Service	Description	Type
LU02544	INCORRECT JESCMD VALUE AND LINE COMMAND VERIFY ON JPLEX	PTF
LU02890	JVM ASITYPE NOT IDENTIFIED IF SYSVIEW STARTED AFTER	PTF
LU03115	INCORRECT ASIFREE METRIC VALUE	PTF
LU03277	ZCNSET PROVIDER FLUSH NULLPOINTEREXCEPTION	PTF
LU03359	NEW ALERT CENTRAL INTEGRATION	PTF
LU03433	CICS TS 6.1 ETP17 OPEN BETA SUPPORT	PTF
LU03469	ABEND S0C4 IEFQBSVA DURING SYSVIEW INITIALIZATION	PTF
LU03480	IMSTRACE ABEND S0C4-04 IN NUCMOD GSVPIMSR ROUTINE CTRB$$	PTF
LU03526	DATACOM OPTION COMMAND UPDATES AND NEW FIELDS	PTF
LU03529	AVAILABLE FRAME QUEUE AVERAGE (AFQA) MAY BE LOW	PTF
LU03533	CPROGRAM DD LINE CMD MAY NOT FIND PROGRAM	PTF
LU03616	UPDATE REASON CODES FOR CCS DATA MOVER ERRORS	PTF
LU03689	Z/OS CONNECT V3.0.45 SUPPORT - SMF 123 SUBTYPE 2 FORMATTER	PTF

The CA RS 2112 service count for this release is 13

FMID	Service	Description	Type
CNM4G00	LU02544	INCORRECT JESCMD VALUE AND LINE COMMAND VERIFY ON JPLEX	PTF
	LU02890	JVM ASITYPE NOT IDENTIFIED IF SYSVIEW STARTED AFTER	PTF
	LU03115	INCORRECT ASIFREE METRIC VALUE	PTF
	LU03277	ZCNSET PROVIDER FLUSH NULLPOINTEREXCEPTION	PTF
	LU03359	NEW ALERT CENTRAL INTEGRATION	PTF
	LU03433	CICS TS 6.1 ETP17 OPEN BETA SUPPORT	PTF
	LU03469	ABEND S0C4 IEFQBSVA DURING SYSVIEW INITIALIZATION	PTF
	LU03480	IMSTRACE ABEND S0C4-04 IN NUCMOD GSVPIMSR ROUTINE CTRB$$	PTF
	LU03526	DATACOM OPTION COMMAND UPDATES AND NEW FIELDS	PTF
	LU03529	AVAILABLE FRAME QUEUE AVERAGE (AFQA) MAY BE LOW	PTF
	LU03533	CPROGRAM DD LINE CMD MAY NOT FIND PROGRAM	PTF
	LU03616	UPDATE REASON CODES FOR CCS DATA MOVER ERRORS	PTF
	LU03689	Z/OS CONNECT V3.0.45 SUPPORT - SMF 123 SUBTYPE 2 FORMATTER	PTF
The CA RS 2112 service count for this FMID is 13			

Service	Details
LU02544	LU02544 M.C.S. ENTRIES = ++PTF (LU02544) INCORRECT JESCMD VALUE AND LINE COMMAND VERIFY ON JPLEX PROBLEM DESCRIPTION: When issuing $P or $PXEQ, the JPLEX display should show the currently active JES command in the JESCmd column. Currently the display may show $PXEQ even when $P was issued. When executing line commands from JPLEX, like 'P', and confirmation is turned on, an 'S' replaces the 'P'. This is deceiving because the 'S' represents STOP rather than START. SYMPTOMS: If $P is issued, JPLEX will show $PQEX as the command in progress. If $PQEX is issued then JPLEX will show $P as the command in progress. When line command 'P' is issued and confirmation is turned on, it is a bit misleading when an 'S' replaces the 'P' in the line command column. IMPACT: Incorrect value shown for JEScmd column. Misleading 'S' in line command row even though a 'P' was issued. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 14618 Copyright (C) 2021 CA. All rights reserved. R00232-NM4160-SP0 DESC(INCORRECT JESCMD VALUE AND LINE COMMAND VERIFY ON JPLEX). ++VER (Z038) FMID (CNM4G00) PRE (LU02191 LU03050 LU03135 SO10497 SO12125 SO13927 SO14533) SUP (LT02544)

Service	Details
LU02890	LU02890 M.C.S. ENTRIES = ++PTF (LU02890) JVM ASITYPE NOT IDENTIFIED IF SYSVIEW STARTED AFTER PROBLEM DESCRIPTION: SYSVIEW attempts to identify active JVM address spaces with detail about the type of JVM that it is. For example, SYSVIEW can identify JVM address spaces that are running z/OS Connect and will classify that JVM address space as type ZOSCONNECT. When a JVM starts prior to the SYSVIEW main address space starting for the first time after an IPL, SYSVIEW will not fully identify the JVM address space. The address spaces will be marked as type JAVA and not the specific type of JVM it is. Address space types that are not JAVA are not impacted and will be identified correctly. SYMPTOMS: On the ACTIVITY, ASLIST, JVMLIST, JVMXDIS, and XDIUSERS commands, the ASIType field will show the value JAVA for address spaces where the ASIType field should be one of the following: WAS WAS_Liberty ZOSMF ZOSCONNECT IMPACT: Active JVM address spaces are not fully identified. CIRCUMVENTION: Restart the affected JVMs after SYSVIEW has started. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 14834 Copyright (C) 2021 CA. All rights reserved. R00242-NM4160-SP0 DESC(JVM ASITYPE NOT IDENTIFIED IF SYSVIEW STARTED AFTER). ++VER (Z038) FMID (CNM4G00) PRE (LU00951 LU02316 LU02613 LU03135 SO08681 SO09059 SO09589 SO10269 SO11875 SO12629 SO14533 SO15081 SO15790 SO16018) SUP (AS10269 LT02890 SO10411 ST10411)

Service	Details
LU03115	LU03115 M.C.S. ENTRIES = ++PTF (LU03115) INCORRECT ASIFREE METRIC VALUE PROBLEM DESCRIPTION: When issuing PLOT ASIFREE or looking at the PLOTLOG, the value for ASIFREE may show incorrect values when the calculations have gone negative. SYMPTOMS: Issuing PLOT ASIFREE may result in large values that represent negative numbers, i.e. 4g for ASIFREE. You may also see values for ASIFREE in PLOTLOG that show in the million+ for the Average value. IMPACT: Incorrect values or alerts displayed. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 15030 Copyright (C) 2021 CA. All rights reserved. R00250-NM4160-SP0 DESC(INCORRECT ASIFREE METRIC VALUE). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 LU00849 LU01511 LU02875 LU03135 SO09059 SO10316 SO10588 SO13072 SO14533 SO14761) SUP (LT00279 LT03115 LU00279 SO14921 SO14945 ST14921 ST14945)

Service	Details
LU03277	LU03277 M.C.S. ENTRIES = ++PTF (LU03277) ZCNSET PROVIDER FLUSH NULLPOINTEREXCEPTION PROBLEM DESCRIPTION: In z/OS Connect Enterprise Edition versions 3.0.31 and higher, a change was introduced that caused the SYSVIEW ZCNSET PROVIDER FLUSH command to possibly no longer successfully function. SYMPTOMS: After making a call to ZCNSET PROVIDER FLUSH, the z/OS Connect messages.log file will contain the following: SystemOut Calling flushQueue()... SystemErr java.lang.NullPointerException IMPACT: Unable to use the ZCNSET PROVIDER FLUSH command. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 15158 Copyright (C) 2021 CA. All rights reserved. R00253-NM4160-SP0 DESC(ZCNSET PROVIDER FLUSH NULLPOINTEREXCEPTION). ++VER (Z038) FMID (CNM4G00) PRE (LU00951 LU01855 LU02613 LU03135 SO09589 SO10269 SO11632 SO12347 SO13187 SO15790 SO16018 SO16108) SUP (LT03277) ++HOLD (LU03277) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21321) COMMENT (+----------+ | SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To allow SYSVIEW to monitor and manage z/OS Connect | +----------+----------+ |USERS | All users of SYSVIEW's z/OS Connect monitoring component | |AFFECTED | | +----------+----------+ |KNOWLEDGE | z/OS Connect administration | |REQUIRED | | +----------+----------+ |ACCESS | Write access to SYSVIEW JVM agent runtime library | |REQUIRED | | +----------+----------+ ********** * STEPS TO PERFORM * ********** If you do not use the JVM component then this HOLD can be ignored. 1. Apply the PTF. 2. Stop the JVMs configured to run the agent.

Service	Details
	Note that some address spaces such as CICS can have multiple JVMs. All JVMs in the address space must be stopped at the same time. 3. Stop the SYSVIEW STCs, GSSA, and any user sessions. 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 install job sysviewhlq.SAMPJCL(INST0006). 5. Start the SYSVIEW STCs, GSSA, and any user sessions. 6. Start the JVMs configured to run the agent. 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.). BINARY LINK('../libgsvoagt1.so') PARM(PATHMODE(0,7,7,5)) . BINARY LINK('../libgsvoagt4.so') PARM(PATHMODE(0,7,7,5)) .

Service	Details
LU03359	LU03359 M.C.S. ENTRIES = ++PTF (LU03359) NEW ALERT CENTRAL INTEGRATION ENHANCEMENT DESCRIPTION: This feature PTF adds Alert Central integration to SYSVIEW. Alerts can optionally be sent to Alert Central as part of exception processing. Alert Central (AC) is a new OPS/MVS component to extend our automation solution to have an alert management capability that provides more insightful information about mainframe alerts and reduce time to resolve problems. * Consolidate alerts using an intuitive and modern web interface. * Empower users with meaningful data around alerts, including historical information. * Direct alert integration for OPS/MVS, NetMaster and SYSVIEW, and available APIs to support additional products. * Streamline of existing workflows for problem identification, investigation, and incident resolution. * Enable quick interaction between Operations and SMEs on problems handover and escalation, including integrating with main ITSM tools to support auto ticketing. Alert Central is included with an OPS/MVS license. We encourage you to visit the Alert Central Tech Docs space for additional information at techdocs.broadcom.com. This feature PTF contains the following enhancements and changes: 1. Updated state/threshold commands to specify Alert Central options. The following fields were added to all state/threshold commands to specify if an alert is to be sent to Alert Central and if Alert Central is to open a ticket for the alert: * ACNotify - Specifies if a notification is to be sent to Alert Central when the trigger level is satisfied. Valid values are: YES - Send notification NO - Do not send notification * ACTicket - Specifies if Alert Central should attempt to open a ticket for the event. Valid values are: YES - Open ticket NO - Do not open ticket The following commands were updated with the new fields: * CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES, MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH 2. Updated state/threshold commands with new information area fields. The following information area fields were added to most state/threshold commands to show the high level status of alerting features. * Status - Displays the current status of exception action processing. Possible values are: ACTIVE - If an exception rule is exceeded, the requested actions are processed. INACTIVE - If an exception rule is exceeded, the requested actions are not processed. * OPS/MVS - Displays the current status of event notification to OPS/MVS.

Service	Details
	Possible values are: ACTIVE - Event notification is enabled and the OPS/MVS)API events process is active. INACTIVE - Event notification is enabled, but the OPS/MVS)API events process is inactive or not available. DISABLED - The event notification process is disabled. The OPSMVS-EVENT-NOTIFICATION configuration option is set to NO. * Alert Central - Displays the current status of event notification to Alert Central. Possible values are: ACTIVE - Event notification is enabled and Alert Central is active. INACTIVE - Event notification is enabled but Alert Central is inactive. NOTINSTALLED - Event notification is enabled but Alert Central is not installed. PAUSED - Event notification is enabled but Alert Central is paused. QUIESCING - Event notification is enabled but Alert Central is quiescing. STOPPING - Event notification is enabled but Alert Central is stopping. DISABLED - Event notification process is disabled. The Alert-Central-Notification configuration option is set to NO. The following commands were updated with the new information fields: * IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES, MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH 3. New SYSDATA parmlib option to control Alert Central notification. Parmlib : SYSDATA Option : Alert-Central-Notification Default : Yes When an exception alert is triggered based on a defined threshold or state rule, multiple actions can be taken. One action is to send an event notification to Alert Central. The action to generate an event notification is specified on each threshold or state rule definition. This can be coded as a default for all rules or specifically on each definition in the respective threshold and state definition parmlib members or online display commands. Valid values: Yes - Event notifications will be sent to Alert Central if specific threshold or state definition rules are set requesting the notification to be sent. No - Event notifications will not be sent to Alert Central even if specific threshold or state definition rules are set requesting the notification to be sent. This can be viewed as a global override setting. 4. New SVWCOPTS parmlib option to control Alert Central notification. Parmlib : SVWCOPTS Option : Alert-Central-Notification Default : Yes Change : This option can be modified after initialization via the

Service	Details
	CCONFIG or CICSSET commands. When an exception alert is triggered based on a defined threshold or state rule, multiple actions can be taken. One action is to send an event notification to Alert Central. The action to generate an event notification is specified on each threshold or state rule definition. This can be coded as a default for all rules or specifically on each definition in the respective threshold and state definition parmlib members or online display commands. Valid values: Yes - Event notifications will be sent to Alert Central if specific threshold or state definition rules are set requesting the notification to be sent. No - Event notifications will not be sent to Alert Central even if specific threshold or state definition rules are set requesting the notification to be sent. This can be viewed as a global override setting. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13830 Copyright (C) 2021 CA. All rights reserved. R00255-NM4160-SP0 DESC(NEW ALERT CENTRAL INTEGRATION). ++VER (Z038) FMID (CNM4G00) PRE (LU00548 LU00630 LU00849 LU00894 LU00933 LU00951 LU01064 LU01276 LU01511 LU02000 LU02191 LU02875 LU03135 SO08743 SO08895 SO09059 SO09589 SO10098 SO10316 SO10680 SO11028 SO11122 SO11361 SO11632 SO11642 SO11875 SO12050 SO12125 SO12163 SO12200 SO12816 SO13240 SO13538 SO13751 SO13989 SO14092 SO14533 SO14894 SO15081 SO15206 SO15210 SO15433 SO16018 SO16108 SO16292) SUP (LT02748 LT03359 LU02748) ++HOLD (LU03359) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21307) COMMENT (+----------+----------+ | SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To decribe the new features | +----------+----------+ |USERS | All users of SYSVIEW | |AFFECTED | | +----------+----------+ |KNOWLEDGE | Product Administration | |REQUIRED | | +----------+----------+ |ACCESS | Product libraries | |REQUIRED | | +----------+----------+

Service	Details
	*************************
	* STEPS TO PERFORM *
	*************************
	ENHANCEMENT DESCRIPTION:
	This feature PTF adds Alert Central integration to SYSVIEW. Alerts can optionally be sent to Alert Central as part of exception processing.
	Alert Central (AC) is a new OPS/MVS component to extend our automation solution to have an alert management capability that provides more insightful information about mainframe alerts and reduce time to resolve problems.
	* Consolidate alerts using an intuitive and modern web interface.
	* Empower users with meaningful data around alerts, including historical information.
	* Direct alert integration for OPS/MVS, NetMaster and SYSVIEW, and available APIs to support additional products.
	* Streamline of existing workflows for problem identification, investigation, and incident resolution.
	* Enable quick interaction between Operations and SMEs on problems handover and escalation, including integrating with main ITSM tools to support auto ticketing.
	Alert Central is included with an OPS/MVS license. We encourage you to visit the Alert Central Tech Docs space for additional information at techdocs.broadcom.com.
	This feature PTF contains the following enhancements and changes:
	1. Updated state/threshold commands to specify Alert Central options. The following fields were added to all state/threshold commands to specify if an alert is to be sent to Alert Central and if Alert Central is to open a ticket for the alert:
	* ACNotify - Specifies if a notification is to be sent to Alert Central when the trigger level is satisfied.
	Valid values are:
	YES - Send notification
	NO - Do not send notification
	* ACTicket - Specifies if Alert Central should attempt to open a ticket for the event.
	Valid values are:
	YES - Open ticket
	NO - Do not open ticket
	The following commands were updated with the new fields:
	* CSTATES, CTHRESH, IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES, MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH
	2. Updated state/threshold commands with new information area fields. The following information area fields were added to most state/ threshold commands to show the high level status of alerting features.
	* Status - Displays the current status of exception action processing.
	Possible values are:
	ACTIVE - If an exception rule is exceeded, the requested actions are processed.
	INACTIVE - If an exception rule is exceeded, the requested actions are not processed.
	* OPS/MVS - Displays the current status of event notification to OPS/MVS.

Service	Details
	Possible values are: ACTIVE - Event notification is enabled and the OPS/MVS API events process is active. INACTIVE - Event notification is enabled, but the OPS/MVS API events process is inactive or not available. DISABLED - The event notification process is disabled. The OPSMVS-EVENT-NOTIFICATION configuration option is set to NO. * Alert Central - Displays the current status of event notification to Alert Central. Possible values are: ACTIVE - Event notification is enabled and Alert Central is active. INACTIVE - Event notification is enabled but Alert Central is inactive. NOTINSTALLED - Event notification is enabled but Alert Central is not installed. PAUSED - Event notification is enabled but Alert Central is paused. QUIESCING - Event notification is enabled but Alert Central is quiescing. STOPPING - Event notification is enabled but Alert Central is stopping. DISABLED - Event notification process is disabled. The Alert-Central-Notification configuration option is set to NO. The following commands were updated with the new information fields: * IMSSTATE, IMSTHRSH, JVMSTATE, MQSTATES, MQTHRESH, STATES, TCPSTATE, TCPTHRSH, THRESH 3. New SYSDATA parmlib option to control Alert Central notification. Parmlib : SYSDATA Option : Alert-Central-Notification Default : Yes When an exception alert is triggered based on a defined threshold or state rule, multiple actions can be taken. One action is to send an event notification to Alert Central. The action to generate an event notification is specified on each threshold or state rule definition. This can be coded as a default for all rules or specifically on each definition in the respective threshold and state definition parmlib members or online display commands. Valid values: Yes - Event notifications will be sent to Alert Central if specific threshold or state definition rules are set requesting the notification to be sent. No - Event notifications will not be sent to Alert Central even if specific threshold or state definition rules are set requesting the notification to be sent. This can be viewed as a global override setting. 4. New SVWCOPTS parmlib option to control Alert Central notification. Parmlib : SVWCOPTS Option : Alert-Central-Notification Default : Yes Change : This option can be modified after initialization via the

Service	Details
	CCONFIG or CICSSET commands. When an exception alert is triggered based on a defined threshold or state rule, multiple actions can be taken. One action is to send an event notification to Alert Central. The action to generate an event notification is specified on each threshold or state rule definition. This can be coded as a default for all rules or specifically on each definition in the respective threshold and state definition parmlib members or online display commands. Valid values: Yes - Event notifications will be sent to Alert Central if specific threshold or state definition rules are set requesting the notification to be sent. No - Event notifications will not be sent to Alert Central even if specific threshold or state definition rules are set requesting the notification to be sent. This can be viewed as a global override setting.). ++HOLD (LU03359) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21307) COMMENT (+----------+----------+ | 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 * ********** This PTF requires the SYSVIEW for CICS monitor to be recycled, or CICS to be recycled. 1. Apply the PTF. 2. Stop any CICS regions being monitored by SYSVIEW, or use the GSVT (terminate) transaction to stop SYSVIEW for CICS within each region. 3. Stop the SYSVIEW STCs, GSSA, and any user sessions. 4. Deploy the PTF to your run-time libraries. 5. Start the SYSVIEW STCs, GSSA, and any user sessions. 6. Start any CICS regions being monitored by SYSVIEW, or use the GSVS (start) transaction to start SYSVIEW for CICS within each region.).

Service	Details
LU03433	LU03433 M.C.S. ENTRIES = ++PTF (LU03433) CICS TS 6.1 ETP17 OPEN BETA SUPPORT ENHANCEMENT DESCRIPTION: Compatibility support for IBM CICS Transaction Server (TS) version 6.1 ETP17 Open Beta. In addition to CICS TS 6.1 ETP17 Open Beta support, the following enhancements were added: 1. New CICS JVM Server monitoring and data collection. The following changes were made to monitor and collect data on CICS JVM Servers: * The following data collection metrics were added for monitoring CICS JVM Servers: Metric Description -------- ---------- CJSCLSA JVM server class stg allocated CJSCLSA% JVM server class stg alloc pct of heap CJSCLSU JVM server class stg used CJSCLSU% JVM server class stg used pct CJSCODA JVM server code cache allocated CJSCODA% JVM server code cache alloc pct of heap CJSCODU JVM server code cache used CJSCODU% JVM server code cache used pct CJSDATA JVM server data cache allocated CJSDATA% JVM server data cache alloc pct of heap CJSDATU JVM server data cache used CJSDATU% JVM server data cache used pct CJSGCMEV JVM server GC major events CJSGCMHP JVM server GC major heap freed CJSGCNEV JVM server GC minor events CJSGCNHP JVM server GC minor heap freed CJSHEAP JVM server heap size CJSHEAP% JVM server heap size in use pct CJSINUS% JVM server threads in use pct CJSINUSE JVM server threads in use CJSLIMIT JVM server thread limit CJSOCC JVM server occupancy at last GC CJSOCC% JVM server occupancy pct at last GC CJSREQS JVM server requests CJSSHRF JVM server shared class cache free CJSSHRF% JVM server shared class cache free pct CJSSHRS JVM server shared class cache size CJSSHRU JVM server shared class cache used CJSSHRU% JVM server shared class cache used pct CJSSTAT JVM server status CJSSYSU JVM server system threads in use CJSSYSW JVM server system thread waits CJSWAITS JVM server thread waits The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, the following metrics will be sent to Mainframe Operational Intelligence (MOI) by default if using MOI: CJSCLSA%, CJSCLSU%, CJSCODA%, CJSCODU%, CJSDATA%, CJSDATU%, CJSGCMEV, CJSGCMHP, CJSGCNEV, CJSGCNHP, CJSHEAP%, CJSINUS%,

Service	Details
	CJSOCC%, CJSREQS, CJSSHRU% If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CSTATES parmlib member was updated with definitions for the new CICS JVM Server metrics. * The CTHRESH parmlib member was updated with sample definitions for the new CICS JVM Server metrics. * The CSTATUS command was updated to show CICS JVM Server metrics. * The following data collection schedule event was added to control the collection of CICS JVM Server data and its frequency: Event Description ---------- ---------- SYSTEM-JVMSERVER CICS JVM servers The CSCHEDUL command was updated to show the new schedule event. The SCHDCICS parmlib member was updated to specify a default schedule definition. If a schedule event is not found for SYSTEM-JVMSERVER, one will be added for you when SYSVIEW initializes in the CICS region. Note, the SYSTEM-JVMSERVER schedule event is disabled by default. If you wish to enable CICS JVM Server data collection, then either enable the SYSTEM-JVMSERVER event on CSCHEDUL (warm start) or enable the SYSTEM-JVMSERVER event in the SCHDCICS parmlib member (cold start). The SYSTEM-JVMSERVER schedule event is required to be enabled for the new CICS JVM Server metric data collection. * The following configuration option was added to control the sending of CICS JVM Server data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWCTSD Option : CICS-JVMSERVER Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the CICS region level whether subscriptions to CICS JVM Server data are honored and provided. * The following configuration option was added to control the sending of CICS JVM Server data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWXTSD Option : CICS-JVMSERVER Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the system level whether subscriptions to CICS JVM Server data are honored and provided. Setting the value to "DISABLE" will override the setting at the CICS region level. * The following commands were updated to show a new CicsJvmServer data collection topic and statistics: CTSDSTAT, TSDSTATS, ZDMSTATS 2. New CICS File monitoring and data collection. The following changes were made to monitor and collect data on

Service	Details
	CICS Files: * The following system data collection metrics were added for monitoring CICS Files: Metric Description -------- ---------- FILSBUFW File buffer waits (interval) FILSREQS File requests (interval) FILSSTRW File string waits (interval) FILSUSE% File data table used pct The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, the following metrics will be sent to Mainframe Operational Intelligence (MOI) by default if using MOI: FILSBUFW, FILSREQS, FILSSTRW, FILSUSE% If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CTHRESH parmlib member was updated with sample definitions for the new CICS File metrics. * The following configuration option was added to control the sending of CICS File data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWCTSD Option : CICS-File Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the CICS region level whether subscriptions to CICS File data are honored and provided. * The following configuration option was added to control the sending of CICS File data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWXTSD Option : CICS-File Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the system level whether subscriptions to CICS File data are honored and provided. Setting the value to "DISABLE" will override the setting at the CICS region level. * The following commands were updated to show a new CicsFile data collection topic and statistics: CTSDSTAT, TSDSTATS, ZDMSTATS 3. New CICS TCB Pool monitoring and data collection. The following changes were made to monitor and collect data on CICS TCB Pools: * The following data collection metrics were added for monitoring CICS TCB Pools: Metric Description -------- ---------- TCBPATT TCBs attached

Service	Details
	TCBPATT% TCBs attached pct of limit TCBPDLYM TCB requests delayed due to limit TCBPLIM TCB pool limit TCBPMISW TCB mismatch waits TCBPUSE TCBs in use TCBPUSE% TCBs in use pct of limit The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, the following metrics will be sent to Mainframe Operational Intelligence (MOI) by default if using MOI: TCBPATT%, TCBPUSE% If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CTHRESH parmlib member was updated with sample definitions for the new CICS TCB Pool metrics. * The following data collection schedule event was added to control the collection of CICS TCB Pool data and its frequency: Event Description ---------- ---------- SYSTEM-TCBPOOLS CICS TCB Pools The CSCHEDUL command was updated to show the new schedule event. The SCHDCICS parmlib member was updated to specify a default schedule definition. If a schedule event is not found for SYSTEM-TCBPOOLS, one will be added for you when SYSVIEW initializes in the CICS region. Note, the SYSTEM-TCBPOOLS schedule event is disabled by default. If you wish to enable CICS TCB Pool data collection, then either enable the SYSTEM-TCBPOOLS event on CSCHEDUL (warm start) or enable the SYSTEM-TCBPOOLS event in the SCHDCICS parmlib member (cold start). The SYSTEM-TCBPOOLS schedule event is required to be enabled for the new CICS TCB Pool metric data collection. * The following configuration option was added to control the sending of CICS TCB Pool data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWCTSD Option : CICS-TcbPool Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the CICS region level whether subscriptions to CICS TCB Pool data are honored and provided. * The following configuration option was added to control the sending of CICS TCB Pool data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWXTSD Option : CICS-TcbPool Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the system level whether subscriptions to CICS TCB Pool data are

Service	Details
	honored and provided. Setting the value to "DISABLE" will override the setting at the CICS region level. * The following commands were updated to show a new CicsTcbPool data collection topic and statistics: CTSDSTAT, TSDSTATS, ZDMSTATS 4. New CICS IP Socket monitoring and data collection. The following changes were made to monitor and collect data on CICS IP Sockets: * The following data collection metrics were added for monitoring CICS IP Sockets: Metric Description -------- ---------- CSOCK% CICS active IP sockets pct CSOCKACT CICS active IP sockets CSOCKMAX CICS maximum IP sockets The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, none of the above metrics will be sent to to Mainframe Operational Intelligence (MOI) by default if using MOI. If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CTHRESH parmlib member was updated with sample definitions for the new CICS IP Sockets metrics. * Updated CICS system data interval (CSYSDATA) SMF record. The following updates were made to the CICS system data 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 data (CSYSDATA) SMF record: Field Description ---------- ---------- CSID_CICS_MaxSock Max IP sockets CSID_CICS_ActSock Active IP sockets CSID_CICS_ActSockP Active IP sockets pct The fields were added to the GSVSMF28 maclib member. The SMF record formatter for the CSYSDATA command was updated to display the new SMF fields on the SMFRPT when an SMF record is selected. - The following variables were added to CA EXPLORE Report Writer: Variable Description ---------- ---------- CICS_MaxSock Max IP sockets CICS_ActSock Active IP sockets CICS_ActSockP Active IP sockets pct The variables were added to the GSVSMF28 report sample member. - The following variables were added to CA Easytrieve: Variable Description ---------- ---------- C28D_CICS_MaxSock Max IP sockets C28D_CICS_ActSock Active IP sockets

Service	Details
	C28D_CICS_ActSockP Active IP sockets pct The variables were added to the GSVSMF28 Easytrieve macro member. 5. New CDFHCNV command. A CDFHCNV command was added to display the CICS DFHCNV conversion table definitions. The command can be used to view and compare CICS data conversion definitions. The command supports displaying data from one CICS region (REGION), multiple CICS regions in the same LPAR (SYSTEM), or or multiple LPARs (XSYSTEM). 6. New CTAGS command. A CTAGS command was added to display defined CICS region tagging. CICS regions can be tagged to help identify the purpose of the region. A CICS YAML file is used to create tagging definitions. This command requires CICS TS 6.1 or higher. The command supports displaying data from one CICS region (REGION), multiple CICS regions in the same LPAR (SYSTEM), or or multiple LPARs (XSYSTEM). 7. Enhanced CJVMSERV command with new fields. The following fields were added to the CJVMSERV command: Field Description -------- ---------- ShrFree Shared class cache free ShrSize Shared class cache size 8. Simplified configuration for APM-only SYSVIEW installations. SYSVIEW can be configured to run in an APM-only mode by setting all Components and Options to be disabled except CEAPM. In this case SYSVIEW will provide metric data and tracing capability for APM, but most other SYSVIEW functionality is disabled. To create a better out-of-the-box configuration experience for APM-only SYSVIEW installations, the following updates were made: * New SVWCAPM parmlib member. A SVWCAPM parmlib member was added to override settings in the SVWCOPTS parmlib member when running in an APM-only mode. The SVWCAPM parmlib member is read and processed if the following conditions are true: System Configuration Options (*.CNM4SCFG library GSVXssid member) Option-CEAPM Yes Option-CICS No CICS Configuration Options (*.CNM4BPRM library SVWCOPTS member) CEAPM-ENABLE Yes When the above is true the following occurs: - The SVWCOPTS parmlib member is first processed, setting defaults to a typical full SYSVIEW installation. - The SVWCAPM parmlib member is secondarily processed, overriding settings previously set by SVWCOPTS that are optimal for a APM-only SYSVIEW installation. Note, the SVWCAPM parmlib member is never read for full installs of SYSVIEW and can be ignored. For example: System Configuration Options (*.CNM4SCFG library GSVXssid member) Option-CEAPM No Option-CICS Yes Note, the SVWCAPM parmlib member is never read for full installs of SYSVIEW that are also running APM, and can be ignored. For example: System Configuration Options (*.CNM4SCFG library GSVXssid member)

Service	Details
	Option-CEAPM Yes Option-CICS Yes 9. Message Id CICS001E changed to message Id CICS025E. Message Id CICS001E was replaced with new message Id CICS025E, which provides more descriptive information than the old message. Note, both message Id CICS001E and CICS025E are session related messages that appear in a user's message area and LISTLOG. These messages do not appear on the console or on the system log. It is unlikely you would need to update any automation rules for these message Ids as they do not appear in places automation would observe them. 10. Correction of error message resulting from PTF LU03359. The following error message is observed after applying PTF LU03359 and running the SYSVIEW for CICS option: GSV3621E (CICSDATA) Exception definition for CJSSTAT failed. Invalid metric name This problem was caused by shipping a new metric definition in the CSTATES parmlib member in PTF LU03359 that was not to be shipped until this PTF. Applying this PTF corrects the problem. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 14165 Copyright (C) 2021 CA. All rights reserved. R00256-NM4160-SP0 DESC(CICS TS 6.1 ETP17 OPEN BETA SUPPORT). ++VER (Z038) FMID (CNM4G00) PRE (LU00517 LU00548 LU00552 LU00595 LU00630 LU00849 LU00894 LU00951 LU00958 LU01005 LU01064 LU01511 LU01709 LU01855 LU02000 LU02191 LU02316 LU02534 LU02875 LU03000 LU03030 LU03135 LU03153 LU03359 SO08681 SO08743 SO08793 SO08894 SO09013 SO09059 SO09589 SO10098 SO10197 SO10316 SO10497 SO10680 SO10853 SO11028 SO11632 SO11642 SO11865 SO11875 SO12051 SO12125 SO12629 SO12816 SO13538 SO13751 SO13779 SO13989 SO14361 SO14411 SO14533 SO14894 SO14964 SO15081 SO15206 SO15210 SO16018 SO16108 SO16292) SUP (LT03433) ++HOLD (LU03433) SYSTEM FMID(CNM4G00) REASON (ACTION) DATE (21316) COMMENT (+----------+ | 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 |

Service	Details
	|REQUIRED	CICS Systems Programming | +----------+----------+ |ACCESS	Product libraries
REQUIRED	Ability to run SYSVIEW for CICS transactions | +----------+----------+ ********** * STEPS TO PERFORM * ********** This PTF requires that the security dataset be refreshed using the security conversion program. 1. Apply the PTF. 2. Stop any CICS regions being monitored by SYSVIEW, or use the GSVT (terminate) transaction to stop SYSVIEW for CICS within each region. 3. Stop the SYSVIEW STCs, GSSA, and any user sessions. 4. Deploy the PTF to your run-time libraries. 5. Run Security Conversion JCL contained in CNM4BSAM member GSVUCSEC. 6. Start the SYSVIEW STCs, GSSA, and any user sessions. 7. Perform a CICS NEWCOPY for program GSVCGSVS within each region if the CICS regions were not stopped. 8. Start any CICS regions being monitored by SYSVIEW, or use the GSVS (start) transaction to start SYSVIEW for CICS within each region.). ++HOLD (LU03433) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21316) COMMENT (+----------+----------+ | 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: Compatibility support for IBM CICS Transaction Server (TS) version 6.1 ETP17 Open Beta. In addition to CICS TS 6.1 ETP17 Open Beta support, the following enhancements were added: 1. New CICS JVM Server monitoring and data collection. The following changes were made to monitor and collect data on CICS JVM Servers: * The following data collection metrics were added for monitoring CICS JVM Servers:

Service	Details
	Metric Description -------- ---------- CJSCLSA JVM server class stg allocated CJSCLSA% JVM server class stg alloc pct of heap CJSCLSU JVM server class stg used CJSCLSU% JVM server class stg used pct CJSCODA JVM server code cache allocated CJSCODA% JVM server code cache alloc pct of heap CJSCODU JVM server code cache used CJSCODU% JVM server code cache used pct CJSDATA JVM server data cache allocated CJSDATA% JVM server data cache alloc pct of heap CJSDATU JVM server data cache used CJSDATU% JVM server data cache used pct CJSGCMEV JVM server GC major events CJSGCMHP JVM server GC major heap freed CJSGCNEV JVM server GC minor events CJSGCNHP JVM server GC minor heap freed CJSHEAP JVM server heap size CJSHEAP% JVM server heap size in use pct CJSINUS% JVM server threads in use pct CJSINUSE JVM server threads in use CJSLIMIT JVM server thread limit CJSOCC JVM server occupancy at last GC CJSOCC% JVM server occupancy pct at last GC CJSREQS JVM server requests CJSSHRF JVM server shared class cache free CJSSHRF% JVM server shared class cache free pct CJSSHRS JVM server shared class cache size CJSSHRU JVM server shared class cache used CJSSHRU% JVM server shared class cache used pct CJSSTAT JVM server status CJSSYSU JVM server system threads in use CJSSYSW JVM server system thread waits CJSWAITS JVM server thread waits The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, the following metrics will be sent to Mainframe Operational Intelligence (MOI) by default if using MOI: CJSCLSA%, CJSCLSU%, CJSCODA%, CJSCODU%, CJSDATA%, CJSDATU%, CJSGCMEV, CJSGCMHP, CJSGCNEV, CJSGCNHP, CJSHEAP%, CJSINUS%, CJSOCC%, CJSREQS, CJSSHRU% If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CSTATES parmlib member was updated with definitions for the new CICS JVM Server metrics. * The CTHRESH parmlib member was updated with sample definitions for the new CICS JVM Server metrics. * The CSTATUS command was updated to show CICS JVM Server metrics. * The following data collection schedule event was added to control

Service	Details
	the collection of CICS JVM Server data and its frequency: Event Description ---------- ---------- SYSTEM-JVMSERVER CICS JVM servers The CSCHEDUL command was updated to show the new schedule event. The SCHDCICS parmlib member was updated to specify a default schedule definition. If a schedule event is not found for SYSTEM-JVMSERVER, one will be added for you when SYSVIEW initializes in the CICS region. Note, the SYSTEM-JVMSERVER schedule event is disabled by default. If you wish to enable CICS JVM Server data collection, then either enable the SYSTEM-JVMSERVER event on CSCHEDUL (warm start) or enable the SYSTEM-JVMSERVER event in the SCHDCICS parmlib member (cold start). The SYSTEM-JVMSERVER schedule event is required to be enabled for the new CICS JVM Server metric data collection. * The following configuration option was added to control the sending of CICS JVM Server data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWCTSD Option : CICS-JVMSERVER Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the CICS region level whether subscriptions to CICS JVM Server data are honored and provided. * The following configuration option was added to control the sending of CICS JVM Server data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWXTSD Option : CICS-JVMSERVER Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the system level whether subscriptions to CICS JVM Server data are honored and provided. Setting the value to "DISABLE" will override the setting at the CICS region level. * The following commands were updated to show a new CicsJvmServer data collection topic and statistics: CTSDSTAT, TSDSTATS, ZDMSTATS 2. New CICS File monitoring and data collection. The following changes were made to monitor and collect data on CICS Files: * The following system data collection metrics were added for monitoring CICS Files: Metric Description -------- ---------- FILSBUFW File buffer waits (interval) FILSREQS File requests (interval) FILSSTRW File string waits (interval) FILSUSE% File data table used pct The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, the following metrics will be sent to Mainframe Operational Intelligence (MOI) by default if using MOI:

Service	Details
	FILSBUFW, FILSREQS, FILSSTRW, FILSUSE% If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CTHRESH parmlib member was updated with sample definitions for the new CICS File metrics. * The following configuration option was added to control the sending of CICS File data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWCTSD Option : CICS-File Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the CICS region level whether subscriptions to CICS File data are honored and provided. * The following configuration option was added to control the sending of CICS File data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWXTSD Option : CICS-File Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the system level whether subscriptions to CICS File data are honored and provided. Setting the value to "DISABLE" will override the setting at the CICS region level. * The following commands were updated to show a new CicsFile data collection topic and statistics: CTSDSTAT, TSDSTATS, ZDMSTATS 3. New CICS TCB Pool monitoring and data collection. The following changes were made to monitor and collect data on CICS TCB Pools: * The following data collection metrics were added for monitoring CICS TCB Pools: Metric Description -------- ---------- TCBPATT TCBs attached TCBPATT% TCBs attached pct of limit TCBPDLYM TCB requests delayed due to limit TCBPLIM TCB pool limit TCBPMISW TCB mismatch waits TCBPUSE TCBs in use TCBPUSE% TCBs in use pct of limit The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, the following metrics will be sent to Mainframe Operational Intelligence (MOI) by default if using MOI: TCBPATT%, TCBPUSE% If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to

Service	Details
	TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CTHRESH parmlib member was updated with sample definitions for the new CICS TCB Pool metrics. * The following data collection schedule event was added to control the collection of CICS TCB Pool data and its frequency: Event Description ---------- ---------- SYSTEM-TCBPOOLS CICS TCB Pools The CSCHEDUL command was updated to show the new schedule event. The SCHDCICS parmlib member was updated to specify a default schedule definition. If a schedule event is not found for SYSTEM-TCBPOOLS, one will be added for you when SYSVIEW initializes in the CICS region. Note, the SYSTEM-TCBPOOLS schedule event is disabled by default. If you wish to enable CICS TCB Pool data collection, then either enable the SYSTEM-TCBPOOLS event on CSCHEDUL (warm start) or enable the SYSTEM-TCBPOOLS event in the SCHDCICS parmlib member (cold start). The SYSTEM-TCBPOOLS schedule event is required to be enabled for the new CICS TCB Pool metric data collection. * The following configuration option was added to control the sending of CICS TCB Pool data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWCTSD Option : CICS-TcbPool Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the CICS region level whether subscriptions to CICS TCB Pool data are honored and provided. * The following configuration option was added to control the sending of CICS TCB Pool data from SYSVIEW to subscribers of the data such as Mainframe Operational Intelligence (MOI): Parmlib : SVWXTSD Option : CICS-TcbPool Default : Enabled The CICS data collector executing in each CICS region is a provider of time series data to subscribers. This option controls at the system level whether subscriptions to CICS TCB Pool data are honored and provided. Setting the value to "DISABLE" will override the setting at the CICS region level. * The following commands were updated to show a new CicsTcbPool data collection topic and statistics: CTSDSTAT, TSDSTATS, ZDMSTATS 4. New CICS IP Socket monitoring and data collection. The following changes were made to monitor and collect data on CICS IP Sockets: * The following data collection metrics were added for monitoring CICS IP Sockets: Metric Description -------- ---------- CSOCK% CICS active IP sockets pct

Service	Details
	CSOCKACT CICS active IP sockets CSOCKMAX CICS maximum IP sockets The VARCICS parmlib member was updated with the new metrics. All new metrics appear on the VARS command. Note, none of the above metrics will be sent to to Mainframe Operational Intelligence (MOI) by default if using MOI. If you wish to enable/disable metrics for MOI then definitions can be modified in your SITE SVWYVARS parmlib member and set to TSD/NOTSD. To ensure proper delivery of these new SYSVIEW metrics to MOI, ensure you have the latest MOI 2.0.06 Interim Enhancement (delivered through Broadcom Support) in place. * The CTHRESH parmlib member was updated with sample definitions for the new CICS IP Sockets metrics. * Updated CICS system data interval (CSYSDATA) SMF record. The following updates were made to the CICS system data 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 data (CSYSDATA) SMF record: Field Description ---------- ---------- CSID_CICS_MaxSock Max IP sockets CSID_CICS_ActSock Active IP sockets CSID_CICS_ActSockP Active IP sockets pct The fields were added to the GSVSMF28 maclib member. The SMF record formatter for the CSYSDATA command was updated to display the new SMF fields on the SMFRPT when an SMF record is selected. - The following variables were added to CA EXPLORE Report Writer: Variable Description ---------- ---------- CICS_MaxSock Max IP sockets CICS_ActSock Active IP sockets CICS_ActSockP Active IP sockets pct The variables were added to the GSVSMF28 report sample member. - The following variables were added to CA Easytrieve: Variable Description ---------- ---------- C28D_CICS_MaxSock Max IP sockets C28D_CICS_ActSock Active IP sockets C28D_CICS_ActSockP Active IP sockets pct The variables were added to the GSVSMF28 Easytrieve macro member. 5. New CDFHCNV command. A CDFHCNV command was added to display the CICS DFHCNV conversion table definitions. The command can be used to view and compare CICS data conversion definitions. The command supports displaying data from one CICS region (REGION), multiple CICS regions in the same LPAR (SYSTEM), or or multiple LPARs (XSYSTEM). 6. New CTAGS command. A CTAGS command was added to display defined CICS region tagging. CICS regions can be tagged to help identify the purpose of the region. A CICS YAML file is used to create tagging definitions.

Service	Details
	This command requires CICS TS 6.1 or higher. The command supports displaying data from one CICS region (REGION), multiple CICS regions in the same LPAR (SYSTEM), or or multiple LPARs (XSYSTEM). 7. Enhanced CJVMSERV command with new fields. The following fields were added to the CJVMSERV command: Field Description -------- ---------- ShrFree Shared class cache free ShrSize Shared class cache size 8. Simplified configuration for APM-only SYSVIEW installations. SYSVIEW can be configured to run in an APM-only mode by setting all Components and Options to be disabled except CEAPM. In this case SYSVIEW will provide metric data and tracing capability for APM, but most other SYSVIEW functionality is disabled. To create a better out-of-the-box configuration experience for APM-only SYSVIEW installations, the following updates were made: * New SVWCAPM parmlib member. A SVWCAPM parmlib member was added to override settings in the SVWCOPTS parmlib member when running in an APM-only mode. The SVWCAPM parmlib member is read and processed if the following conditions are true: System Configuration Options (*.CNM4SCFG library GSVXssid member) Option-CEAPM Yes Option-CICS No CICS Configuration Options (*.CNM4BPRM library SVWCOPTS member) CEAPM-ENABLE Yes When the above is true the following occurs: - The SVWCOPTS parmlib member is first processed, setting defaults to a typical full SYSVIEW installation. - The SVWCAPM parmlib member is secondarily processed, overriding settings previously set by SVWCOPTS that are optimal for a APM-only SYSVIEW installation. Note, the SVWCAPM parmlib member is never read for full installs of SYSVIEW and can be ignored. For example: System Configuration Options (*.CNM4SCFG library GSVXssid member) Option-CEAPM No Option-CICS Yes Note, the SVWCAPM parmlib member is never read for full installs of SYSVIEW that are also running APM, and can be ignored. For example: System Configuration Options (*.CNM4SCFG library GSVXssid member) Option-CEAPM Yes Option-CICS Yes 9. Message Id CICS001E changed to message Id CICS025E. Message Id CICS001E was replaced with new message Id CICS025E, which provides more descriptive information than the old message. Note, both message Id CICS001E and CICS025E are session related messages that appear in a user's message area and LISTLOG. These messages do not appear on the console or on the system log. It is unlikely you would need to update any automation rules for these message Ids as they do not appear in places automation would observe them. 10. Correction of error message resulting from PTF LU03359. The following error message is observed after applying PTF LU03359

Service	Details
	and running the SYSVIEW for CICS option: GSV3621E (CICSDATA) Exception definition for CJSSTAT failed. Invalid metric name This problem was caused by shipping a new metric definition in the CSTATES parmlib member in PTF LU03359 that was not to be shipped until this PTF. Applying this PTF corrects the problem.).

Service	Details
LU03469	LU03469 M.C.S. ENTRIES = ++PTF (LU03469) ABEND S0C4 IEFQBSVA DURING SYSVIEW INITIALIZATION PROBLEM DESCRIPTION: SYSVIEW session initialization tries to determine the SYSVIEW load library name. In some cases it may issue a SWAREQ macro passing a bad JFCB SVA token in the SWAL parameter block. The potential for this problem does not exist if the SYSVIEW loadlib is accessed from LINKLIST. SYMPTOMS: In the reported case the SYSVIEW monitor was initializing in ROSCOE during ROSCOE startup and took a S0C4 abend in IBM module IEFQBSVA. The caller of IEFQBSVA was SYSVIEW module GSVXNUC csect GSVXDSSR. IMPACT: Session initialization terminates with an abend. CIRCUMVENTION: Try moving the SYSVIEW loadlib ahead of any multi-volume load libraries in the STEPLIB DD concatenation. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 14030 Copyright (C) 2021 CA. All rights reserved. R00257-NM4160-SP0 DESC(ABEND S0C4 IEFQBSVA DURING SYSVIEW INITIALIZATION). ++VER (Z038) FMID (CNM4G00) PRE (LU02875 LU03135) SUP (LT03469)

Service	Details
LU03480	LU03480 M.C.S. ENTRIES = ++PTF (LU03480) IMSTRACE ABEND S0C4-04 IN NUCMOD GSVPIMSR ROUTINE CTRB$$ PROBLEM DESCRIPTION: On a system where multiple IMS subsystems are active and a trace buffer has been allocated for more than one IMS subsystem, a S0C4-04 abend may occur if you switch to a different target IMS from the IMSTRACE command. Trace buffers are allocated when a START subcommand is issued from IMSTRACE. Buffers will remain allocated until any one of the following conditions occur: o A DELETE subcommand is issued from IMSTRACE. o The trace data is EXPORTED to the IMSDLIB (IMS Data Library). o The IMSLOGR subtask is terminated. o The IMSDATA subtask is terminated. o The SYSVIEW task is terminated. The current target IMS control region can be changed by using the IMS or ASID function command. SYMPTOMS: The following abend can be seen in the address space where the user's SYSVIEW session was established: GSVX451E Abend S0C4-04 in IMSTRACE/IMS command GSVX457I Psw 478C3001 BC311182 Ilc 4 Intc 04 GSVX477I Key 8 State SUP Am 64 Asc PRI GSVX458I Module GSVXNUC Addr 3BFE3000 Offset 0032E182 GSVX458I NucMod GSVPIMSR Addr 3C301008 Offset 0001017A GSVX450I FixLvl LU02954 GSVX473I Routne CTRB$$ Addr 3C310E50 Offset 00000332 GSVX459I Data at PSW addr 3C31117C GSVX460I 0031A802 0000A714 FFFEA7F4 GSVX455I General registers at entry to abend GSVX467I R0-R1 00000050_0086C000 00000000_00100360 GSVX467I R2-R3 000001B4_C68FFCA0 00000000_00100360 GSVX467I R4-R5 00000000_2E744130 00000000_3B5546A0 GSVX467I R6-R7 00000000_3B554060 00000000_3B4504B0 GSVX467I R8-R9 00000000_3B552060 00000000_3B551060 GSVX467I R10-R11 00000000_3C311E88 00000000_3B39B000 GSVX467I R12-R13 00000000_3C310E50 00000000_3B3A6AA8 GSVX467I R14-R15 00000000_3C310F59 000001B4_C6700000 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 GSVX462I (MAIN) End of symptom dump It is also possible for a storage overlay to occur resulting in unpredictable behavior. IMPACT: The user's SYSVIEW session abnormally terminates. CIRCUMVENTION: Set the target IMS prior to issuing the IMSTRACE command and don't switch targets while in IMSTRACE. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem:

Service	Details
	SYSVW 15323 Copyright (C) 2021 CA. All rights reserved. R00258-NM4160-SP0 DESC(IMSTRACE ABEND S0C4-04 IN NUCMOD GSVPIMSR ROUTINE CTRB$$). ++VER (Z038) FMID (CNM4G00) PRE (LU02954 LU03135 LU03284 SO15210) SUP (LT03480)

Service	Details
LU03526	LU03526 M.C.S. ENTRIES = ++PTF (LU03526) DATACOM OPTION COMMAND UPDATES AND NEW FIELDS ENHANCEMENT DESCRIPTION: This PTF contains the following enhancements to the Datacom Option. 1. Updated DCINDEX command with new fields. The following fields were added to the DCINDEX command: Format - The format of the index. This field will only be filled in if the TVer value is greater than 0. This field is valid starting at Datacom r15.1 with SO15152 applied. TVer - Contains the table version (generation level) of the table. This field is valid starting at Datacom r15.1. 2. Updated DCBUFP command with new field. The following field was added to the DCBUFP command: Ratio - The ratio of Use-5+ to Use-1 buffer references. PRODUCT(S) AFFECTED: SYSVIEW Performance Management Version 16.0 Related Problem: SYSVW 15361 Copyright (C) 2021 CA. All rights reserved. R00259-NM4160-SP0 DESC(DATACOM OPTION COMMAND UPDATES AND NEW FIELDS). ++VER (Z038) FMID (CNM4G00) PRE (LU03135 SO14533) SUP (LT03526) ++HOLD (LU03526) SYSTEM FMID(CNM4G00) REASON (ENH) DATE (21321) COMMENT (+----------+ | SYSVIEW 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 PTF contains the following enhancements to the Datacom Option. 1. Updated DCINDEX command with new fields. The following fields were added to the DCINDEX command: Format - The format of the index. This field will only be filled in if the TVer value is greater than 0. This field is

Service	Details
	valid starting at Datacom r15.1 with SO15152 applied. TVer - Contains the table version (generation level) of the table. This field is valid starting at Datacom r15.1. 2. Updated DCBUFP command with new field. The following field was added to the DCBUFP command: Ratio - The ratio of Use-5+ to Use-1 buffer references.).

Service	Details
LU03529	LU03529 M.C.S. ENTRIES = ++PTF (LU03529) AVAILABLE FRAME QUEUE AVERAGE (AFQA) MAY BE LOW PROBLEM DESCRIPTION: Due to a wrong instruction SYSVIEW is not accounting for the number of freemained frames when deriving the system Available Frame Queue Average (AFQA). The potential for this problem does not exist if option FREEMAINEDFRAMES(NO) is specified in the system DIAGxx parmlib member and/or you are running on hardware older than the z13. SYMPTOMS: MVS data collection metric STGAFQA and the AFQA value shown on the following command displays may be too low: OVERVIEW STORAGE SYSTEMS The available frame count is also in the GSVSMF28 record (CSYSDATA) field CSID_MVS_AFC. IMPACT: More frames may be available than indicated. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 13851 Copyright (C) 2021 CA. All rights reserved. R00260-NM4160-SP0 DESC(AVAILABLE FRAME QUEUE AVERAGE (AFQA) MAY BE LOW). ++VER (Z038) FMID (CNM4G00) PRE (LU00527 LU00548 LU00595 LU00849 LU01511 LU02875 LU03135 LU03433 SO08895 SO09059 SO09589 SO10316 SO10588 SO11875 SO12816 SO13072 SO13538 SO14533 SO14761 SO15081 SO16292) SUP (LT00279 LT01394 LT02966 LT03115 LT03529 LU00279 LU01394 LU02966 LU03115 SO14921 SO14945 ST14921 ST14945) ++HOLD (LU03529) SYSTEM FMID(CNM4G00) REASON (RESTART) DATE (21320) COMMENT (+----------+----------+ | SYSVIEW Version 16.0 | +----------+----------+ |SEQUENCE | After Apply | +----------+----------+ |PURPOSE | To implement the fix | +----------+----------+ |USERS | All SYSVIEW users | |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. Also recycle the SYSVIEW STCs.).

Service	Details
LU03533	LU03533 M.C.S. ENTRIES = ++PTF (LU03533) CPROGRAM DD LINE CMD MAY NOT FIND PROGRAM PROBLEM DESCRIPTION: The DDlist line command on the CPROGRAM command display normally invokes command DDLIST for the DD name displayed in the Library field. If Library is blank then command DDLIST DFHRPL is issued, which will not find the program if it resides in a CICS dynamic library. If Library is blank this fix will invoke the CLIBS command instead. For SYSVIEW 16.0 a new line command LIB is also being added to invoke the CLIBS command. SYMPTOMS: Line command DDlist on CPROGRAM will not find a program that isn't loaded and that does not reside in the DFHRPL concatenation. IMPACT: Harder to determine where the program will be loaded from. CIRCUMVENTION: Issue command 'CLIBS;WHERE progname'. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 15333 Copyright (C) 2021 CA. All rights reserved. R00261-NM4160-SP0 DESC(CPROGRAM DD LINE CMD MAY NOT FIND PROGRAM). ++VER (Z038) FMID (CNM4G00) PRE (LU00595 LU00894 LU00951 LU03135 LU03359 SO10853 SO13538 SO16292) SUP (LT03533) ++HOLD (LU03533) SYSTEM FMID(CNM4G00) REASON (DOC) DATE (21321) COMMENT (+----------+ | SYSVIEW Version 16.0 | +----------+ ********** * PUBLICATION * ********** This PTF introduces new line command LIB on the CPROGRAM command display that invokes the CLIBS command.).

Service	Details
LU03616	LU03616 M.C.S. ENTRIES = ++PTF (LU03616) UPDATE REASON CODES FOR CCS DATA MOVER ERRORS PROBLEM DESCRIPTION: If an error occurs when a call is made to a CCS Data Mover function, the return code and reason code is checked against a table to display a message. There are "catch all" messages in the table so that if a return code is found, but not the reason code, a generic message for that return code is displayed. While this conveys general information about the nature of the error, without the specific reason code it can make debugging difficult. This fix will remove these "catch all" messages so that if a match is not found, the return code and reason code are displayed. The table will also be updated to include the full list of reason codes currently available. SYMPTOMS: Generic, rather than specific, error messages are displayed, such as the following: GSVC062E (SDCS) GSVCZDMR ZDATA-WRITLIST failed. Request parameter list invalid IMPACT: Harder to provide support with specific reason codes when an error occurs. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: SYSVIEW PERFORMANCE MANAGEMENT Version 15.0 SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 Related Problem: SYSVW 15077 Copyright (C) 2021 CA. All rights reserved. R00262-NM4160-SP0 DESC(UPDATE REASON CODES FOR CCS DATA MOVER ERRORS). ++VER (Z038) FMID (CNM4G00) PRE (LU00595 LU02191 LU03135 LU03433 SO08894 SO12816 SO13538 SO14533) SUP (LT03616)

Service	Details
LU03689	LU03689 M.C.S. ENTRIES = ++PTF (LU03689) Z/OS CONNECT V3.0.45 SUPPORT - SMF 123 SUBTYPE 2 FORMATTER PROBLEM DESCRIPTION: In z/OS Connect version 3.0.45, SMF 123 subtype 2 version 2 records were introduced. This fix provides a record formatter for the subtype 2 records. The record formatter can be executed via line commands on the SMFLOG command for SMF 123 subtype 2 records. SYMPTOMS: When attempting to format SMF 123 subtype 2 records, the data displayed will be incorrect. IMPACT: Unable to produce formatted versions of SMF 123 subtype 2 records. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: SYSVIEW Performance Management Version 16.0 Related Problem: SYSVW 15470 Copyright (C) 2021 CA. All rights reserved. R00263-NM4160-SP0 DESC(Z/OS CONNECT V3.0.45 SUPPORT - SMF 123 SUBTYPE 2 FORMATTER). ++VER (Z038) FMID (CNM4G00) PRE (LU00951 LU02191 LU02534 LU02875 LU03135 LU03153 SO09589 SO10098 SO10316 SO10680 SO11028 SO11865 SO11875 SO14533 SO16018 SO16035 SO16108) SUP (LT03689) MCS LU02544 STARTS ON PAGE 0002 MCS LU02890 STARTS ON PAGE 0003 MCS LU03115 STARTS ON PAGE 0004 MCS LU03277 STARTS ON PAGE 0005 MCS LU03359 STARTS ON PAGE 0007 MCS LU03433 STARTS ON PAGE 0017 MCS LU03469 STARTS ON PAGE 0041 MCS LU03480 STARTS ON PAGE 0042 MCS LU03526 STARTS ON PAGE 0043 MCS LU03529 STARTS ON PAGE 0046 MCS LU03533 STARTS ON PAGE 0047 MCS LU03616 STARTS ON PAGE 0048 MCS LU03689 STARTS ON PAGE 0049

Product Family	Product	Release
Systems Management	CA SYSVIEW PERFORMANCE MANAGEMENT	16.00.00

The CA RS 2112 Product/Component Count for this release is 1

CA RS Level	Service	FMID
CAR2112	LU03689	CNM4G00
	LU03616	CNM4G00
	LU03533	CNM4G00
	LU03529	CNM4G00
	LU03526	CNM4G00
	LU03480	CNM4G00
	LU03469	CNM4G00
	LU03433	CNM4G00
	LU03359	CNM4G00
	LU03277	CNM4G00
	LU03115	CNM4G00
	LU02890	CNM4G00
	LU02544	CNM4G00
CAR2111	LU03284	CNM4G00
	LU03153	CNM4G00
	LU03135	CNM4G00
	LU03067	CNM4G00
	LU03050	CNM4G00
	LU03030	CNM4G00
	LU03000	CNM4G00
	LU02966	CNM4G00
	LU02963	CNM4G00
	LU02954	CNM4G00
	LU02613	CNM4G00
CAR2110	LU02875	CNM4G00
	LU02760	CNM4G00
	LU02748	CNM4G00
	LU02664	CNM4G00
	LU02620	CNM4G00
	LU02568	CNM4G00
	LU02548	CNM4G00
	LU02427	CNM4G00
	LU02298	CNM4G00
CAR2109	LU02534	CNM4G00
	LU02441	CNM4G00
	LU02367	CNM4G00
	LU02316	CNM4G00
	LU02262	CNM4G00
	LU02244	CNM4G00
CAR2108	LU02191	CNM4G00
	LU02125	CNM4G00
	LU02032	CNM4G00
	LU02016	CNM4G00
	LU02000	CNM4G00
	LU01709	CNM4G00
CAR2107	LU01896	CNM4G00
	LU01855	CNM4G00

CA RS Level	Service	FMID
	LU01826	CNM4G00
	LU01773	CNM4G00
	LU01687	CNM4G00
	LU01568	CNM4G00
	LU01522	CNM4G00
	LU01511	CNM4G00
	LU01501	CNM4G00
	LU01276	CNM4G00
CAR2106	LU01394	CNM4G00
	LU01368	CNM4G00
	LU01353	CNM4G00
	LU01337	CNM4G00
	LU01138	CNM4G00
	LU01095	CNM4G00
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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
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