

CA SYSVIEW Performance Management 16.0
CA RS 2101 Service List

1

Service	Description	Type
S013275	CTSPools shows incorrect connected status	PTF
S015790	JVM problems when monitored by JVM data collector agent	*HIP/PRP*
S016018	NEW Z/OS Connect Enterprise Edition monitoring	PTF
The CA RS 2101 service count for this release is 3		

CA SYSVIEW Performance Management
CA RS 2101 Service List for CNM4G00

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FMID	Service	Description	Type
CNM4G00	S013275	CTSPOOLS SHOWS INCORRECT CONNECTED STATUS	PTF
	S015790	JVM PROBLEMS WHEN MONITORED BY JVM DATA COLLECTOR AGENT	*HIP/PRP*
	S016018	NEW Z/OS CONNECT ENTERPRISE EDITION MONITORING	PTF
The CA RS 2101 service count for this FMID is 3			

Service	Details
SO13275	<p>SO13275 M.C.S. ENTRIES = ++PTF (SO13275)</p> <p>CTSPools SHOWS INCORRECT CONNECTED STATUS</p> <p>PROBLEM DESCRIPTION:</p> <p>The CTSPools command will under some circumstances show a CONNECTED status for disconnected CICS Temporary Storage Pools.</p> <p>SYMPTOMS:</p> <p>The CTSPools display will show the correct number of 'Pools connected' in the info area, but the entries for some pools will show CONNECTED status when not connected.</p> <p>IMPACT:</p> <p>Connection status of a CTSPool may be incorrect.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA SYSVIEW Release 15.0</p> <p>CA SYSVIEW Release 16.0</p> <p>Related Problem:</p> <p>SYSVW 2514</p> <p>Copyright (C) 2020 CA. All rights reserved. R00103-NM4160-SP0</p> <p>DESC(CTSPools SHOWS INCORRECT CONNECTED STATUS).</p> <p>++VER (Z038)</p> <p>FMID (CNM4G00)</p> <p>PRE (SO12816)</p> <p>SUP (ST13275)</p> <p>++HOLD (SO13275) SYSTEM FMID(CNM4G00)</p> <p>REASON (RESTART) DATE (20343)</p> <p>COMMENT (</p> <pre> +-----+ CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 +-----+-----+ SEQUENCE Before Accept +-----+-----+ 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 the CICS region, or use the GSVT (terminate) and GSVS (start) transactions to recycle SYSVIEW for CICS within the CICS region.).</pre>

Service	Details
SO15790	<p>SO15790 M.C.S. ENTRIES = ++PTF (SO15790)</p> <p>JVM PROBLEMS WHEN MONITORED BY JVM DATA COLLECTOR AGENT</p> <p>PROBLEM DESCRIPTION:</p> <p>The SYSVIEW JVM Data Collector Agent encounters an error condition which may affect the JVM the Agent is monitoring. The error condition may result in the following problems:</p> <ul style="list-style-type: none"> o The JVM in which the SYSVIEW JVM Data Collector Agent is monitoring may behave unpredictably, or hang. o The address space in which the JVM is running that is being monitored by the SYSVIEW JVM Data Collector Agent may behave unpredictably, or hang. <p>For example, a CICS region can run one or more JVMs. Not only are the JVMs susceptible to a problem, but the entire address space susceptible if the application utilizes Pause Elements.</p> <p>Examples of applications that may be affected (not comprehensive):</p> <ul style="list-style-type: none"> o JZOS Applications o CICS JVM Servers o Apache Tomcat Servers o z/OS Connect o The SYSVIEW JVM Data Collector Agent may hang. <p>The cause of the problem is that the SYSVIEW JVM Data Collector Agent encountered return code 56 (x38) from the IBM z/OS Pause Element IEAVAPE service, which means the address space Pause Element limit has been reached. There is a limit of unauthorized Pause Elements allowed by an address space, which is 2040. After the limit has been reached no more unauthorized Pause Elements may be allocated. This will result in any future requests by the JVM, address space, or the SYSVIEW JVM Data Collector Agent to fail. Depending on the applications reliance on Pause Elements, varying and unpredictable problems may occur.</p> <p>SYMPTOMS:</p> <p>An address space with a JVM that is also running the SYSVIEW JVM Data Collector Agent may hang, abend, or experience unpredictable problems.</p> <p>IMPACT:</p> <p>Potential outage to JVM based applications or address spaces that contains JVMs.</p> <p>It is recommended to stop the SYSVIEW JVM Data Collector Agent until this fix is applied.</p> <p>To dynamically stop a SYSVIEW JVM Data Collector Agent without recycling a JVM, use the STOP line command on the JVMLIST command on each monitored JVM.</p> <p>To prevent a JVM Data Collector Agent from starting when a JVM is started, the -agentpath option of the JVM needs modified or removed. See the "Configure the JVM Data Collector Agent" page on the SYSVIEW Tech Docs Portal for more information.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>It is recommended to stop the SYSVIEW JVM Data Collector Agent until this fix is applied.</p> <p>To dynamically stop a SYSVIEW JVM Data Collector Agent without recycling a JVM, use the STOP line command on the JVMLIST command on each monitored JVM.</p> <p>To prevent a JVM Data Collector Agent from starting when a JVM is started, the -agentpath option of the JVM needs modified or removed. See</p>

Service	Details
	<p>the "Configure the JVM Data Collector Agent" page on the SYSVIEW Tech Docs Portal for more information.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA SYSVIEW Release 15.0</p> <p>CA SYSVIEW Release 16.0</p> <p>Related Problem:</p> <p>SYSVW 2569</p> <p>Copyright (C) 2020 CA. All rights reserved. R00161-NM4160-SP0</p> <p>DESC(JVM PROBLEMS WHEN MONITORED BY JVM DATA COLLECTOR AGENT) .</p> <p>++VER (Z038)</p> <p>FMID (CNM4G00)</p> <p>PRE (S008681 S009059 S009589 S009844 S010269 S010316 S010680 S011028 S011632 S011875 S012347 S012629 S012816 S013072 S013116 S013187 S013538 S014533 S015546)</p> <p>SUP (AS10269 BS12816 HC08481 S010411 S013612 ST10411 ST13612 ST15790)</p> <p>++HOLD (S015790) SYSTEM FMID(CNM4G00)</p> <p>REASON (RESTART) DATE (20352)</p> <p>COMMENT (</p> <pre> +-----+ CA SYSVIEW PERFORMANCE MANAGEMENT Version 16.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE To implement the fix +-----+ USERS All users of SYSVIEW AFFECTED +-----+ KNOWLEDGE Product Administration REQUIRED +-----+ ACCESS Product libraries REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** If you do not use the JVM component then this HOLD can be ignored. 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. Follow these steps to implement the change: 1. Deploy the agent run-time from the SMP/E managed directory ".../cnm4g00/CNM4JVMD/" (DDEF CNM4JVMD) to the run-time directory ".../cnm4g00/runtime/". The deploy can be performed by running the sysviewhlq.SAMPJCL(INST0006) install job. 2. Stop the JVMs configured to run the agent. 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. Start the JVMs configured to run the agent. Notes: </pre>

Service	Details
	<p>1. This fix creates an incompatibility between the SYSVIEW STC and the JVM data collector agent. While it is safe not to upgrade the agent binaries immediately, an agent running back-level binaries will be unable to communicate with the SYSVIEW STC. This symptom can be identified on the JVMLIST command's MON column. Any JVM that shows MONX in the MON column is running a mismatched service level. 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.</p> <p>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)) .</p>

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SO16018	<p>SO16018 M.C.S. ENTRIES = ++PTF (SO16018)</p> <p>NEW Z/OS CONNECT ENTERPRISE EDITION MONITORING</p> <p>ENHANCEMENT DESCRIPTION:</p> <p>This feature PTF contains the following enhancements in support of monitoring IBM z/OS Connect Enterprise Edition. CA SYSVIEW supports z/OS Connect EE V3.0 and higher.</p> <ol style="list-style-type: none"> Enhanced JVM Data Collector Agent. <p>The JVM Data Collector Agent was enhanced to monitor z/OS Connect. The agent is required to be configured in each z/OS Connect instance that is to be monitored. Once the agent is configured, SYSVIEW can display data about the monitored z/OS Connect on several new displays.</p> <p>There are several new z/OS Connect specific options that can be specified when configuring the JVM Data Collector Agent. More information on the new options can be found in the SYSVIEW Tech Docs Portal page titled "JVM Data Collection" under the "z/OS Connect Interceptors" section.</p> <ol style="list-style-type: none"> New ZCNLIST command. <p>The ZCNLIST command dynamically discovers all z/OS Connect instances on the systems and displays them in a list. Address space level performance information displays for each z/OS Connect instance. In addition, high-level z/OS Connect configuration information is displayed. The ZCNLIST command supports displaying one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <ol style="list-style-type: none"> New ZCNSET command. <p>The ZCNSET command is a function command that performs administrative functions on a given z/OS Connect instance. For example, the ZCNSET command can start and stop a given API, enable and disable interceptors, and flush pending SMF records from a low activity instance. The ZCNSET command supports performing functions on one or more z/OS Connect instances in the same LPAR and multiple LPARs.</p> <ol style="list-style-type: none"> New ZCNRLOG command. <p>The ZCNRLOG command displays a log of z/OS Connect request SMF records. Statistics are displayed for each request such as date, time, target URI, elapsed time, etc. Each record can be drilled down into to see a greater level of detailed data.</p> <p>The ZCNRLOG command is designed to be pointed to an SMF log stream. This requires SMF to be writing to log streams, not MAN data sets. Alternatively, the SYSVIEW SMFLOG log stream can capture these SMF records by configuring SMFDATA to log the records. More information on the logging of z/OS Connect SMF records can be found in the SYSVIEW Tech Docs Portal page titled "z/OS Connect SMF Records".</p> <ol style="list-style-type: none"> New ZCNSOR command. <p>The ZCNSOR command lists all systems of record (SOR) for each z/OS Connect instance. Statistics are displayed for each SOR such as gets, puts, deletes, posts, etc. The ZCNSOR command supports displaying SORs for one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <ol style="list-style-type: none"> New ZCNURIS command. <p>The ZCNURIS command displays URI information for each z/OS Connect instance. URI statistics are displayed for each instance such as total requests, failed requests, timed out requests, etc. The ZCNURIS command supports displaying one or more z/OS Connect</p>

Service	Details
	<p>instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>7. New ZCNSERV command.</p> <p>The ZCNSERV command lists all services for each z/OS Connect instance. Statistics are displayed for each service such as total requests, failed requests, timed out requests, etc. Line commands are available to start and stop each service. The ZCNSERV command supports displaying services for one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>8. New ZCNAPIS command.</p> <p>The ZCNAPIS command lists all APIs for each z/OS Connect instance. Statistics are displayed for each API such as total requests, failed requests, timed out requests, etc. Line commands are available to start and stop each API. The ZCNAPIS command supports displaying APIs for one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>9. New ZOSCONNECT ASIType.</p> <p>A new ASIType was added to allow various CA SYSVIEW commands to easily identify z/OS Connect address spaces. A new ZOSCONNECT ASIType appears in the ASIType columns on ASLIST and ACTIVITY when a z/OS Connect was identified.</p> <p>10. New ZCN menu.</p> <p>A new ZCN menu was added. The menu is found under the JVM and JVMLE menus, and contains a new submenu for z/OS connect called ZCN. The new menu can be accessed directly by issuing MENU ZCN.</p> <p>11. New help topic to assist configuration of JVM Data Collector Agent.</p> <p>A new "How to Configure a JVM Data Collector Agent" help topic was added to the TOPICS command. The topic describes how to configure SYSVIEW's JVM Data Collector Agent, which is required to monitor z/OS Connect.</p> <p>12. New help topic describing z/OS Connect SMF records.</p> <p>A new "z/OS Connect SMF Records" help topic was added to the TOPICS command. The topic describes the z/OS Connect type 123 SMF record, how to determine if they are being logged, and where they can be viewed.</p> <p>Unrelated to z/OS Connect, but included in this PTF are the following:</p> <p>1. Updated FTPCA command to warn if FTP is used.</p> <p>The FTPCA command has been updated to warn users about transferring data with unsecure data transport through FTP instead of through more secure SFTP. If a user attempts to use FTP, warning message FTPC023A is displayed urging the user to consider using SFTP. Note, this message is displayed only when the Confirm option is set to YES. There is no change in behavior other than the text of the FTPC023A message changing when FTP is used.</p> <p>2. New TESTIT command.</p> <p>A new TESTIT command was added for testing/diagnostic purposes and should only be used at the direction of support.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA SYSVIEW</p> <p>Release 16.0</p> <p>Related Problem:</p> <p>SYSVW 2567</p> <p>Copyright (C) 2020 CA. All rights reserved. R00163-NM4160-SP0</p> <p>DESC(NEW Z/OS CONNECT ENTERPRISE EDITION MONITORING).</p> <p>++VER (Z038)</p>

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	<p>FMID (CNM4G00)</p> <p>PRE (S008681 S008743 S008793 S009059 S009537 S009589 S009844 S010098 S010197 S010269 S010316 S010382 S010497 S010680 S010853 S011028 S011553 S011632 S011642 S011865 S011875 S012125 S012200 S012347 S012629 S012721 S012816 S012880 S013072 S013116 S013187 S013188 S013240 S013538 S013989 S014411 S014533 S014894 S015081 S015210 S015546 S015790)</p> <p>SUP (AS10269 BS12816 S010411 S012354 S013612 ST10411 ST12354 ST13612 ST16012 ST16018)</p> <p>++HOLD (S016018) SYSTEM FMID(CNM4G00)</p> <p>REASON (ENH) DATE (20356)</p> <p>COMMENT (</p> <pre> +-----+ 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 * ***** </pre> <p>ENHANCEMENT DESCRIPTION:</p> <p>This feature PTF contains the following enhancements in support of monitoring IBM z/OS Connect Enterprise Edition. CA SYSVIEW supports z/OS Connect EE V3.0 and higher.</p> <ol style="list-style-type: none"> Enhanced JVM Data Collector Agent. The JVM Data Collector Agent was enhanced to monitor z/OS Connect. The agent is required to be configured in each z/OS Connect instance that is to be monitored. Once the agent is configured, SYSVIEW can display data about the monitored z/OS Connect on several new displays. There are several new z/OS Connect specific options that can be specified when configuring the JVM Data Collector Agent. More information on the new options can be found in the SYSVIEW Tech Docs Portal page titled "JVM Data Collection" under the "z/OS Connect Interceptors" section. New ZCNLIST command. The ZCNLIST command dynamically discovers all z/OS Connect instances on the systems and displays them in a list. Address space level performance information displays for each z/OS Connect instance. In addition, high-level z/OS Connect configuration information is displayed. The ZCNLIST command supports displaying one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).

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	<p>3. New ZCNSET command.</p> <p>The ZCNSET command is a function command that performs administrative functions on a given z/OS Connect instance. For example, the ZCNSET command can start and stop a given API, enable and disable interceptors, and flush pending SMF records from a low activity instance. The ZCNSET command supports performing functions on one or more z/OS Connect instances in the same LPAR and multiple LPARs.</p> <p>4. New ZCNRLOG command.</p> <p>The ZCNRLOG command displays a log of z/OS Connect request SMF records. Statistics are displayed for each request such as date, time, target URI, elapsed time, etc. Each record can be drilled down into to see a greater level of detailed data.</p> <p>The ZCNRLOG command is designed to be pointed to an SMF log stream. This requires SMF to be writing to log streams, not MAN data sets. Alternatively, the SYSVIEW SMFLOG log stream can capture these SMF records by configuring SMFDATA to log the records. More information on the logging of z/OS Connect SMF records can be found in the SYSVIEW Tech Docs Portal page titled "z/OS Connect SMF Records".</p> <p>5. New ZCNSOR command.</p> <p>The ZCNSOR command lists all systems of record (SOR) for each z/OS Connect instance. Statistics are displayed for each SOR such as gets, puts, deletes, posts, etc. The ZCNSOR command supports displaying SORs for one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>6. New ZCNURIS command.</p> <p>The ZCNURIS command displays URI information for each z/OS Connect instance. URI statistics are displayed for each instance such as total requests, failed requests, timed out requests, etc. The ZCNURIS command supports displaying one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>7. New ZCNSERV command.</p> <p>The ZCNSERV command lists all services for each z/OS Connect instance. Statistics are displayed for each service such as total requests, failed requests, timed out requests, etc. Line commands are available to start and stop each service. The ZCNSERV command supports displaying services for one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>8. New ZCNAPIS command.</p> <p>The ZCNAPIS command lists all APIs for each z/OS Connect instance. Statistics are displayed for each API such as total requests, failed requests, timed out requests, etc. Line commands are available to start and stop each API. The ZCNAPIS command supports displaying API for one or more z/OS Connect instances in the same LPAR and multiple LPARs (XSYSTEM).</p> <p>9. New ZOSCONNECT ASIType.</p> <p>A new ASIType was added to allow various CA SYSVIEW commands to easily identify z/OS Connect address spaces. A new ZOSCONNECT ASIType appears in the ASIType columns on ASLIST and ACTIVITY when a z/OS Connect was identified.</p> <p>10. New ZCN menu.</p> <p>A new ZCN menu was added. The menu is found under the JVM and JVMLE menus, and contains a new submenu for z/OS connect called ZCN. The new menu can be accessed directly by issuing MENU ZCN.</p> <p>11. New help topic to assist configuration of JVM Data Collector Agent.</p>

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Service	Details
	<p>pick up the change, or the following steps can be followed to implement the change dynamically:</p> <ol style="list-style-type: none"> 1. Use the GSVT (terminate) transaction to stop SYSVIEW for CICS in the CICS region. 2. Perform a CICS NEWCOPY for program GSVCGSVS. 3. Use the GSVS (start) transaction to bring SYSVIEW for CICS back up in the CICS region. <p>* - - - - -</p> <p>If you do not use the JVM component then this HOLD can be ignored. 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. Follow these steps to implement the change:</p> <ol style="list-style-type: none"> 1. Deploy the agent run-time from the SMP/E managed directory <code>"../cnm4g00/CNM4JVMD/"</code> (DDDEF CNM4JVMD) to the run-time directory <code>"../cnm4g00/runtime/"</code>. The deploy can be performed by running the <code>sysviewhlq.SAMPJCL(INST0006)</code> install job. 2. Stop the JVMs configured to run the agent. 3. Start the JVMs configured to run the agent. <p>Notes:</p> <ol style="list-style-type: none"> 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: <code>JVMARGS SYSTEM ; SELECT ARGUMENT CN -AGENTPATH</code> Ensure all run-time directories are updated with the new binaries. <p>* - - - - -</p> <p>Apply this fix and refresh LLA.</p> <p>The LOGR subsystem exit (GSVXLGEX) must reside in a linklist data set. If the SYSVIEW loadlib is defined to a linklist data set, then perform an LLA REFRESH. If the SYSVIEW loadlib is not defined to a linklist data set, then the following modules in linklist must be replaced before an LLA REFRESH:</p> <p>GSVXLGEX GSVXLGXG (alias of GSVXLGEX)</p> <p>* - - - - -</p> <p>).</p>

CA SYSVIEW Performance Management 16.0
CA RS 2101 Product/Component Listing

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Product Family	Product	Release
Systems Management	CA SYSVIEW PERFORMANCE MANAGEMENT	16.00.00
The CA RS 2101 Product/Component Count for this release is 1		

CA RS Level	Service	FMID
CAR2101	S016018	CNM4G00
	S015790	CNM4G00
	S013275	CNM4G00
CAR2012	S015783	CNM4G00
	S015746	CNM4G00
	S015546	CNM4G00
	S015518	CNM4G00
	S015433	CNM4G00
	S015374	CNM4G00
CAR2011	S015474	CNM4G00
	S015325	CNM4G00
	S015274	CNM4G00
	S015212	CNM4G00
	S015210	CNM4G00
	S015206	CNM4G00
	S015081	CNM4G00
	S015053	CNM4G00
	S014964	CNM4G00
	S014985	CNM4G00
CAR2010	S014921	CNM4G00
	S014894	CNM4G00
	S014768	CNM4G00
	S014761	CNM4G00
	S014746	CNM4G00
	S014740	CNM4G00
	S014696	CNM4G00
	S014661	CNM4G00
CAR2009	S014653	CNM4G00
	S014533	CNM4G00
	S014487	CNM4G00
	S014442	CNM4G00
	S014411	CNM4G00
	S014363	CNM4G00
	S014361	CNM4G00
	S014259	CNM4G00
	S013364	CNM4G00
	S013186	CNM4G00
CAR2008	S014130	CNM4G00
	S014092	CNM4G00
	S014004	CNM4G00
	S013996	CNM4G00
	S013989	CNM4G00
	S013984	CNM4G00
	S013927	CNM4G00
	S013792	CNM4G00
	S013701	CNM4G00
	S013485	CNM4G00

CA RS Level	Service	FMID
	S013350	CNM4G00
	S013268	CNM4G00
CAR2007	S013782	CNM4G00
	S013779	CNM4G00
	S013751	CNM4G00
	S013612	CNM4G00
	S013538	CNM4G00
	S013529	CNM4G00
	S013408	CNM4G00
	S013188	CNM4G00
CAR2006	S013276	CNM4G00
	S013240	CNM4G00
	S013228	CNM4G00
	S013187	CNM4G00
	S013116	CNM4G00
	S013089	CNM4G00
	S013072	CNM4G00
	S013033	CNM4G00
CAR2005	S012880	CNM4G00
	S012816	CNM4G00
	S012773	CNM4G00
	S012721	CNM4G00
	S012629	CNM4G00
	S012625	CNM4G00
	S012580	CNM4G00
	S012330	CNM4G00
CAR2004	S012516	CNM4G00
	S012474	CNM4G00
	S012454	CNM4G00
	S012406	CNM4G00
	S012401	CNM4G00
	S012381	CNM4G00
	S012354	CNM4G00
	S012347	CNM4G00
	S012257	CNM4G00
	S012200	CNM4G00
	S012163	CNM4G00
CAR2003	S012125	CNM4G00
	S012051	CNM4G00
	S012050	CNM4G00
	S011959	CNM4G00
	S011955	CNM4G00
	S011898	CNM4G00
	S011891	CNM4G00
	S011875	CNM4G00
	S011865	CNM4G00
	S011762	CNM4G00

CA RS Level	Service	FMID
	S010411	CNM4G00
CAR2002	S011830	CNM4G00
	S011821	CNM4G00
	S011798	CNM4G00
	S011683	CNM4G00
	S011642	CNM4G00
	S011632	CNM4G00
	S011553	CNM4G00
	S011361	CNM4G00
CAR2001	S011122	CNM4G00
	S011028	CNM4G00
CAR1912	S010853	CNM4G00
	S010849	CNM4G00
	S010710	CNM4G00
	S010680	CNM4G00
	S010649	CNM4G00
	S010588	CNM4G00
	S010541	CNM4G00
CAR1911	S010537	CNM4G00
	S010497	CNM4G00
	S010493	CNM4G00
	S010484	CNM4G00
	S010421	CNM4G00
	S010382	CNM4G00
	S010332	CNM4G00
	S010326	CNM4G00
	S010316	CNM4G00
	S010269	CNM4G00
	S010214	CNM4G00
	S010209	CNM4G00
CAR1910	S010206	CNM4G00
	S010197	CNM4G00
	S010143	CNM4G00
	S010098	CNM4G00
	S009844	CNM4G00
	S009632	CNM4G00
CAR1909	S009772	CNM4G00
	S009681	CNM4G00
	S009650	CNM4G00
	S009607	CNM4G00
	S009589	CNM4G00
	S009537	CNM4G00
	S008894	CNM4G00
CAR1908	S009287	CNM4G00
	S009281	CNM4G00
	S009059	CNM4G00
	S009013	CNM4G00

CA RS Level	Service	FMID
	S008793	CNM4G00
CAR1907	S008895	CNM4G00
	S008743	CNM4G00
	S008740	CNM4G00
	S008698	CNM4G00
	S008681	CNM4G00
	S008674	CNM4G00
	S008553	CNM4G00
	S008544	CNM4G00
	S008502	CNM4G00
	S008485	CNM4G00
	S008459	CNM4G00
	S008228	CNM4G00