYSTEM FMID(CNM4G00) REASON (DOC) DATE (21113) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+ ********** * PUBLICATION * ********** This enhancement replaces existing z/OSMF configuration workflows. Please refer to the product installation documentation for details.).

Service	Details
LU01005	LU01005 M.C.S. ENTRIES = ++PTF (LU01005) NEW COMMAND FORMATS MISSING FROM DEFAULT PROFILE PROBLEM DESCRIPTION: Command formats are used within CA SYSVIEW to control what fields get displayed on commands. These formats are stored within CA SYSVIEW profiles. Formats that are shipped with CA SYSVIEW are stored in the DEFAULT profile. Command formats that have been shipped since the initial release of CA SYSVIEW 16.0 are erroneously missing from the DEFAULT profile. This fix will correct the behavior and the formats will be available from the DEFAULT profile. SYMPTOMS: Formats are missing from the following commands: - CDATATbl - CTGList - CTGLOG - FXE - ZCNAPIs - ZCNList - ZCNRLOG - ZCNSERV - ZCNSOR - ZCNURIs - ZCXList IMPACT: Only the DEFAULT format exists for each command. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13493 Copyright (C) 2021 CA. All rights reserved. R00194-NM4160-SP0 DESC(NEW COMMAND FORMATS MISSING FROM DEFAULT PROFILE). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 LU00630 LU00951 SO09059 SO09589 SO10316 SO11028 SO11875 SO13538 SO14533 SO14894 SO15081 SO15210 SO16018 SO16108 SO16292) SUP (LT01005)

Service	Details
LU01050	LU01050 M.C.S. ENTRIES = ++PTF (LU01050) IKJEFT01 RETURN CODE 19 USING CSVGEN WITH REPORT WRITER PROBLEM DESCRIPTION: Running the CSVGEN utility to convert Report Writer output to a CSV format may result in a RC=19 if any of the reporting fields exceed a length of 132 columns. This includes fields that may be combined using the DEFINE ID to create a new ID option. SYMPTOMS: Running IKJEFT01 with CSVGEN utility results in a RC=19 and message 'Delimiter was not found where expected'. IMPACT: CSV report format is not produced as a result of the RC=19. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Explore Report Writer Release 15.0 CA Explore Report Writer Release 16.0 Related Problem: EXPRTO 13454 Copyright (C) 2021 CA. All rights reserved. R00195-NM4160-SP0 DESC(IKJEFT01 RETURN CODE 19 USING CSVGEN WITH REPORT WRITER). ++VER (Z038) FMID (CNM4G00) PRE (LU00849) SUP (LT01050)

Service	Details
LU01064	LU01064 M.C.S. ENTRIES = ++PTF (LU01064) IBM MQ COMMAND STANDARDIZATION ENHANCEMENT DESCRIPTION: This feature PTF contains the following enhancements to the CA SYSVIEW Option for IBM MQ in an ongoing effort to standardize all CA SYSVIEW IBM MQ commands to have a consistent functionality. 1. IBM MQ command standardization. Several commands in the CA SYSVIEW Option for IBM MQ have been enhanced to have a standardized set of functionality, similar to the CA SYSVIEW Option for IBM CICS. The updates include: * Command modes SYSTEM and XSYSTEM were added to commands that previously did not support these modes. * Command groups OBJGROUP, GROUP, and XSGROUP were added to commands that previously did not support these groups. The following commands were enhanced with one or more of the above updates: MQBUFFER, MQCFBACK, MQCFCONN, MQCFSMCO, MQCFSMDS, MQCFSTRU, MQCFSUMM, MQCHAN, MQCHAUTH, MQCHSTAT, MQLIST, MQLOGS, MQPAGE, MQPARMS, MQPROC, MQPUBSUB, MQQLOCAL, MQQPERF, MQQUEUE, MQQUSERS, MQRSTAT, MQSBSTAT, MQSTGCL, MQTUSERS, MQUSERS For a complete list of updates for each command, see the "IBM MQ Commands" page under the "Release Notes" section on the CA SYSVIEW TechDocs Portal at: https://techdocs.broadcom.com/sysview 2. IBM MQ security standardization. Update actions in the form of subcommands, line commands, and input field changes now invoke MQSSET instead of invoking MQSC commands directly. The MQSSET command performs the updates using MQSC commands. MQSC commands might have limited access to prevent users from making updates to objects. Access can now be given to use those IBM MQ commands, and security for updates can be implemented by securing access to the MQSSET command. Each MQSSET subcommand corresponds to an MQ object type. For example, when the display is showing PROCESS objects, you can secure the MQSSET PROCESS subcommand to prevent updates to all PROCESS objects. Note only the commands in the prior "IBM MQ command standardization" section were updated to use MQSSET. Other CA SYSVIEW IBM MQ commands not mentioned that can alter IBM MQ still issue MQSC commands directly. 3. New IBM MQ profile general keywords. The following profile general keywords were added to alter the default behavior of SYSVIEW IBM MQ commands: Keyword Description -------- -- MQGROUP Specifies the default MQ logical group name MQMODE Specifies the MQ display mode 4. New and enhanced MQ logical groups on the GROUPS command. The following CA SYSVIEW MQ related logical groups have been added or enhanced: * Added MQPROC logical group to specify a group of IBM MQ processes. * Updated MQBPOOL logical group to accept a QMGR instance. * Updated MQCHAN logical group to accept a QMGR instance.

Service	Details
	* Updated MQCHAN logical group to allow member exclusion. * Updated MQPSET logical group to accept a QMGR instance. * Updated MQQUEUE logical group to accept a QMGR instance. * Updated MQQUEUE logical group to allow member exclusion. All of the above updates to logical groups can be specified in the GROUPS parmlib member in addition to the GROUPS command. The MQSSET command was updated to accept all new group updates. 5. Enhanced MQSSET command. The MQSSET command was enhanced with the following changes: * Multiple parameters can be altered in a single command invocation. New ALTSTART and ALTEND keywords were added to the command to signal the start and end of multiple keyword value pair parameters. * A LOG DEFINE parameter was added to define new logs. * A CFSTRUCT RESET parameter was added to reset the coupling facility structure status. 6. Enhanced commands with new CERTLABL field. The following commands were enhanced to display a new CERTLABL field that shows the certificate label of the channel definition: MQCHAN, MQCHCRCV, MQCHCSND, MQCHRCV, MQCHRQSR, MQCHSCON, MQCHSNDR, MQCHSRVR, MQALTER, MQDEFINE 7. The following commands were enhanced to display a new STATCHL field that shows whether statistics data is to be collected for the channel: MQCHAN, MQCHCRCV, MQCHCSND, MQCHRCV, MQCHRQSR, MQCHSNDR, MQCHSRVR, MQALTER, MQDEFINE 8. The following commands were enhanced to display a new SPLPROT field that shows the security policy protection: MQCHAN, MQCHRCV, MQCHRQSR, MQCHSNDR, MQCHSRVR, MQALTER, MQDEFINE 9. Enhanced MQALTER and MQMGR commands with new fields. The MQALTER and MQMGR commands were enhanced to display the following fields: Field Description -------- ---------- CertLabl Certificate label CertQSGL QSG certificate label ConnAuth Connection Authorization StatACls Statistics - auto CLUSDR StatChl Statistics - channel 10. Enhanced MQBUFFER command with new fields. The MQBUFFER command was enhanced to display the following fields: Field Description -------- ---------- PageClas Displays the size of the buffer LPageCls Displays the original value of the PageClas PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13496 Copyright (C) 2021 CA. All rights reserved. R00196-NM4160-SP0 DESC(IBM MQ COMMAND STANDARDIZATION). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 LU00630 LU00951 LU01005 SO08681 SO08743

Service	Details
	SO08793 SO09059 SO09589 SO09844 SO10098 SO10316 SO10497 SO10680 SO10853 SO11028 SO11122 SO11361 SO11642 SO11865 SO11875 SO12050 SO12125 SO12629 SO12816 SO13116 SO13538 SO14533 SO14894 SO15081 SO15210 SO15546 SO16018 SO16069 SO16108 SO16292) SUP (AC08481 AS11361 LT01064 SO08459 SO12474 SO14363 SO15053 ST08459 ST12474 ST14363 ST15053) ++HOLD (LU01064) SYSTEM FMID(CNM4G00) REASON (ACTION) DATE (21116) 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 * ********** * - ** 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 (LU01064) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21116) 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 |

Service	Details
	+----------+--+ |ACCESS | | |REQUIRED | Product libraries | +----------+--+ ********** * STEPS TO PERFORM * ********** ENHANCEMENT DESCRIPTION: This feature PTF contains the following enhancements to the CA SYSVIEW Option for IBM MQ in an ongoing effort to standardize all CA SYSVIEW IBM MQ commands to have a consistent functionality. 1. IBM MQ command standardization. Several commands in the CA SYSVIEW Option for IBM MQ have been enhanced to have a standardized set of functionality, similar to the CA SYSVIEW Option for IBM CICS. The updates include: * Command modes SYSTEM and XSYSTEM were added to commands that previously did not support these modes. * Command groups OBJGROUP, GROUP, and XSGROUP were added to commands that previously did not support these groups. The following commands were enhanced with one or more of the above updates: MQBUFFER, MQCFBACK, MQCFCONN, MQCFSMCO, MQCFSMDS, MQCFSTRU, MQCFSUMM, MQCHAN, MQCHAUTH, MQCHSTAT, MQLIST, MQLOGS, MQPAGE, MQPARMS, MQPROC, MQPUBSUB, MQQLOCAL, MQQPERF, MQQUEUE, MQQUSERS, MQRSTAT, MQSBSTAT, MQSTGCL, MQTUSERS, MQUSERS For a complete list of updates for each command, see the "IBM MQ Commands" page under the "Release Notes" section on the CA SYSVIEW TechDocs Portal at: https://techdocs.broadcom.com/sysview 2. IBM MQ security standardization. Update actions in the form of subcommands, line commands, and input field changes now invoke MQSSET instead of invoking MQSC commands directly. The MQSSET command performs the updates using MQSC commands. MQSC commands might have limited access to prevent users from making updates to objects. Access can now be given to use those IBM MQ commands, and security for updates can be implemented by securing access to the MQSSET command. Each MQSSET subcommand corresponds to an MQ object type. For example, when the display is showing PROCESS objects, you can secure the MQSSET PROCESS subcommand to prevent updates to all PROCESS objects. Note only the commands in the prior "IBM MQ command standardization" section were updated to use MQSSET. Other CA SYSVIEW IBM MQ commands not mentioned that can alter IBM MQ still issue MQSC commands directly. 3. New IBM MQ profile general keywords. The following profile general keywords were added to alter the default behavior of SYSVIEW IBM MQ commands: Keyword Description -------- ---------- MQGROUP Specifies the default MQ logical group name MQMODE Specifies the MQ display mode 4. New and enhanced MQ logical groups on the GROUPS command. The following CA SYSVIEW MQ related logical groups have been added or

Service	Details
	enhanced: * Added MQPROC logical group to specify a group of IBM MQ processes. * Updated MQBPOOL logical group to accept a QMGR instance. * Updated MQCHAN logical group to accept a QMGR instance. * Updated MQCHAN logical group to allow member exclusion. * Updated MQPSET logical group to accept a QMGR instance. * Updated MQQUEUE logical group to accept a QMGR instance. * Updated MQQUEUE logical group to allow member exclusion. All of the above updates to logical groups can be specified in the GROUPS parmlib member in addition to the GROUPS command. The MQSSET command was updated to accept all new group updates. 5. Enhanced MQSSET command. The MQSSET command was enhanced with the following changes: * Multiple parameters can be altered in a single command invocation. New ALTSTART and ALTEND keywords were added to the command to signal the start and end of multiple keyword value pair parameters. * A LOG DEFINE parameter was added to define new logs. * A CFSTRUCT RESET parameter was added to reset the coupling facility structure status. 6. Enhanced commands with new CERTLABL field. The following commands were enhanced to display a new CERTLABL field that shows the certificate label of the channel definition: MQCHAN, MQCHCRCV, MQCHCSND, MQCHRCV, MQCHRQSR, MQCHSCON, MQCHSNDR, MQCHSRVR, MQALTER, MQDEFINE 7. The following commands were enhanced to display a new STATCHL field that shows whether statistics data is to be collected for the channel: MQCHAN, MQCHCRCV, MQCHCSND, MQCHRCV, MQCHRQSR, MQCHSNDR, MQCHSRVR, MQALTER, MQDEFINE 8. The following commands were enhanced to display a new SPLPROT field that shows the security policy protection: MQCHAN, MQCHRCV, MQCHRQSR, MQCHSNDR, MQCHSRVR, MQALTER, MQDEFINE 9. Enhanced MQALTER and MQMGR commands with new fields. The MQALTER and MQMGR commands were enhanced to display the following fields: Field Description -------- ---------- CertLabl Certificate label CertQSGL QSG certificate label ConnAuth Connection Authorization StatACls Statistics - auto CLUSDR StatChl Statistics - channel 10. Enhanced MQBUFFER command with new fields. The MQBUFFER command was enhanced to display the following fields: Field Description -------- ---------- PageClas Displays the size of the buffer LPageCls Displays the original value of the PageClas).

Service	Details
LU01071	LU01071 M.C.S. ENTRIES = ++PTF (LU01071) SECU016E INCORRECT JOBNAME SECURITY CALLS PROBLEM DESCRIPTION: A number of CA SYSVIEW commands display information that is specific to an address space. CA SYSVIEW provides security that can be configured to control whether information should be displayed for a given jobname. Several commands that do not display address space specific information erroneously make CA SYSVIEW jobname security calls. Inversely, several commands that do display address space specific information are not making the CA SYSVIEW jobname security calls. SYMPTOMS: If security has been configured in the Jobnames Section to restrict displaying 'Private region info' for a given jobname, the message 'SECU016E Command not authorized for jobname <jobname>' may incorrectly appear on the following commands if the current target address space is a restricted job: JVMDMON PROCINFO XDIUSERS ZCNLIST ZCXLIST Only the following command is impacted in CA SYSVIEW 15.0: JVMDMON If security has been configured to restrict displaying 'Private region info' for a given jobname, jobname security is not checked in the following commands: CTGLSRVR CTGSRVR CTGWEBSV ZCXCPU ZCXDISK IMPACT: Unexpected restriction or access to address space specific information. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13453 Copyright (C) 2021 CA. All rights reserved. R00197-NM4160-SP0 DESC(SECU016E INCORRECT JOBNAME SECURITY CALLS). ++VER (Z038) FMID (CNM4G00) PRE (LU00517 LU00527 LU00548 LU00951 SO09059 SO09589 SO10098 SO10197 SO10316 SO10497 SO11875 SO13989 SO14533 SO15081 SO16018) SUP (LT01071)

Service	Details
LU01098	LU01098 M.C.S. ENTRIES = ++PTF (LU01098) LGLOGS INCORRECT STATUS FOR DSLB LOG STREAMS PROBLEM DESCRIPTION: The LGLOGS command has a field named Status that displays the status of a given log stream. The status of log streams that have been defined to CA SYSVIEW's Dynamic SMF Log Stream Browsing (DSLB) component are not accurately reflected on LGLOGS. SYMPTOMS: Log streams displayed on the LGLOGS command that were defined to CA SYSVIEW's Dynamic SMF Log Stream Browsing component will have a blank value in the Status field. IMPACT: Unable to determine the status of a log stream defined to DSLB on the LGLOGS command. CIRCUMVENTION: View the status of the log stream on the DSMFLOGS command. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13515 Copyright (C) 2021 CA. All rights reserved. R00199-NM4160-SP0 DESC(LGLOGS INCORRECT STATUS FOR DSLB LOG STREAMS). ++VER (Z038) FMID (CNM4G00) PRE (LU00951 SO10098 SO16108) SUP (LT01098)

Service	Details
LU01112	LU01112 M.C.S. ENTRIES = ++PTF (LU01112) CONFIGURATION MODULE MISMATCH FOR JES2 2.3 AND 2.4 PROBLEM DESCRIPTION: JES2 service level mismatch occurs when IBM JES2 OA58722 is applied. IBM APAR OA58722 resulted in the following new JES2 service levels: JES2 2.3 service level 5 JES2 2.4 service level 3 SYMPTOMS: The following messages appear in the SYSVIEW joblog: GSV3711I (MAIN) JES2 services initialization started GSV3717I (MAIN) Checking for JES configuration module GSVBJ235 GSV3717I (MAIN) Checking for JES configuration module GSVBJ234 GSV3774I (MAIN) Using JES configuration module GSVBJ234, service level 4 GSV3712I (MAIN) JES2 services initialization ended or GSV3711I (MAIN) JES2 services initialization started GSV3717I (MAIN) Checking for JES configuration module GSVBJ243 GSV3717I (MAIN) Checking for JES configuration module GSVBJ242 GSV3774I (MAIN) Using JES configuration module GSVBJ242, service level 2 GSV3712I (MAIN) JES2 services initialization ended The following appears on the STATUS display: JES2 2.3 (service level mismatch, expected 5 found 4) or JES2 2.4 (service level mismatch, expected 3 found 2) IMPACT: No known problems have been reported as a result of this condition. CIRCUMVENTION: Message can be resolved by applying USERMOD in sysview.SAMPJCL(USRM0004) until the resolving PTF is available and applied. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13555 Copyright (C) 2021 CA. All rights reserved. R00200-NM4160-SP0 DESC(CONFIGURATION MODULE MISMATCH FOR JES2 2.3 AND 2.4). ++VER (Z038) FMID (CNM4G00) SUP (LT01112) ++HOLD (LU01112) SYSTEM FMID(CNM4G00) REASON (ACTION) DATE (21118) COMMENT (+----------+ | CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | Before Apply | +----------+----------+ |PURPOSE | To implement the fix. | | | | | | This fix adds new GSVBJ235 and GSVBJ243 JES2 offsets | | | table configuration modules which may have already been | | | created with the USRM0004 job (USERMOD GSVG004) in |

Service	Details
	| | sysviewhlq.SAMPJCL. Before applying this fix, determine | | | if GSVG004 has been applied. | | | | +----------+----------+ |USERS | Users of JES2 | |AFFECTED | | +----------+----------+ |KNOWLEDGE | Product administration. | |REQUIRED | | +----------+----------+ |ACCESS | Product libraries. | |REQUIRED | | +----------+----------+ ********** * STEPS TO PERFORM * ********** If GSVG004 is not applied then this HOLD can be ignored. If GSVG004 is applied then follow these steps to remove the USERMOD as it will no longer be needed: 1. Restore USERMOD GSVG004 from the TARGET zone. 2. Reject USERMOD GSVG004 from the GLOBAL zone. 3. Apply this fix.).

Product Family	Product	Release
Systems Management	CA SYSVIEW PERFORMANCE MANAGEMENT	16.00.00

The CA RS 2105 Product/Component Count for this release is 1

CA RS Level	Service	FMID
CAR2105	LU01112	CNM4G00
	LU01098	CNM4G00
	LU01071	CNM4G00
	LU01064	CNM4G00
	LU01050	CNM4G00
	LU01005	CNM4G00
	LU00958	CNM4G00
	LU00951	CNM4G00
	LU00933	CNM4G00
	LU00919	CNM4G00
	LU00894	CNM4G00
	LU00849	CNM4G00
	LU00838	CNM4G00
	LU00806	CNM4G00
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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	SO08485	CNM4G00
	SO08459	CNM4G00
	SO08228	CNM4G00