

CA Vantage Storage Resource Manager 14.0
CA RS 2008 Service List

1

Service	Description	Type
SO13209	FIXES FOR CA VANTAGE DFSMSHSM OCDS AUDIT	PTF
SO13622	NEW CA VANTAGE FICON AND DASD ACTIVITY PERFORMANCE OBJECTS	PTF
SO13844	THIN PROVISIONING - SPACEREL SUPPORT FOR IBM DS888* DISKS	PTF
SO13928	CA VANTAGE REST API INTEGRATION WITH ZOWE API ML	PTF
The CA RS 2008 service count for this release is 4		

CA Vantage Storage Resource Manager
CA RS 2008 Service List for CCTUE00

2

FMID	Service	Description	Type
CCTUE00	S013209	FIXES FOR CA VANTAGE DFSMSHSM OCDS AUDIT	PTF
	S013622	NEW CA VANTAGE FICON AND DASD ACTIVITY PERFORMANCE OBJECTS	PTF
	S013844	THIN PROVISIONING - SPACEREL SUPPORT FOR IBM DS888* DISKS	PTF
	S013928	CA VANTAGE REST API INTEGRATION WITH ZOWE API ML	PTF
The CA RS 2008 service count for this FMID is 4			

Service	Details				
SO13209	<p>SO13209 M.C.S. ENTRIES = ++PTF (SO13209)</p> <p>FIXES FOR CA VANTAGE DFSMSHSM OCDS AUDIT</p> <p>ENHANCEMENT DESCRIPTION:</p> <p>This SYSMOD enhances the CA Vantage audit processing for HSM OCDS as follows:</p> <ul style="list-style-type: none"> * Decreases significantly the time needed for the audit execution * Reduces memory and CPU resources consumption for audits * Provides support for zIIP <p>Additionally, this SYSMOD:</p> <p>Adds two new columns to the "(HSMAOCD) DFSMSHsm OCDS Audit Details" object located under "Backup and Archive Management - Audits - Details":</p> <ul style="list-style-type: none"> * TTC entry (key of the OCDS volume keeping the audited data set) * Catalog (name of the catalog assigned to the original user data set) <p>Adds the new RACF column (indicates if Data Set is RACF protected) to the "(HSMCC) DFSMSHsm BCDS Backup Version Records" object located under "Backup and Archive Management - Control Data Sets".</p> <p>The TTC Entry field is now visible in the "(HSMTTDSN) DFSMSHsm OCDS Tape Data Sets" object located under "Backup and Archive Management - Control Data Sets - OCDS".</p> <p>SYMPTOMS:</p> <p>None.</p> <p>IMPACT:</p> <p>None.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <table> <tr> <td>CA Vantage SRM</td> <td>Release 14.0</td> </tr> <tr> <td>CA Vantage GMI</td> <td>Release 14.0</td> </tr> </table> <p>Related Problem:</p> <p>VANT 9970</p> <p>Copyright (C) 2020 CA. All rights reserved. R00356-CTU140-SP1</p> <p>DESC(FIXES FOR CA VANTAGE DFSMSHSM OCDS AUDIT).</p> <p>++VER (Z038)</p> <p>FMID (CCTUE00)</p> <p>PRE (R087496 R089834 R092145 S008213 S011427 S013736)</p> <p>SUP (ST13012 ST13209)</p> <p>++HOLD (SO13209) SYSTEM FMID(CCTUE00)</p> <p>REASON (ENH) DATE (20203)</p> <p>COMMENT (</p> <p>-----+ CA Vantage SRM and CA Vantage GMI Version 14.0 -----+-----+ SEQUENCE After Apply -----+-----+ PURPOSE Describes a new enhancement to current objects. -----+-----+ USERS All users. AFFECTED -----+-----+ KNOWLEDGE CA Vantage customization. REQUIRED -----+-----+ ACCESS CA Vantage libraries. </p>	CA Vantage SRM	Release 14.0	CA Vantage GMI	Release 14.0
CA Vantage SRM	Release 14.0				
CA Vantage GMI	Release 14.0				

Service	Details
REQUIRED	
+-----+-----+-----+	+-----+-----+
*****	*****
* STEPS TO PERFORM *	
*****	*****
This SYSMOD enhances the CA Vantage audit processing for HSM OCDS as follows:	
* Decreases significantly the time needed for the audit execution	
* Reduces memory and CPU resources consumption for audits	
* Provides support for zIIP	
Additionally, this SYSMOD:	
Adds two new columns to the "(HSMAOCD) DFSMSHsm OCDS Audit Details" object located under "Backup and Archive Management - Audits - Details":	
* TTC entry (key of the OCDS volume keeping the audited data set)	
* Catalog (name of the catalog assigned to the original user data set)	
Adds the new RACF column (indicates if Data Set is RACF protected) to the "(HSMCC) DFSMSHsm BCDS Backup Version Records" object located under "Backup and Archive Management - Control Data Sets".	
The TTC Entry field is now visible in the "(HSMTTDSN) DFSMSHsm OCDS Tape Data Sets" object located under "Backup and Archive Management - Control Data Sets - OCDS".	
). ++HOLD (SO13209) SYSTEM FMID(CCTUE00)	
REASON (EXIT) DATE (20203)	
COMMENT (
+-----+-----+-----+	+-----+-----+-----+
CA Vantage SRM and CA Vantage GMI	Version 14.0
+-----+-----+-----+	+-----+-----+-----+
SEQUENCE After Apply	
+-----+-----+-----+	+-----+-----+-----+
SEQUENCE Before using the following objects:	
(HSMAOCD) DFSMSHsm OCDS Audit Details	
(HSMCC) DFSMSHsm BCDS Backup Version Records	
(HSMTTDSN) DFSMSHsm OCDS Tape Data Sets	
(HSMCD) DFSMSHsm MCDS Records	
+-----+-----+-----+	+-----+-----+-----+
PURPOSE New Map of objects.	
+-----+-----+-----+	+-----+-----+-----+
USERS All users of the following objects:	
AFFECTED (HSMAOCD) DFSMSHsm OCDS Audit Details	
(HSMCC) DFSMSHsm BCDS Backup Version Records	
(HSMTTDSN) DFSMSHsm OCDS Tape Data Sets	
(HSMCD) DFSMSHsm MCDS Records	
or users using log or capture records of related objects.	
+-----+-----+-----+	+-----+-----+-----+
KNOWLEDGE CA Vantage Customization.	
REQUIRED	
+-----+-----+-----+	+-----+-----+-----+
ACCESS CA Vantage libraries.	
REQUIRED	
+-----+-----+-----+	+-----+-----+-----+
*****	*****
* STEPS TO PERFORM *	

Service	Details
	<pre>***** Mappings have changed for the following objects: * Obj=(HSMAOCD) DFSMShsm OCDS Audit Details Column "TTC entry" is added. Column "Catalog" is added. * Obj=(HSMCC) DFSMShsm BCDS Backup Version Records Column "RACF" is added. Column "Hccflags" format has been changed from CHAR to HEX. * Obj=(HSMTTDSN) DFSMShsm OCDS Tape Data Sets Column "TTC entry" has become visible. * Obj=(HSMCD) DFSMShsm MCDS Records Column "Mcdflags" format has been changed from CHAR TO HEX. 1. Reload the related Windows Client object definition on any system where this maintenance is installed. 2. If you have Windows Client User View or Web Client Dashboard created on any of the objects above, go to View and Output Object definition or Dashboard setting and ensure that the columns of your interest are selected to be displayed. 3. If any of the objects above are specified in Summary, Joined, Delta, User view, Console or Dashboard object definition filters, review the fields in the filter to ensure that the correct field or value is tested. 4. If any of the fields above are specified in SYSTEM, LOG, GOA, AUDIT, MESSAGE script filter criteria, review the script filter criteria and ensure that correct field or value is being tested. 5. Review and update your programs or templates that use the objects above. Update your programs or templates that work with log or capture records of the objects above. For more information, see the MAPPINGS member distributed in the CCTUSAMP library.).</pre>

Service	Details				
SO13622	<p>SO13622 M.C.S. ENTRIES = ++PTF (SO13622)</p> <p>NEW CA VANTAGE FICON AND DASD ACTIVITY PERFORMANCE OBJECTS</p> <p>ENHANCEMENT DESCRIPTION:</p> <p>This sysmod delivers following five new objects under the Performance Management - FICON in the CA Vantage object tree:</p> <ul style="list-style-type: none"> * (OBJ092030) FICON Channel Path Activity <p>The FICON Channel Path Activity object provides information about activities on the individual FICON channel paths. You can use this object to see how each FICON channel path is utilized and if the path is busy during the RMF recording period.</p> <ul style="list-style-type: none"> * (OBJ092031) Link Diagnostic Performance <p>The Link Diagnostic Information Performance object shows each FICON channel, switch entry port, switch exit port, and control unit port that is accessible to z/OS.</p> <p>The object shows the link diagnostic information for a particular port. This includes operational information related to the optics, such as the transmit and receive power, current and capable operating speed, and error counters.</p> <p>This information can be used to diagnose I/O errors and performance issues that might be caused by fiber optic infrastructure issues or incorrect I/O configurations.</p> <ul style="list-style-type: none"> * (OBJ092035) DASD Activity Configurations <p>The DASD Activity Configurations object shows the device number, type, storage group to which related volume belongs and other similar configuration data collected about the device.</p> <ul style="list-style-type: none"> * (OBJ092036) DASD Activity Performance <p>The DASD Activity Performance object shows the number of requests (active or queued) on the device, pending and connect time to service those requests.</p> <ul style="list-style-type: none"> * (OBJ092037) Link Diagnostic Configurations <p>The Link Diagnostic Information Configurations object shows data about physical status, such as Voltage High Alarm, Transceiver High Temperature Warning for each FICON channel, switch entry port, switch exit port, and control unit port that is accessible to z/OS.</p> <p>SYMPTOMS:</p> <p>None.</p> <p>IMPACT:</p> <p>None.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <table> <tbody> <tr> <td>CA Vantage SRM Release</td> <td>14.0</td> </tr> <tr> <td>CA Vantage GMI Release</td> <td>14.0</td> </tr> </tbody> </table> <p>Related Problem:</p> <p>VANT 9990</p> <p>Copyright (C) 2020 CA. All rights reserved. R00370-CTU140-SP1</p> <p>DESC(NEW CA VANTAGE FICON AND DASD ACTIVITY PERFORMANCE OBJECTS).</p> <p>++VER (Z038)</p> <p>FMID (CCTUE00)</p> <p>PRE (R092145 R099407 S012492 S013380)</p> <p>SUP (ST13622)</p> <p>++HOLD (SO13622) SYSTEM FMID(CCTUE00)</p>	CA Vantage SRM Release	14.0	CA Vantage GMI Release	14.0
CA Vantage SRM Release	14.0				
CA Vantage GMI Release	14.0				

Service	Details	
	REASON (ACTION)	DATE (20189)
	COMMENT (
	+-----+-----+	
	CA Vantage SRM and CA Vantage GMI	Version 14.0
	+-----+-----+	
	SEQUENCE After Apply	
	Before using any CA Vantage object that is based on	
	collection of SMF records.	
	+-----+-----+	
	PURPOSE To load the new version of VANSFU83 CA Vantage exit	
	that is responsible for collection of SMF records.	
	+-----+-----+	
	USERS All current users of any CA Vantage object that is	
	AFFECTED based on collection of SMF records.	
	+-----+-----+	
	KNOWLEDGE CA Vantage configuration and customization.	
	REQUIRED	
	+-----+-----+	
	ACCESS CA Vantage libraries.	
	REQUIRED	
	+-----+-----+	

	* STEPS TO PERFORM *	

	1. Recycle the CA Vantage host task.	
	2. Issue the following MODIFY commands to install the new SMF exit:	
	I. F SAMS,SMF,REMOVE	
	II.F SAMS,SMF,REINSTALL	
	Alternatively, wait for the next IPL. During IPL, the new CA Vantage	
	SMF exit is loaded and activated automatically.	
). .	
	++HOLD (SO13622) SYSTEM FMID(CCTUE00)	
	REASON (ENH)	DATE (20189)
	COMMENT (
	+-----+-----+	
	CA Vantage SRM and CA Vantage GMI	Version 14.0
	+-----+-----+	
	SEQUENCE After Apply	
	Before using the following CA Vantage objects:	
	(OBJ092030) FICON Channel Path Activity	
	(OBJ092031) Link Diagnostic Performance	
	(OBJ092035) DASD Activity Configurations	
	(OBJ092036) DASD Activity Performance	
	(OBJ092037) Link Diagnostic Configurations	
	+-----+-----+	
	PURPOSE Describes the new enhancement to CA Vantage.	
	+-----+-----+	
	USERS All users interested in FICON Performance monitoring.	
	AFFECTED	
	+-----+-----+	
	KNOWLEDGE CA Vantage customization.	
	REQUIRED	
	+-----+-----+	
	ACCESS CA Vantage libraries.	

Service	Details
	<pre> REQUIRED +-----+-----+ ***** * STEPS TO PERFORM * ***** This sysmod delivers following five new objects under the Performance Management - FICON in the CA Vantage object tree: * (OBJ092030) FICON Channel Path Activity The FICON Channel Path Activity object provides information about activities on the individual FICON channel paths. You can use this object to see how each FICON channel path is utilized and if the path is busy during the RMF recording period. * (OBJ092031) Link Diagnostic Performance The Link Diagnostic Information Performance object shows each FICON channel, switch entry port, switch exit port, and control unit Port that is accessible to z/OS. The object shows the link diagnostic information for a particular port. This includes operational information related to the optics, such as the transmit and receive power, current and capable operating speed, and error counters. This information can be used to diagnose I/O errors and performance issues that might be caused by fiber optic infrastructure issues or incorrect I/O configurations. * (OBJ092035) DASD Activity Configurations The DASD Activity Configurations object shows the device number, type, storage group to which related volume belongs and other similar configuration data collected about the device. * (OBJ092036) DASD Activity Performance The DASD Activity Performance object shows the number of requests (active or queued) on the device, pending and connect time to service those requests. * (OBJ092037) Link Diagnostic Configurations The Link Diagnostic Information Configurations object shows data about physical status, such as Voltage High Alarm, Transceiver High Temperature Warning for each FICON channel, switch entry port, switch exit port, and control unit port that is accessible to z/OS. 1. This enhancement is delivered deactivated. For activation instructions, see Configuring FICON and DASD activity Performance Objects in the Configuration section of the CA Vantage documentation. 2. If you currently use CA Vantage objects that are based on collecting SMF records, execute also the instructions from the HOLD data type ACTION.).</pre>

CA Vantage Storage Resource Manager 14.0
CA RS 2008 - PTF SO13844 Details

9

Service	Details				
SO13844	<p>SO13844 M.C.S. ENTRIES = ++PTF (SO13844)</p> <p>THIN PROVISIONING - SPACEREL SUPPORT FOR IBM DS888* DISKS</p> <p>ENHANCEMENT DESCRIPTION:</p> <p>This sysmod delivers the following enhancements:</p> <p>Adds a new object (OBJ02187) Thin Provisioning Volumes under RAID devices in CA Vantage object tree.</p> <p>This new object shows data about Thin Allocation from RAID boxes and data about allocation from the VTOC.</p> <p>Currently "(OBJ02187) Thin Provisioning Volumes" supports only Thin Provisioning for IBM DS888* boxes.</p> <p>Object supports the following actions:</p> <ul style="list-style-type: none"> * Release Space Vol - releases the IDLE space on specific volume * Release Space Stg - releases the IDLE space on specific Storage Group <p>Adds action "Release Space Vol" (releases the idle space on specific volume) into object "(OBJ02422) DS88XX Volumes" located under RAID Devices IBM Arrays - DS8870 and DS8880 in CA Vantage object tree.</p> <p>SYMPTOMS:</p> <p>None.</p> <p>IMPACT:</p> <p>None.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <table> <tr> <td>CA Vantage SRM</td> <td>Release 14.0</td> </tr> <tr> <td>CA Vantage GMI</td> <td>Release 14.0</td> </tr> </table> <p>Related Problem:</p> <p>VANT 9976</p> <p>Copyright (C) 2020 CA. All rights reserved. R00381-CTU140-SP1</p> <p>DESC(THIN PROVISIONING - SPACEREL SUPPORT FOR IBM DS888* DISKS).</p> <p>++VER (Z038)</p> <p>FMID (CCTUE00)</p> <p>PRE (R084906 R097383 S003923 S005955 S006202 S006439 S011730 S012692 S012928)</p> <p>SUP (ST12727 ST12948 ST13636 ST13844)</p> <p>++HOLD (SO13844) SYSTEM FMID(CCTUE00)</p> <p>REASON (ENH) DATE (20195)</p> <p>COMMENT (</p> <p>-----+ CA Vantage SRM and CA Vantage GMI Version 14.0 -----+-----+ SEQUENCE After Apply -----+-----+ SEQUENCE Before using the following objects: (OBJ02187) Thin Provisioning Volumes (OBJ02422) DS88XX Volumes -----+-----+ PURPOSE Describe enhancements of CA Vantage objects. -----+-----+ USERS All users who want to use SPACEREL action for Thin AFFECTED Provisioning for IBM DS888* boxes, users of (OBJ02187) Thin Provisioning Volumes and (OBJ02422) DS88XX Volumes CA Vantage objects. </p>	CA Vantage SRM	Release 14.0	CA Vantage GMI	Release 14.0
CA Vantage SRM	Release 14.0				
CA Vantage GMI	Release 14.0				

Service	Details
	+-----+-----+ KNOWLEDGE CA Vantage customization. REQUIRED +-----+-----+
	ACCESS CA Vantage libraries. REQUIRED +-----+-----+
	***** * STEPS TO PERFORM * *****
	<p>This sysmod delivers the following enhancements:</p> <p>Adds a new object (OBJ02187) Thin Provisioning Volumes under RAID devices in CA Vantage object tree.</p> <p>This new object shows data about Thin Allocation from RAID boxes and data about allocation from the VTOC.</p> <p>Currently "(OBJ02187) Thin Provisioning Volumes" supports only Thin Provisioning for IBM DS888* boxes.</p> <p>Object supports the following actions:</p> <ul style="list-style-type: none"> * Release Space Vol - releases the IDLE space on specific volume * Release Space Stg - releases the IDLE space on specific Storage Group <p>Adds action "Release Space Vol" (releases the idle space on specific volume) into object "(OBJ02422) DS88XX Volumes" located under RAID Devices IBM Arrays - DS8870 and DS8880 in CA Vantage object tree.</p>).

Service	Details
SO13928	<p>SO13928 M.C.S. ENTRIES = ++PTF (SO13928)</p> <p>CA VANTAGE REST API INTEGRATION WITH ZOWE API ML ENHANCEMENT DESCRIPTION: This SYSMOD allows you to integrate your CA Vantage REST API (service) with ZOWE Application Programming Interface Mediation Layer (API ML). The API Mediation Layer provides a single point of access to mainframe REST APIs and offers enterprise cloud-like features such as high-availability, scalability, dynamic API discovery, and documentation.</p> <p>SYMPTOMS: None.</p> <p>IMPACT: None.</p> <p>CIRCUMVENTION: None.</p> <p>PRODUCT(S) AFFECTED: CA Vantage SRM Release 14.0 CA Vantage GMI Release 14.0</p> <p>Related Problem: VANT 9996</p> <p>Copyright (C) 2020 CA. All rights reserved. R00384-CTU140-SP1</p> <p>DESC(CA VANTAGE REST API INTEGRATION WITH ZOWE API ML). ++VER (Z038) FMID (CCTUE00) PRE (S004038 S008472) SUP (ST10339 ST13928) ++HOLD (SO13928) SYSTEM FMID(CCTUE00) REASON (ACTION) DATE (20198) COMMENT (</p> <p>+-----+ CA Vantage SRM and CA Vantage GMI Version 14.0 +-----+ SEQUENCE After Apply Before using CA Vantage REST API server with or without ZOWE API ML. +-----+ PURPOSE Apply new method of configuring CA Vantage REST API server. +-----+ USERS All users who configured previous version of CA Vantage AFFECTED REST API server - SYSMOD S008472. +-----+ KNOWLEDGE CA Vantage REST API configuration and customization. REQUIRED +-----+ ACCESS CA Vantage libraries and your proclib library. REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** After applying this SYSMOD the current started task procedure for CA Vantage REST API server becomes obsolete and you won't be able</p>

Service	Details
	<p>to start the CA Vantage REST API server unless you execute the new configuration method.</p> <p>This method is similar to the old method with difference that configuration is no more stored in application-production.yaml file, but is stored in configuration members of REST API started task PARMLIB. If you are using a previous version of CA Vantage REST API - SYSMOD S008472, then after apply of this SYSMOD:</p> <ol style="list-style-type: none"> 1. Locate J017REST job in youHLQ.CCTUSAMP, execute the job according to the self-contained instructions. 2. Customize the configuration member VNPAPIC in the CA Vantage REST API server PARMLIB library allocated by the J017REST job. 3. Copy new VNJRESTA starting procedure into your PROCLIB library, customize the starting procedure according self-contained self-contained instructions. <p>For more information on how to newly configure CA Vantage REST API server and/or optionally integrate CA Vantage REST API server as an service for ZOWE API ML see the "Configure the REST API Server" of the CA Vantage r14.0 documentation.</p> <p>).</p> <p>++HOLD (SO13928) SYSTEM FMID(CCTUE00)</p> <p>REASON (ENH) DATE (20198)</p> <p>COMMENT (</p> <p>-----+ CA Vantage SRM and CA Vantage GMI Version 14.0 -----+-----+ SEQUENCE After Apply -----+-----+ PURPOSE Integrate CA Vantage REST API server with ZOWE API ML. -----+-----+ USERS Users who wants to use CA Vantage REST API Server AFFECTED service within ZOWE API ML. AFFECTED Users who wants to use CA Vantage REST API Server without AFFECTED ZOWE API ML. -----+-----+ KNOWLEDGE -z/OS environment, including software installation REQUIRED -z/OS UNIX System Services -z/OS UNIX System Services Java environment configuration -SMP/E installation process -CA Common Services installation and configuration -ESM Microservice installation, deployment and configuration -CA Vantage installation and configuration -Certificate installation, transfer and configuration of the SAF key rings -Storing certificate in key ring and key ring management - ZOWE API ML installation and configuration -----+-----+ ACCESS Access to various system resources: REQUIRED - CA Common Services runtime and configuration libraries - System Authorization Facility - Unix System Services - CA Vantage runtime libraries and configuration datasets - ZOWE libraries -----+-----+ </p>

Service	Details
	<pre>***** * STEPS TO PERFORM * ***** This SYSMOD allows you to integrate your CA Vantage REST API (service) with ZOWE Application Programming Interface Mediation Layer (API ML). The API Mediation Layer provides a single point of access to mainframe REST APIs and offers enterprise cloud-like features such as high-availability, scalability, dynamic API discovery, and documentation. As a system administrator, you use the CA Vantage Representational State Transfer(REST) Application Programming Interface(API) to get data from CA Vantage objects without accessing standard CA Vantage UI(Windows Client, Web Client, W3270). With the CA Vantage REST API you can also issue CA Vantage operator commands. You can read, create or delete CA Vantage scripts in the script libraries. The REST API also lets you to view and modify CA Vantage system parameters(VKGPARMS). Leveraging the CA Vantage REST API lets create your own workflows and integrate them into your own applications and interfaces. This feature is delivered as deactivated. For instructions how to configure CA Vantage to be integrated as a service in ZOWE API ML see the section "Configure the REST Server" of the CA Vantage r14.0 documentation. For installation instructions see section "Install the REST API Server". IMPORTANT: If you have configured the previous version of CA Vantage REST API server - SYSMOD S008472, then after applying this SYSMOD execute the instructions from HOLDDATA, ACTION.). LINK('..../lib/VantageServer-RELEASE.jar') PARM(PATHMODE(0,7,5,5)) . MCS S013209 STARTS ON PAGE 0002 MCS S013622 STARTS ON PAGE 0006 MCS S013844 STARTS ON PAGE 0011 MCS S013928 STARTS ON PAGE 0015</pre>

CA Vantage Storage Resource Manager 14.0
CA RS 2008 Product/Component Listing

14

Product Family	Product	Release
Storage	CA VANTAGE SRM AND CA VANTAGE GMI	14.00.00

The CA RS 2008 Product/Component Count for this release is 1

CA RS Level	Service	FMID
CAR2008	SO13928	CCTUE00
	SO13844	CCTUE00
	SO13622	CCTUE00
	SO13209	CCTUE00
CAR2007	SO13736	CCTUE00
	SO13380	CCTUE00
	SO13294	CCTUE00
	SO13269	CCTUE00
CAR2006	SO12731	CCTUE00
	SO12592	CCTUE00
CAR2005	SO12928	CCTUE00
	SO12695	CCTUE00
CAR2004	SO12692	CCTUE00
	SO12611	CCTUE00
CAR2003	SO12492	CCTUE00
	SO11427	CCTUE00
CAR2002	SO12440	CCTUE00
	SO12092	CCTUE00
CAR2001	SO10873	CCTUE00
	SO11198	CCTUE00
CAR1912	SO11730	CCTUE00
	SO11670	CCTUE00
CAR1911	SO11503	CCTUE00
	SO11327	CCTUE00
CAR1909	SO10798	CCTUE00
	SO10747	CCTUE00
CAR1908	SO09957	CCTUE00
	SO09691	CCTUE00
CAR1907	SO10499	CCTUE00
	SO09744	CCTUE00
CAR1906	SO08705	CCTUE00
	SO09778	CCTUE00
	SO09435	CCTUE00
	SO09332	CCTUE00
CAR1905	SO09243	CCTUE00
	SO09153	CCTUE00
	SO08209	CCTUE00
	SO09295	CCTUE00
CAR1904	SO09283	CCTUE00
	SO08949	CCTUE00
CAR1903	SO08708	CCTUE00
	SO08404	CCTUE00
CAR1902	SO08472	CCTUE00
	SO08389	CCTUE00
CAR1901	SO08213	CCTUE00
	SO07908	CCTUE00

CA RS Level	Service	FMID
	S007903	CCTUE00
	S007752	CCTUE00
	S007633	CCTUE00
	S005631	CCTUE00
CAR1902	S006858	CCTUE00
	S006203	CCTUE00
CAR1901	S006758	CCTUE00
	S006433	CCTUE00
	S006079	CCTUE00
	S005955	CCTUE00
CAR1812	S006439	CCTUE00
	S006202	CCTUE00
	S006155	CCTUE00
	S005989	CCTUE00
CAR1811	S005406	CCTUE00
	S005313	CCTUE00
	S005185	CCTUE00
CAR1810	S005499	CCTUE00
	S005217	CCTUE00
	S004438	CCTUE00
CAR1809	S005060	CCTUE00
	S005029	CCTUE00
	S004770	CCTUE00
	S004633	CCTUE00
	S004310	CCTUE00
	S003862	CCTUE00
CAR1808	S004602	CCTUE00
	S004439	CCTUE00
	S004236	CCTUE00
	S004049	CCTUE00
	S003859	CCTUE00
CAR1807	S004124	CCTUE00
	S004038	CCTUE00
	S003923	CCTUE00
	S003710	CCTUE00
	S001683	CCTUE00
CAR1806	S003623	CCTUE00
	S001800	CCTUE00
	S001765	CCTUE00
	S001508	CCTUE00
	S001383	CCTUE00
	RO99883	CCTUE00
	RO99174	CCTUE00
CAR1805	S001503	CCTUE00
	S001478	CCTUE00
	S000950	CCTUE00
	S000868	CCTUE00

CA RS Level	Service	FMID
	S000655	CCTUE00
CAR1804	S000577	CCTUE00
	S000573	CCTUE00
	S000464	CCTUE00
	S000071	CCTUE00
	RO99222	CCTUE00
	RO99128	CCTUE00
	RO97061	CCTUE00
CAR1802	RO99708	CCTUE00
	RO99407	CCTUE00
CAR1712	RO98578	CCTUE00
CAR1711	RO98387	CCTUE00
	RO98309	CCTUE00
	RO98197	CCTUE00
	RO98113	CCTUE00
	RO98037	CCTUE00
	RO97610	CCTUE00
CAR1710	RO98189	CCTUE00
	RO97682	CCTUE00
	RO97637	CCTUE00
CAR1709	RO97572	CCTUE00
	RO97384	CCTUE00
	RO97383	CCTUE00
	RO97229	CCTUE00
	RO97212	CCTUE00
	RO96735	CCTUE00
	RO95510	CCTUE00
	RO94392	CCTUE00
CAR1708	RO97063	CCTUE00
	RO96929	CCTUE00
	RO95823	CCTUE00
	RO95258	CCTUE00
	RO93614	CCTUE00
CAR1706	RO96064	CCTUE00
	RO95843	CCTUE00
	RO95842	CCTUE00
	RO95373	CCTUE00
CAR1705	RO95664	CCTUE00
	RO95390	CCTUE00
	RO95228	CCTUE00
	RO94643	CCTUE00
	RO93383	CCTUE00
CAR1703	RO93652	CCTUE00
CAR1702	RO93418	CCTUE00
	RO93417	CCTUE00
	RO93349	CCTUE00

CA RS Level	Service	FMID
	R093344	CCTUE00
	R093221	CCTUE00