

Datacom/DB 15.1
CA RS 2109 Service List

Service	Description	Type
LU01216	HASH JOIN AND SUBQUERY FIX 1	PTF
LU02040	ENHANCMENT: NEW MESSAGE DB13291E FOR RC 94(048) WITH DBUTLTY	PTF
LU02248	INCORRECT RESULTS FOR AN SQL QUERY WITH A LIKE PREDICATE	**HIPER**
LU02318	DATAKOM-ID ASSIGNMENT CORRECTION.	PTF
LU02418	ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENT	PTF
LU02435	ENHANCEMENT: VALIDATION SITE TESTING REDUCE STORAGE USED	PTF
LU02542	POSSIBLE LOAD/RETIX PERFORMANCE DEGRADATION AFTER LU00290	PTF
The CA RS 2109 service count for this release is 7		

Datacom/DB
CA RS 2109 Service List for CAADF10

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FMID	Service	Description	Type
CAADF10	LU02318	DATACOM-ID ASSIGNMENT CORRECTION.	PTF
The CA RS 2109 service count for this FMID is 1			

Datacom/DB
CA RS 2109 Service List for CABDF10

FMID	Service	Description	Type
CABDF10	LU02040	ENHANCMENT: NEW MESSAGE DB13291E FOR RC 94(048) WITH DBUTLTY	PTF
	LU02248	INCORRECT RESULTS FOR AN SQL QUERY WITH A LIKE PREDICATE	**HIPER**
	LU02418	ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENT	PTF
	LU02435	ENHANCEMENT: VALIDATION SITE TESTING REDUCE STORAGE USED	PTF
	LU02542	POSSIBLE LOAD/RETIX PERFORMANCE DEGRADATION AFTER LU00290	PTF
The CA RS 2109 service count for this FMID is 5			

Datacom/DB
CA RS 2109 Service List for CAVEF10

FMID	Service	Description	Type
CAVEF10	LU01216	HASH JOIN AND SUBQUERY FIX 1	PTF
The CA RS 2109 service count for this FMID is 1			

Service	Details
LU01216	LU01216 M.C.S. ENTRIES = ++PTF (LU01216) The following items are included in this solution: 1. HASH JOIN AND SUBQUERY FIX 1 2. SCALAR TABLE EXPRESSION IN UNION WRONG OR MUF ABEND 3. PREDICATES WITH LOCAL PARAMATERS IN PROCEDRUES ARE IGNORED ===== HASH JOIN AND SUBQUERY FIX 1 PROBLEM DESCRIPTION: The following problems are fixed in this APAR: 1. SQLCODE -586 indicating hash table space exhausted is resolved by reserving a maximum of 20GB of 64-bit memory. Memory is allocated as needed in 1MB increments. The hash table itself is based on the number of rows, but non-base tables use 100,000, and the minimum is 1024. 2. An ABEND due to changed backed out by the table compression PTF is fixed 3. In a special case, hash join was selected when nested-loop join was better. This is when skip-sequential processing makes a key as effective as a high-order key. The change detects the case where the first field of a key is not restricted, and the folowing field(s) are restricted with an EQ predicate. When the first field cardinality is < 11, and the following field(s) cardinality is > 99, hash join is no longer selected as the join method by the Optimizer. 4. Bind time optimization message are now truncated at 32,767 lines. 5. Confusing RQA MESSAGES in the optimization report are removed. 6. The Metrics DST used by the SQL Monitor now shows a process method for a hash join and the step that builds the hash table. SYMPTOMS: Various symptoms mentioned above. IMPACT: Hash joins not working correctly. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 13604 ===== SCALAR TABLE EXPRESSION IN UNION WRONG OR MUF ABEND PROBLEM DESCRIPTION: A Scalar Table Expression (STE) used in a query with a UNION results in either a wrong result, or if the STE is correlated and UNION ALL is used, a Multi-User Facility (MUF) abend. SYMPTOMS: Either the wrong value is returned, or MUF abends. IMPACT: Either the query returns the wrong result for the STE, or MUF must be restarted. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 13864 =====

Service	Details
	PREDICATES WITH LOCAL PARAMATERS IN PROCEDRUES ARE IGNORED PROBLEM DESCRIPTION: When a PROCEDURE uses a predicate that contains LOCAL VARIABLE the LOCAL VARIABLE ends up being ignored. SYMPTOMS: Symptoms will vary depending on how the PROCEDURE is written, but the PROCEDURE may not work as expected. IMPACT: The PROCEDURE may not work as expected. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 13942 Copyright (C) 2021 CA. All rights reserved. R00883-DCM151-SP2 DESC(HASH JOIN AND SUBQUERY FIX 1). ++VER (Z038) FMID (CAVEF10) PRE (LU00981 LU00985 LU00988 LU01149 LU01484 R090155 R090216 R090826 R090854 R092064 R093613 R097225 S000890 S001886 S004197 S004243 S005190 S005343 S005935 S006238 S006396 S006402 S006440 S006473 S007544 S008017 S008336 S008452 S008801 S009437 S010328 S010335 S011326 S011629 S013173 S013286 S013526 S013992 S014105 S014147 S014725 S015165 S015755 S015827 S015889) SUP (AR90216 AR90826 AS05190 AS14825 BC92212 BR90826 CR90826 CS11629 DC92212 DS11629 ES11629 HC92212 IC92212 LT00055 LT00056 LT00059 LT00105 LT00354 LT00425 LT01153 LT01216 LU00056 LU00105 LU00354 LU00425 LU01153 R088550 R088617 R089520 R089521 R090156 R092282 R095609 R095978 R096797 R098521 R099168 R099972 S001350 S004034 S004152 S004889 S004969 S005352 S005417 S006387 S006750 S007468 S012861 S013055 S014297 S014369 S014813 S014825 S015224 S015527 ST01350 ST04034 ST04152 ST04889 ST04969 ST05352 ST05417 ST05998 ST06383 ST06387 ST06750 ST07468 ST08489 ST10139 ST10151 ST10304 ST12861 ST13055 ST14297 ST14369 ST14813 ST14825 ST15224 ST15527 TR88208 TR88392 TR88550 TR88617 TR89520 TR89521 TR90086 TR90156 TR90605 TR92282 TR95609 TR95978 TR96797 TR98438 TR98521 TR99168 TR99972)

Datacom/DB 15.1
CA RS 2109 - PTF LU02040 Details

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Service	Details
LU02040	LU02040 M.C.S. ENTRIES = ++PTF (LU02040) ENHANCMENT: NEW MESSAGE DB13291E FOR RC 94(048) WITH DBUTLTY ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code to issue new message DB13291E when DBUTLTY MASSADD or LOAD encounters return code 94(048) (invalid data provided for data type). The message externalizes the offset and length of the invalid field within the row, for example: DB13291E - RETURN CODE 94 (048) INVALID DATA PROVIDED FOR DATA TYPE - OFFSET 4 LENGTH 8 The new message is described in the DATACOM/DB messages documentation. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 14193 Copyright (C) 2021 CA. All rights reserved. R00917-DCM151-SP2 DESC(ENHANCMENT: NEW MESSAGE DB13291E FOR RC 94(048) WITH DBUTLTY). ++VER (Z038) FMID (CABDF10) PRE (LU01370 R088863 R094095 R096852 S009367 S013594) SUP (LT02040 R096420 S001390 S006547 ST01390 ST06547 TR96420)

Service	Details												
LU02248	LU02248 M.C.S. ENTRIES = ++PTF (LU02248) The following items are included in this solution: 1. INCORRECT RESULTS FOR AN SQL QUERY WITH A LIKE PREDICATE 2. ABEND SOC4 IN MODULE DBRPFPR WITH USING SQL LIKE PREDICATE ===== INCORRECT RESULTS FOR AN SQL QUERY WITH A LIKE PREDICATE PROBLEM DESCRIPTION: After applying PTF LU01483, a query, which includes an SQL LIKE clause may not find qualifying rows. This can happen in either of the following two cases: A. The query includes a WHERE clause, which has other selection criteria in addition to the LIKE predicate and the LIKE predicate is not specified as the last of those selection criteria, for example: WHERE column1 LIKE '% 4321' AND column2 = '02' B. The LIKE predicate includes both percent signs and underscores as wild cards, for example: WHERE column1 LIKE '%_23%' SYMPTOMS: A query which includes an SQL LIKE clause may not find qualifying rows when it should. IMPACT: An SQL query does not return rows when it should. CIRCUMVENTION: A. For the case which includes multiple selection criteria, reorder the WHERE clause specifying the LIKE predicate as the last predicate, for example: WHERE column2 = '02' AND column1 LIKE '% 4321' B. For the case where multiple types of wild cards are in a single LIKE predicate, there is no circumvention. PRODUCT(S) AFFECTED: <table> <tr> <td>CA Datacom/DB</td><td>Release 15.1</td></tr> <tr> <td>CA Datacom SQL</td><td>Release 15.1</td></tr> </table> Related Problem: <table> <tr> <td>DB</td><td>14358</td></tr> </table> ===== ABEND SOC4 IN MODULE DBRPFPR WITH USING SQL LIKE PREDICATE PROBLEM DESCRIPTION: After applying PTF LU01483, the Datacom/DB Multi-User Facility (MUF) can abend with code SOC4 in module DBRPFPR. This abend can occur when running an SQL query which includes an SQL LIKE clause against a VARCHAR column when the length of the column is smaller than the LIKE value. This is not a common. SYMPTOMS: MUF abends with a SOC4 in module DBRPFPR at or near offset X'7402'. IMPACT: There is a MUF outage. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: <table> <tr> <td>CA Datacom/DB</td><td>Release 15.1</td></tr> <tr> <td>CA Datacom SQL</td><td>Release 15.1</td></tr> </table> Related Problem: <table> <tr> <td>DB</td><td>14519</td></tr> </table>	CA Datacom/DB	Release 15.1	CA Datacom SQL	Release 15.1	DB	14358	CA Datacom/DB	Release 15.1	CA Datacom SQL	Release 15.1	DB	14519
CA Datacom/DB	Release 15.1												
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DB	14358												
CA Datacom/DB	Release 15.1												
CA Datacom SQL	Release 15.1												
DB	14519												

Datacom/DB 15.1
CA RS 2109 - PTF LU02248 Details

Service	Details
	Copyright (C) 2021 CA. All rights reserved. R00926-DCM151-SP2 DESC(INCORRECT RESULTS FOR AN SQL QUERY WITH A LIKE PREDICATE) . ++VER (Z038) FMID (CABDF10) PRE (R092259 R095667 S010395 S011479) SUP (LT01636 LT02248 LU01636 R090197 R098142 R098800 S000922 S004938 S007141 S013581 S015521 S016096 ST00922 ST04938 ST07141 ST13581 ST15521 ST16096 TR90197 TR98142 TR98800)

Service	Details
LU02318	LU02318 M.C.S. ENTRIES = ++PTF (LU02318) DATAACOM-ID ASSIGNMENT CORRECTION. PROBLEM DESCRIPTION: There is a possibility of a failure assigning a Datacom-ID. This solution prevents that problem. SYMPTOMS: Entity may get assigned an Datacom-ID that is already in use and then be rejected by MUF. IMPACT: User will have to Catalog again to get new Datacom-ID assigned. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom Datadictionary Release 15.1 Related Problem: DD 14446 Copyright (C) 2021 CA. All rights reserved. R00927-DCM151-SP2 DESC(DATAACOM-ID ASSIGNMENT CORRECTION.). ++VER (Z038) FMID (CAADF10) PRE (LU00472 R095097 R098231) SUP (AL00472 LT01259 LT02318 LU01259 R090950 S014851 ST14851 TR90950)

Datacom/DB 15.1
CA RS 2109 - PTF LU02418 Details

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Service	Details
LU02418	LU02418 M.C.S. ENTRIES = ++PTF (LU02418) ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENT ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code which will form the basis for future code changes. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 14492 Copyright (C) 2021 CA. All rights reserved. R00932-DCM151-SP2 DESC (ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENT). ++VER (Z038) FMID (CABDF10) PRE (LU00174 R088530 R090075 R090276 R090486 R091015 R091404 R091632 R092259 R092858 R093251 R094001 R095548 R095667 R097082 R097626 R097818 R099532 R099902 S000436 S001597 S003799 S004931 S006365 S006692 S007900 S008120 S009683 S014507 S015871) SUP (LT01545 LT02418 LU01545 R095305 S000035 S000657 S005278 S010571 S015186 ST00035 ST00657 ST05278 ST10571 ST15186 TR95305)

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CA RS 2109 - PTF LU02435 Details

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Service	Details
LU02435	LU02435 M.C.S. ENTRIES = ++PTF (LU02435) ENHANCEMENT: VALIDATION SITE TESTING REDUCE STORAGE USED ENHANCEMENT DESCRIPTION: This product enhancement delivers code which provides early validation support for reducing the amount of 31 bit storage used for "DBMEMPR ADMIN" for managing dynamic buffer pools. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 14511 Copyright (C) 2021 CA. All rights reserved. R00933-DCM151-SP2 DESC(ENHANCEMENT: VALIDATION SITE TESTING REDUCE STORAGE USED). ++VER (Z038) FMID (CABDF10) PRE (LU01689 LU02418) SUP (LT02435)

Service	Details																						
LU02542	LU02542 M.C.S. ENTRIES = ++PTF (LU02542) POSSIBLE LOAD/RETIX PERFORMANCE DEGRADATION AFTER LU00290 PROBLEM DESCRIPTION: After applying PTF LU00290, DBUTLTY functions such as LOAD and RETIX may experience performance degradation based on significantly increased index I/O counts. While CPU consumption is about the same, the wall clock elapsed time for such DBUTLTY jobs may be substantially higher, especially when large data volumes are processed. SYMPTOMS: DBUTLTY jobs show increased I/O counts and longer wall clock elapsed times. IMPACT: DBUTLTY functions take longer to finish and may exceed predefined batch processing windows. Overall throughput is diminished. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 14617 Copyright (C) 2021 CA. All rights reserved. R00936-DCM151-SP2 DESC(POSSIBLE LOAD/RETIX PERFORMANCE DEGRADATION AFTER LU00290). ++VER (Z038) FMID (CABDF10) PRE (LU00290 LU01266 LU01940 R088863 R091404 R094001 R097818 R099532 R099675 S000074 S004298 S006748 S007233 S013716 S014507 S015871) SUP (AL00290 EC90081 LT02542 R095277 R097723 TR95277 TR97723) <table> <tr> <td>MCS</td><td>LU01216</td><td>STARTS ON PAGE 0002</td></tr> <tr> <td>MCS</td><td>LU02040</td><td>STARTS ON PAGE 0004</td></tr> <tr> <td>MCS</td><td>LU02248</td><td>STARTS ON PAGE 0005</td></tr> <tr> <td>MCS</td><td>LU02318</td><td>STARTS ON PAGE 0007</td></tr> <tr> <td>MCS</td><td>LU02418</td><td>STARTS ON PAGE 0008</td></tr> <tr> <td>MCS</td><td>LU02435</td><td>STARTS ON PAGE 0008</td></tr> <tr> <td>MCS</td><td>LU02542</td><td>STARTS ON PAGE 0009</td></tr> </table>		MCS	LU01216	STARTS ON PAGE 0002	MCS	LU02040	STARTS ON PAGE 0004	MCS	LU02248	STARTS ON PAGE 0005	MCS	LU02318	STARTS ON PAGE 0007	MCS	LU02418	STARTS ON PAGE 0008	MCS	LU02435	STARTS ON PAGE 0008	MCS	LU02542	STARTS ON PAGE 0009
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MCS	LU02435	STARTS ON PAGE 0008																					
MCS	LU02542	STARTS ON PAGE 0009																					

Datacom/DB 15.1
CA RS 2109 Product/Component Listing

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Product Family	Product	Release
Database	CA DATACOM DATADictionary	15.01.00
	CA DATACOM FAST RESTORE	15.01.00
	CA DATACOM METACOBOL SUPPORT	15.01.00
	CA DATACOM PRESSPACK	15.01.00
	CA DATACOM SQL	15.01.00
	CA DATACOM/DB	15.01.00
	CA DATAQUERY FOR CA DATACOM	15.01.00
The CA RS 2109 Product/Component Count for this release is 7		

CA RS Level	Service	FMID
CAR2109	LU02542	CABDF10
	LU02435	CABDF10
	LU02418	CABDF10
	LU02318	CAADF10
	LU02248	CABDF10
	LU02040	CABDF10
	LU01216	CAVEF10
CAR2108	LU02221	CABDF10
	LU02170	CABDF10
	LU02134	CABDF10
	LU02107	CABDF10
	LU02078	CAADF10
	LU02022	CABDF10
	LU01970	CABDF10
	LU01940	CABDF10
	LU01916	CABDF10
	LU01915	CABDF10
	LU01863	CABDF10
	LU01677	CABDF10
	LU01651	CABDF10
	LU01365	CABDF10
	LU01331	CAVEF10
	LU01153	CAVEF10
CAR2107	LU01925	CABDF10
	LU01834	CAADF10
	LU01689	CABDF10
	LU01636	CABDF10
	LU01591	CABDF10
	LU01545	CABDF10
	LU01483	CAVEF10
	LU01452	CABDF10
	LU01400	CABDF10
	LU01266	CABDF10
	LU01081	CABDF10
	LU01079	CABDF10
CAR2106	SO15813	CAVEF10
	SO14577	CAZNF10
	LU01484	CAVEF10
	LU01428	CAADF10
	LU01374	CABDF10
	LU01370	CABDF10
	LU01312	CABDF10
	LU01302	CABDF10
	LU01280	CABDF10
	LU01259	CAADF10
	LU01249	CAVEF10
	LU01224	CABDF10

CA RS Level	Service	FMID
	LU01150	CABDF10
	LU01149	CAVEF10
	LU01046	CAVEF10
	LU00988	CAVEF10
	LU00961	CABDF10
CAR2105	SO15660	CABDF10
	LU01022	CAADF10
	LU00985	CAVEF10
	LU00984	CABDF10
	LU00981	CAVEF10
	LU00692	CABDF10
	LU00602	CAVEF10
	LU00472	CAADF10
	LU00425	CAVEF10
	LU00354	CAVEF10
	LU00105	CAVEF10
	LU00065	CAVEF10
CAR2104	LU00589	CABDF10
	LU00290	CABDF10
CAR2103	SO16049	CABDF10
	LU00374	CABDF10
	LU00309	CABDF10
	LU00265	CABDF10
	LU00189	CABDF10
	LU00174	CABDF10
	LU00172	CABDF10
	LU00161	CABDF10
	LU00128	CABDF10
	LU00112	CABDF10
	LU00087	CAVEF10
	LU00056	CAVEF10
	LU00047	CABDF10
CAR2102	SO16096	CABDF10
	SO16086	CABDF10
	SO16084	CAADF10
	SO16078	CAVEF10
	SO16052	CABDF10
	SO16004	CABDF10
	SO15871	CABDF10
	LU00071	CABDF10
	LU00061	CABDF10
	LU00053	CABDF10
CAR2101	SO16036	CABDF10
	SO16006	CABDF10
	SO15947	CABDF10
	SO15912	CABDF10
	SO15889	CAVEF10

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All CA RS Levels Service List

CA RS Level	Service	FMID
	S015866	CAVEF10
	S015862	CABDF10
	S015827	CAVEF10
	S015755	CAVEF10
	S015728	CAVEF10
	S015724	CAADF10
	S015552	CABDF10
	S015243	CABDF10
	S015187	CABDF10
	S015152	CABDF10
CAR2012	S015651	CAADF10
	S015527	CAVEF10
	S015521	CABDF10
	S015490	CAADF10
	S015425	CAVEF10
	S015342	CAVEF10
	S015292	CABDF10
	S014980	CABDF10
CAR2011	S015286	CAADF10
	S015224	CAVEF10
	S015186	CABDF10
	S015165	CAVEF10
	S014998	CABDF10
	S014851	CAADF10
	S014825	CAVEF10
	S014818	CABDF10
	S014813	CAVEF10
	S014667	CAVEF10
	S014578	CAVEF10
	S014423	CAVEF10
	S014067	CABDF10
CAR2010	S015008	CABDF10
	S014951	CABDF10
	S014911	CABDF10
	S014804	CAVEF10
	S014800	CAADF10
	S014765	CABDF10
	S014725	CAVEF10
	S014724	CABDF10
	S014651	CABDF10
	S014542	CABDF10
	S014507	CABDF10
	S014334	CABDF10
	S014297	CAVEF10
	S014271	CAVEF10
	S014100	CABDF10
	S014095	CABDF10

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All CA RS Levels Service List

CA RS Level	Service	FMID
CAR2009	S014600	CAADF10
	S014495	CABDF10
	S014493	CAADF10
	S014369	CAVEF10
	S014359	CABDF10
	S014345	CABDF11
	S014296	CABDF10
	S014256	CABDF10
	S014169	CABDF10
	S014147	CAVEF10
	S014105	CAVEF10
	S014079	CABDF10
	S013992	CAVEF10
	S013892	CAVEF10
	S011882	CABDF10
CAR2008	S014115	CABDF10
	S014070	CABDF10
	S014068	CAVEF10
	S013991	CABDF10
	S013902	CAVEF10
	S013882	CABDF10
	S013810	CAADF10
	S013742	CAVEF10
	S013740	CABDF10
	S013739	CAVEF10
	S013716	CABDF10
	S013630	CAVEF10
	S013594	CABDF10
	S013581	CABDF10
	S013544	CAVEF10
	S013526	CAVEF10
	S013441	CAADF10
	S013286	CAVEF10
	S013249	CABDF10
	S013055	CAVEF10
CAR2007	S013667	CABDF10
	S013593	CABDF10
	S013463	CABDF10
	S013425	CABDF10
	S013398	CABDF10
	S013370	CABDF10
	S013173	CAVEF10
	S013156	CABDF10
	S013145	CAVEF10
	S013102	CAVEF10
	S013090	CABDF10
CAR2006	S013189	CABDF10

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All CA RS Levels Service List

CA RS Level	Service	FMID
	S013162	CABDF10
	S013093	CAVEF10
	S013040	CABDF10
	S012962	CAVEF10
	S012932	CABDF10
	S012861	CAVEF10
	S012743	CAVEF10
	S011965	CABDF10
	S011513	CABDF10
CAR2005	S012828	CABDF10
	S012809	CABDF10
	S012776	CABDF10
	S012771	CABDF10
	S012636	CABDF10
	S012632	CABDF10
	S012601	CAVEF10
	S012557	CAVEF10
	S012504	CAVEF10
	S012497	CAVEF10
	S012203	CABDF10
	S012178	CABDF10
	S011951	CABDF10
	S006944	CABDF11
CAR2004	S012202	CAADF10
	S012165	CABDF10
	S012048	CABDF10
	S011975	CABDF10
	S011629	CAVEF10
	S011348	CAVEF10
CAR2003	S011932	CABDF10
	S011906	CABDF10
	S011692	CAADF10
	S011678	CABDF10
	S010586	CAVEF10
CAR2002	S011673	CABDF10
	S011571	CABDF10
	S011562	CABDF10
	S011501	CABDF10
	S011479	CABDF10
	S011436	CABDF10
	S011435	CABDF10
	S011403	CABDF10
	S011331	CABDF10
	S011326	CAVEF10
	S011247	CABDF10
	S011223	CAVEF10
	S011192	CAVEF10

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CA RS Level	Service	FMID
	S010960	CAVEF10
	S010870	CABDF10
	S010702	CAVEF10
CAR2001	S011278	CABDF10
	S011244	CABDF10
	S010748	CABDF10
	S010720	CABDF10
	S010697	CABDF10
CAR1912	S010776	CABDF10
	S010727	CABDF10
	S010624	CABDF10
	S010580	CABDF10
	S010571	CABDF10
	S010439	CABDF10
	S009551	CAVEF10
	S008336	CAVEF10
CAR1911	S010617	CABDF10
	S010523	CAADF10
	S010519	CABDF10
	S010467	CAVEF10
	S010466	CAADF10
	S010462	CAADF10
	S010416	CABDF10
	S010395	CABDF10
	S010380	CAVEF10
	S010373	CABDF10
	S010335	CAVEF10
	S010328	CAVEF10
	S010261	CABDF10
	S010095	CABDF10
	S010082	CABDF10
	S009994	CAVEF10
	S009683	CABDF10
	S009437	CAVEF10
	S009190	CAVEF10
CAR1910	S010109	CABDF10
	S009919	CAADF10
	S009835	CABDF10
	S009814	CAVEF10
	S009679	CABDF10
	S009494	CABDF10
	S009474	CABDF10
CAR1909	S009749	CAADF10
	S009682	CABDF10
	S009648	CABDF10
	S009610	CABDF10
	S009543	CABDF10

CA RS Level	Service	FMID
	S009510	CABDF10
	S009479	CABDF10
	S009464	CABDF10
	S009367	CABDF10
	S009270	CABDF10
	S008758	CAVEF10
CAR1908	S009219	CABDF10
	S009151	CABDF10
	S009143	CABDF10
	S008933	CAVEF10
	S008913	CAADF10
	S008889	CAVEF10
	S008801	CAVEF10
	S008749	CABDF10
	S008622	CABDF10
	S008452	CAVEF10
	S008294	CABDF10
CAR1907	S009034	CABDF10
	S008926	CABDF10
	S008775	CABDF10
	S008697	CABDF10
	S008685	CABDF10
	S008602	CABDF10
	S008590	CABDF10
	S008488	CABDF10
	S008444	CABDF10
	S008394	CABDF10
	S008374	CAVEF10
	S008017	CAVEF10
CAR1906	S008545	CAADF10
	S008500	CABDF10
	S008300	CABDF10
	S008181	CABDF10
	S008120	CABDF10
	S008032	CABDF10
	S007557	CAVEF10
	S007544	CAVEF10
CAR1905	S008152	CABDF10
	S007948	CABDF10
	S007923	CABDF10
	S007900	CABDF10
	S007846	CABDF10
	S007835	CABDF10
	S007524	CABDF10
	S007519	CABDF10
CAR1904	S007786	CABDF10
	S007735	CAADF10

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CA RS Level	Service	FMID
	S007733	CABDF10
	S007572	CAADF10
	S007564	CAADF10
	S007530	CABDF10
	S007496	CABDF10
	S007480	CABDF10
	S007468	CAVEF10
	S007461	CAVEF10
	S007425	CABDF10
	S007405	CABDF10
	S007233	CABDF10
	S007166	CABDF10
	S007008	CABDF10
	S006957	CABDF10
CAR1903	S007320	CABDF10
	S007262	CABDF10
	S007258	CABDF10
	S007234	CABDF10
	S007219	CABDF10
	S007202	CABDF10
	S007190	CABDF10
	S007141	CABDF10
	S007055	CABDF10
	S007039	CABDF10
	S007034	CABDF10
	S006999	CAVEF10
	S006945	CABDF10
	S006922	CAVEF10
	S006846	CAVEF10
	S006768	CABDF10
	S006750	CAVEF10
	S006748	CABDF10
	S004529	CAADF10
CAR1902	S007113	CABDF10
	S006840	CABDF10
	S006815	CABDF10
	S006692	CABDF10
	S006613	CABDF10
	S006547	CABDF10
	S006404	CABDF10
CAR1901	S006715	CABDF10
	S006676	CABDF10
	S006626	CAVEF10
	S006551	CABDF10
	S006519	CABDF10
	S006473	CAVEF10
	S006440	CAVEF10

CA RS Level	Service	FMID
	S006422	CABDF10
	S006412	CAVEF10
	S006402	CAVEF10
	S006401	CABDF10
	S006396	CAVEF10
	S006387	CAVEF10
	S006366	CABDF10
	S006365	CABDF10
	S006238	CAVEF10
	S006153	CADQF10
CAR1812	S006314	CABDF10
	S006231	CAVEF10
	S006217	CABDF10
	S006174	CAVEF10
	S006133	CABDF10
	S005985	CAADF10
	S005964	CABDF10
	S005962	CABDF10
	S005935	CAVEF10
	S005882	CABDF10
	S005562	CAVEF10
CAR1811	S005864	CABDF10
	S005778	CABDF10
	S005738	CABDF10
	S005708	CABDF10
	S005665	CABDF10
	S005617	CABDF10
	S005600	CAVEF10
	S005597	CABDF10
	S005583	CABDF10
	S005492	CABDF10
	S005423	CABDF10
	S005417	CAVEF10
	S005404	CABDF10
	S005360	CABDF10
	S005352	CAVEF10
	S005300	CAVEF10
	S005278	CABDF10
CAR1810	S005596	CABDF10
	S005383	CABDF10
	S005361	CABDF10
	S005343	CAVEF10
	S005301	CABDF10
	S005243	CAVEF10
	S005239	CABDF10
	S005221	CABDF10
	S005210	CAVEF10

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CA RS Level	Service	FMID
	S005206	CABDF10
	S005190	CAVEF10
	S005131	CABDF10
	S004938	CABDF10
	S004931	CABDF10
	S004867	CAVEF10
	S004565	CABDF10
CAR1809	S005129	CABDF10
	S004997	CABDF10
	S004978	CABDF10
	S004969	CAVEF10
	S004927	CAVEF10
	S004889	CAVEF10
	S004849	CAVEF10
	S004783	CABDF10
	S004745	CABDF10
	S004559	CABDF10
	S004538	CABDF10
	S004526	CABDF11
	S004485	CAADF10
	S004040	CABDF11
	S003799	CABDF10
	S003704	CABDF10
	S003692	CABDF10
CAR1808	S004357	CAVEF10
	S004298	CABDF10
	S004243	CAVEF10
	S004197	CAVEF10
	S004157	CAADF10
	S004152	CAVEF10
	S004151	CABDF10
	S004095	CABDF10
	S004057	CABDF10
	S003985	CABDF10
	S003866	CABDF10
	S003827	CABDF10
	S001837	CABDF10
CAR1807	S004096	CABDF10
	S004045	CAVEF10
	S004034	CAVEF10
	S004015	CAVEF10
	S004003	CAVEF10
	S003941	CABDF10
	S003895	CAVEF10
	S003879	CABDF10
	S003853	CABDF10
	S003825	CABDF10

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CA RS Level	Service	FMID
	S003791	CAVEF10
	S003770	CABDF10
	S003683	CAVEF10
	S001886	CAVEF10
	S001804	CABDF10
CAR1806	S001888	CABDF10
	S001724	CABDF10
	S001708	CABDF10
	S001597	CABDF10
	S001569	CABDF10
	S001512	CAVEF10
	S001439	CABDF10
	S001350	CAVEF10
	S001277	CABDF10
	S001215	CABDF10
	S000956	CAVEF10
	S000902	CAVEF10
	S000890	CAVEF10
	S000167	CABDF10
CAR1805	S001443	CABDF10
	S001390	CABDF10
	S001230	CABDF10
	S001226	CABDF10
	S001212	CABDF10
	S001184	CABDF10
	S000426	CAVEF10
CAR1804	S000922	CABDF10
	S000822	CAADF15
	S000629	CABDF10
	S000599	CABDF11
	S000369	CABDF11
	S000074	CABDF10
	S000007	CABDF10
	R099997	CABDF10
	R099171	CABDF10
CAR1803	S000657	CABDF10
	S000595	CABDF10
	S000475	CABDF10
	S000436	CABDF10
	S000315	CABDF10
CAR1802	S000035	CABDF10
	R099972	CAVEF10
	R099969	CAVEF10
	R099964	CAVEF10
	R099902	CABDF10
	R099886	CABDF10
	R099738	CABDF10

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CA RS Level	Service	FMID
	R099737	CABDF10
	R099516	CABDF10
	R099067	CABDF10
CAR1801	R099675	CABDF10
	R099532	CABDF10
	R099390	CABDF10
	R099352	CABDF10
	R099100	CABDF10
	R098976	CABDF11
	R098873	CABDF11
	R097375	CABDF11
	R096916	CABDF11
CAR1712	R099168	CAVEF10
	R099051	CAVEF10
	R099046	CADQF10
	R099007	CAVEF10
	R098973	CABDF10
	R098926	CABDF10
	R098879	CABDF10
	R098846	CABDF10
	R098800	CABDF10
	R098737	CABDF10
	R098604	CABDF10
	R098085	CABDF10
CAR1711	R098683	CABDF10
	R098636	CAADF10
	R098593	CABDF10
	R098521	CAVEF10
	R098427	CABDF11
	R098426	CABDF10
	R098417	CABDF10
	R098393	CABDF10
	R098364	CABDF10
	R098348	CABDF10
	R098249	CABDF10
	R098231	CAADF10
	R098220	CABDF10
	R098142	CABDF10
	R098059	CABDF10
CAR1710	R098204	CAADF10
	R098170	CAADF10
	R098086	CABDF10
	R097972	CABDF10
	R097932	CABDF10
	R097893	CABDF10
	R097868	CAADF10
	R097818	CABDF10

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CA RS Level	Service	FMID
	R097757	CABDF10
	R097743	CABDF10
	R097729	CABDF10
	R097723	CABDF10
	R097700	CABDF10
	R097674	CABDF10
	R097607	CAADF10
CAR1709	R097677	CABDF10
	R097639	CABDF10
	R097626	CABDF10
	R097526	CABDF10
	R097493	CAADF10
	R097490	CABDF10
	R097460	CAADF10
	R097416	CABDF10
	R097392	CABDF10
	R097386	CAADF10
	R097382	CABDF10
	R097343	CABDF10
	R097329	CABDF10
	R097238	CABDF10
	R097236	CAVEF10
	R097225	CAVEF10
	R097209	CABDF10
	R097131	CAVEF10
	R097126	CAVEF10
	R096797	CAVEF10
	R096118	CAVEF10
	R095978	CAVEF10
CAR1708	R097082	CABDF10
	R096949	CAADF10
	R096852	CABDF10
	R096824	CABDF10
	R096821	CABDF10
	R096806	CABDF10
	R096769	CABDF10
	R096719	CABDF10
	R096617	CABDF10
	R096370	CABDF10
CAR1707	R096568	CABDF10
	R096537	CAADF10
	R096499	CABDF10
	R096447	CABDF10
	R096440	CABDF10
	R096426	CABDF10
	R096420	CABDF10
	R096403	CABDF10

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CA RS Level	Service	FMID
	R096260	CABDF10
	R096191	CABDF10
	R095487	CAADF10
	R095386	CADQF10
CAR1706	R096346	CAADF10
	R096313	CABDF10
	R096312	CABDF10
	R096304	CAADF10
	R096300	CABDF10
	R096257	CAADF10
	R096252	CABDF10
	R096213	CABDF10
	R096204	CABDF10
	R096133	CABDF10
	R096053	CABDF10
	R095915	CABDF10
	R095833	CABDF10
	R095761	CABDF10
	R095719	CABDF10
	R095676	CABDF10
	R095600	CABDF10
	R095564	CABDF10
	R095097	CAADF10
	R094902	CABDF10
CAR1705	R095737	CAVEF10
	R095667	CABDF10
	R095621	CADQF10
	R095609	CAVEF10
	R095548	CABDF10
	R095352	CAVEF10
	R095305	CABDF10
	R095277	CABDF10
	R095235	CAVEF10
	R095037	CABDF10
	R094176	CABDF10
CAR1704	R095080	CABDF10
	R094912	CABDF10
	R094907	CABDF10
	R094783	CABDF10
	R094696	CAVEF10
	R094632	CABDF10
CAR1703	R094327	CABDF11
	R094324	CAVEF10
	R094280	CABDF10
	R094247	CAVEF10
	R093821	CAVEF10
	R093677	CAVEF10

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CA RS Level	Service	FMID
	R093613	CAVEF10
	R090834	CADQF10
CAR1702	R094177	CADQF10
	R094095	CABDF10
	R094090	CABDF10
	R094085	CABDF10
	R094001	CABDF10
	R094000	CABDF10
	R093647	CABDF10
	R093616	CABDF10
	R093587	CABDF10
	R093585	CABDF10
	R093148	CABDF11
CAR1701	R093666	CAVEF10
	R093560	CAVEF10
	R093454	CABDF10
	R093450	CABDF10
	R093436	CABDF10
	R093373	CAADF10
	R093324	CAVEF10
	R093251	CABDF10
	R093201	CABDF10
	R093127	CABDF10
	R093092	CABDF10
	R093061	CABDF11
	R092954	CABDF10
	R092896	CAADF15
	R092891	CADQF10
	R092864	CAVEF10
	R092858	CABDF10
	R092736	CAADF10
	R092600	CABDF10
	R092507	CAADF10
	R092441	CABDF10
	R092436	CABDF10
	R092398	CABDF10
	R092282	CAVEF10
	R092277	CABDF10
	R092259	CABDF10
	R092243	CABDF10
	R092173	CAVEF10
	R092064	CAVEF10
	R092016	CABDF11
	R092009	CAVEF10
	R091992	CAVEF10
	R091930	CAVEF10
	R091845	CABDF10

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CA RS Level	Service	FMID
	R091732	CABDF10
	R091719	CAADF10
	R091648	CABDF10
	R091632	CABDF10
	R091631	CABDF10
	R091630	CABDF10
	R091587	CABDF10
	R091515	CABDF10
	R091427	CABDF10
	R091404	CABDF10
	R091394	CABDF10
	R091352	CABDF10
	R091254	CABDF10
	R091226	CAVEF10
	R091196	CAADF10
	R091185	CAADF10
	R091180	CABDF10
	R091166	CABDF10
	R091165	CABDF10
	R091141	CABDF10
	R091115	CAVEF10
	R091079	CABDF10
	R091015	CABDF10
	R090950	CAADF10
	R090903	CABDF10
	R090854	CAVEF10
	R090838	CAADF10
	R090826	CAVEF10
	R090821	CABDF10
	R090729	CAADF10
	R090586	CABDF10
	R090535	CABDF10
	R090486	CABDF10
	R090397	CABDF10
	R090276	CABDF10
	R090216	CAVEF10
	R090197	CABDF10
	R090182	CABDF10
	R090179	CABDF10
	R090156	CAVEF10
	R090155	CAVEF10
	R090075	CABDF10
	R090074	CAADF10
	R090065	CABDF10
	R090044	CAVEF10
	R089842	CAVEF10
	R089839	CAVEF10

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CA RS Level	Service	FMID
	R089666	CABDF10
	R089559	CABDF10
	R089521	CAVEF10
	R089520	CAVEF10
	R088863	CABDF10
	R088617	CAVEF10
	R088611	CAVEF10
	R088550	CAVEF10
	R088530	CABDF10
	R088480	CAVEF10
	R088479	CAVEF10
	R088475	CAVEF10
	R088469	CABDF10