

Datacom DB Core 15.1
CA RS 2304 Service List

Service	Description	Type
LU08667	DBUTLTY LOAD CAN GET I/O ERROR WITH OPTION IO_STYLE_NEWER	PTF
LU08854	ENHANCEMENT: SQL REPEATABLE READ IMPROVEMENTS	PTF
LU08882	MERGE JOIN NOT USED WITH HASH_MUF_MEMLIMIT	PTF
LU08970	ENHANCEMENT: COUNT OF DBUTLTY LOAD DUPS IN MESSAGE DB13014E	PTF
LU09054	WRONG ROWS RETURNED WITH LEFT JOINS USING HASHING	** PRP **
LU09544	POOL_SIZE IN MUF_BFR_POOL_AREA (MPA) MAY DISPLAY AS NEGATIVE	PTF
LU09545	ENHANCEMENT: PROVIDE QA EXTENDED TESTING CAPABILITIES	PTF
The CA RS 2304 service count for this release is 7		

Datacom DB Core
CA RS 2304 Service List for CABDF10

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FMID	Service	Description	Type
CABDF10	LU08667	DBUTLTY LOAD CAN GET I/O ERROR WITH OPTION IO_STYLE_NEWER	PTF
	LU08854	ENHANCEMENT: SQL REPEATABLE READ IMPROVEMENTS	PTF
	LU08970	ENHANCEMENT: COUNT OF DBUTLTY LOAD DUPS IN MESSAGE DB13014E	PTF
	LU09544	POOL_SIZE IN MUF_BFR_POOL_AREA (MPA) MAY DISPLAY AS NEGATIVE	PTF
	LU09545	ENHANCEMENT: PROVIDE QA EXTENDED TESTING CAPABILITIES	PTF
The CA RS 2304 service count for this FMID is 5			

Datacom DB Core
CA RS 2304 Service List for CAVEF10

FMID	Service	Description	Type
CAVEF10	LU08882	MERGE JOIN NOT USED WITH HASH_MUF_MEMLIMIT	PTF
	LU09054	WRONG ROWS RETURNED WITH LEFT JOINS USING HASHING	** PRP **
The CA RS 2304 service count for this FMID is 2			

Service	Details
LU08667	LU08667 M.C.S. ENTRIES = ++PTF (LU08667) REWORK(2023061) DBUTLTY LOAD CAN GET I/O ERROR WITH OPTION IO_STYLE_NEWER PROBLEM DESCRIPTION: A DBUTLTY LOAD can fail with message: DB13010C - UNRECOVERABLE I/O ERROR when Datacom/DB Multi-User Facility (MUF) startup option IO_STYLE_NEWER (using zHPF technology) is coded. This can only occur, if the area to be loaded was allocated in cylinder quantities and the error is rare even in that case. The problem has been reported only by one site. SYMPTOMS: The DBUTLTY LOAD fails with messages: DB13010C - UNRECOVERABLE I/O ERROR DB10045E - ABNORMAL TERMINATION DUE TO ERROR(S) IMPACT: The DBUTLTY LOAD is unsuccessful, but can still be accomplished with the circumvention described below. CIRCUMVENTION: Coding SET OPTION1='IO_STYLE_NEWER NO' as the first DBUTLTY control statement of the LOAD provides a circumvention. PRODUCT(S) AFFECTED: DATAKOM/DB Release 15.1 Related Problem: DB 19280 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01124-DCM151 DESC(DBUTLTY LOAD CAN GET I/O ERROR WITH OPTION IO_STYLE_NEWER) . ++VER (Z038) FMID (CABDF10) PRE (LU01370 LU02338 LU03981 R095667 S014100) SUP (LT08667)

Service	Details
LU08854	LU08854 M.C.S. ENTRIES = ++PTF (LU08854) REWORK(2023082) ENHANCEMENT: SQL REPEATABLE READ IMPROVEMENTS ENHANCEMENT DESCRIPTION: This product enhancement delivers updated Datacom/DB code which can improve the performance of an SQL isolation level "repeatable read" query when the query is run while another Datacom task is executing a 24x7 tool, such as Table Alter 24x7. PRODUCT(S) AFFECTED: Datacom/DB Release 15.1 Datacom SQL Release 15.1 Related Problem: DB 19452 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01131-DCM151 DESC(ENHANCEMENT: SQL REPEATABLE READ IMPROVEMENTS). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU02338 LU03183 LU03981 LU08669 R088469 R088863 R090075 R090486 R091015 R091404 R091632 R092259 R092858 R094095 R095548 R096053 R096260 R096852 R097082 R097818 R098059 R098348 S001597 S004298 S004565 S006133 S006365 S006692 S007835 S008622 S009474 S010109 S011479 S011975 S014507 S015871) SUP (AS06692 LT01677 LT05105 LT06820 LT08854 LU01677 LU05105 LU06820 OC90081 R091630 S005617 S007113 S007202 ST05617 ST07113 ST07202 TR91630)

Service	Details
LU08882	LU08882 M.C.S. ENTRIES = ++PTF (LU08882) REWORK(2023087) MERGE JOIN NOT USED WITH HASH_MUF_MEMLIMIT PROBLEM DESCRIPTION: The SQL Optimizer only selects a hash join when there is no high-order matching key. With a matching key, nested-loop join is selected. However, in some cases a merge join is much faster than a nested loop join, even with a high-order matching key. With hash joins turned on with the MUF parm HASH_MUF_MEMLIMIT greater than zero, queries that can use the faster index and sort merge joins are using the much slower nested loop join method. SYMPTOMS: Performance is slower for such joins. IMPACT: Performance in this situation may be unacceptable. CIRCUMVENTION: You can force a hash or merge join using this predicate in the ON clause: AND DATACOM_OPTIMIZATION = 'USE HASH JOIN' AND DATACOM_OPTIMIZATION = 'USE MERGE JOIN' PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 19474 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01132-DCM151 DESC(MERGE JOIN NOT USED WITH HASH_MUF_MEMLIMIT). ++VER (Z038) FMID (CAVEF10) PRE (LU00985 LU01216 LU02878 LU03281 LU03984 LU05024 LU06158 LU07060 LU07380 LU08300 R090216 R090826 S001886 S004034 S007468 S007544 S011326) SUP (BR90826 CR90826 HC92212 LT05343 LT08882 LU05343 R089520 R098521 S001350 S004889 S004969 ST01350 ST04889 ST04969 TR89520 TR98438 TR98521)

Service	Details
LU08970	LU08970 M.C.S. ENTRIES = ++PTF (LU08970) REWORK(2023080) ENHANCEMENT: COUNT OF DBUTLTY LOAD DUPS IN MESSAGE DB13014E ENHANCEMENT DESCRIPTION: This product enhancement delivers code which implements Datacom DBUTLTY LOAD changes to support the inclusion of a count of duplicate records in new message: DB13014E - DATA RECORD(S) LOADED WITH DUPLICATE MASTER KEY OR UNIQUE, TOTAL cccccccc Where cccccccc denotes the number of duplicate rows encountered during the DBUTLTY LOAD. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 19539 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01135-DCM151 DESC(ENHANCEMENT: COUNT OF DBUTLTY LOAD DUPS IN MESSAGE DB13014E). ++VER (Z038) FMID (CABDF10) PRE (LU00290 LU01370 LU02536 LU02807 LU03154 LU03981 LU05809 LU06820 LU07557 R088863 R090903 R092441 R094095 R095667 R096852 R097209 R097757 R098348 R098604 R099902 S000436 S001226 S004931 S006748 S009367 S010109 S011247 S011906 S011975 S012203 S013594 S014651) SUP (AL00112 AL01689 LT00112 LT00265 LT00692 LT02040 LT02107 LT02221 LT02919 LT03836 LT05134 LT05938 LT06411 LT08970 LU00112 LU00265 LU00692 LU02040 LU02107 LU02221 LU02919 LU03836 LU05134 LU05938 LU06411 R089559 R096420 S001390 S006547 S007320 S013370 ST01390 ST06547 ST07320 ST13370 TR89559 TR96420) ++HOLD (LU08970) SYSTEM FMID(CABDF10) REASON (DOC) DATE (23080) COMMENT (+-----+ DATAACOM/DB Release 15.1 +-----+ ***** * PUBLICATION * ***** Documentation for the DBUTLTY LOAD option LOADDUPS changes included in this solution can be found in the Datacom Core - 15.1 TechDocs space, which can be found at the following link by carefully removing the imbedded blanks it contains: https://techdocs.broadcom.com/us/en/ca-mainframe-software/database-management/ca-datacom/15-1/release-notes/ca-datacom-features.html).

Service	Details
LU09054	LU09054 M.C.S. ENTRIES = ++PTF (LU09054) REWORK(2023087) WRONG ROWS RETURNED WITH LEFT JOINS USING HASHING PROBLEM DESCRIPTION: When the outer table of a hash join is the result of a previous LEFT JOIN, the value to search the hash table is incorrect, so the wrong rows are returned. SYMPTOMS: The wrong rows are returned. Usually too few rows are returned with an INNER join, and LEFT joins appear to not have found a matching row. IMPACT: The query returns wrong rows. CIRCUMVENTION: Although performance will be worse, you can force a nested-loop join using AND DATACOM_OPTIMIZATION = 'USE NESTED-LOOP JOIN' in the ON clause of the hash join that follows a LEFT JOIN. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 19623 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01138-DCM151 DESC(WRONG ROWS RETURNED WITH LEFT JOINS USING HASHING) . ++VER (Z038) FMID (CAVEF10) PRE (LU00985 LU01216 LU02878 LU03281 LU03984 LU05024 LU05231 LU06158 LU07060 LU07179 LU07380 LU08004 LU08300 R090216 R090826 R095978 S000890 S001886 S004034 S004197 S005935 S007544 S008017 S008336 S011326 S011629 S014825) SUP (AL08798 AR90826 AS14825 BR90826 CR90826 DC92212 HC92212 LT00056 LT01153 LT05343 LT06895 LT07062 LT08798 LT08882 LT09054 LU00056 LU01153 LU05343 LU08798 LU08882 R089520 R095609 R098521 R099972 S001350 S004889 S004969 S005352 S007468 S014369 ST01350 ST04889 ST04969 ST05352 ST07468 ST14369 TR89520 TR95609 TR98438 TR98521 TR99972)

Service	Details
LU09544	LU09544 M.C.S. ENTRIES = ++PTF (LU09544) REWORK(2023087) POOL_SIZE IN MUF_BFR_POOL_AREA (MPA) MAY DISPLAY AS NEGATIVE PROBLEM DESCRIPTION: The POOL_SIZE field of the MUF_BFR_POOL_AREA (MPA) Dynamic System Table is a derived value from multiplying BUFFER_SIZE by POOL_BLOCKS. If BUFFER_SIZE is 32768 the resulting POOL_SIZE displays as negative. SYMPTOMS: A negative number is displayed for POOL_SIZE. IMPACT: With BUFFER_SIZE 32768, using POOL_SIZE in any calculations will not reflect the expected sign. CIRCUMVENTION: Using the absolute value of POOL_SIZE in calculations provides a circumvention. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 19992 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01147-DCM151 DESC(POOL_SIZE IN MUF_BFR_POOL_AREA (MPA) MAY DISPLAY AS NEGATIVE). ++VER (Z038) FMID (CABDF10) PRE (LU01863 LU03981 LU04745 R088469 R093251 S006748 S013398 S014507 S015187 S015871) SUP (LT09544 S001837 S006422 ST01837 ST06422)

Service	Details
LU09545	LU09545 M.C.S. ENTRIES = ++PTF (LU09545) REWORK(2023081) ENHANCEMENT: PROVIDE QA EXTENDED TESTING CAPABILITIES ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code that is needed to facilitate internal QA testing. PRODUCT(S) AFFECTED: DATAKOM/DB Release 15.1 Related Problem: DB 19995 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R01148-DCM151 DESC(ENHANCEMENT: PROVIDE QA EXTENDED TESTING CAPABILITIES). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU00290 LU01916 LU02338 LU02807 LU03183 LU03981 LU04668 LU04772 LU07828 LU08669 R088530 R090903 R091015 R091632 R092259 R094280 R094783 R095667 R098683 R098926 R099738 R099997 S001215 S007233 S010082 S010748 S011951 S013162 S014079 S015187) SUP (AS01215 AS08152 BC90081 LT00061 LT01374 LT02355 LT02910 LT05174 LT05261 LT05394 LT06592 LT06889 LT07058 LT07553 LT09545 LU00061 LU01374 LU02910 LU05174 LU05261 LU05394 LU06592 LU06889 LU07058 LU07553 R093450 R096806 S003866 S004783 S006519 S008152 S008488 S009270 S010373 S014169 S016006 ST03866 ST04783 ST06519 ST08152 ST08488 ST09270 ST10373 ST14169 ST16006 TR93450 TR96806 YC90081) MCS LU08667 STARTS ON PAGE 0002 MCS LU08854 STARTS ON PAGE 0002 MCS LU08882 STARTS ON PAGE 0003 MCS LU08970 STARTS ON PAGE 0004 MCS LU09054 STARTS ON PAGE 0006 MCS LU09544 STARTS ON PAGE 0007 MCS LU09545 STARTS ON PAGE 0008

Datacom DB Core 15.1
CA RS 2304 Product/Component Listing

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Product Family	Product	Release
Database Management	CA DATACOM DATADITIONARY	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 2304 Product/Component Count for this release is 7		

CA RS Level	Service	FMID
CAR2304	LU09545	CABDF10
	LU09544	CABDF10
	LU09054	CAVEF10
	LU08970	CABDF10
	LU08882	CAVEF10
	LU08854	CABDF10
	LU08667	CABDF10
CAR2303	LU09005	CABDF10
	LU08945	CAVEF10
	LU08897	CABDF10
	LU08798	CAVEF10
	LU08740	CAVEF10
	LU08723	CABDF10
	LU08589	CABDF10
CAR2302	LU08821	CAADF10
	LU08781	CAVEF10
	LU08669	CABDF10
	LU08300	CAVEF10
	LU08004	CAVEF10
	LU07880	CABDF10
CAR2301	LU08605	CABDF10
	LU08468	CABDF10
	LU08413	CAVEF10
	LU08394	CABDF10
	LU08379	CABDF10
	LU08365	CABDF10
	LU08354	CABDF10
	LU07733	CAVEF10
	LU07309	CABDF10
CAR2212	LU08219	CABDF10
	LU07941	CABDF10
	LU07896	CABDF10
	LU07865	CABDF10
	LU07828	CABDF10
	LU07757	CABDF10
	LU06941	CABDF10
CAR2211	LU07823	CAVEF10
	LU07812	CAVEF10
	LU07738	CABDF10
	LU07736	CAVEF10
	LU07677	CABDF10
	LU07676	CAADF10
	LU07566	CAVEF10
	LU07557	CABDF10
	LU07503	CABDF10
	LU07502	CAVEF10
	LU07399	CABDF10

CA RS Level	Service	FMID
	LU07380	CAVEF10
	LU07312	CABDF10
	LU07230	CAVEF10
	LU07182	CABDF10
	LU07115	CABDF10
	LU07060	CAVEF10
	LU06286	CABDF10
CAR2210	LU07553	CABDF10
	LU07364	CABDF10
	LU07339	CABDF10
	LU07336	CABDF10
	LU07285	CAVEF10
	LU07179	CAVEF10
	LU07172	CABDF10
	LU07156	CAVEF10
	LU07007	CABDF10
	LU06911	CAVEF10
	LU05939	CABDF10
CAR2209	LU07058	CABDF10
	LU06923	CAVEF10
	LU06896	CABDF10
	LU06892	CABDF10
	LU06889	CABDF10
	LU06820	CABDF10
	LU06772	CAVEF10
	LU06730	CABDF10
	LU06592	CABDF10
	LU06500	CABDF10
	LU06243	CABDF10
	LU06158	CAVEF10
CAR2208	LU06466	CAADF10
	LU06437	CABDF10
	LU06411	CABDF10
	LU06329	CAVEF10
	LU06295	CABDF10
	LU05938	CABDF10
	LU05861	CABDF10
	LU05844	CABDF10
CAR2207	LU06182	CABDF10
	LU06105	CABDF10
	LU06017	CAVEF10
	LU05950	CAVEF10
	LU05859	CABDF10
	LU05782	CABDF10
	LU05727	CAADF10
CAR2206	LU06026	CABDF10
	LU05899	CABDF10

CA RS Level	Service	FMID
	LU05809	CABDF10
	LU05789	CAADF10
	LU05712	CABDF10
	LU05611	CABDF10
	LU05569	CABDF10
	LU05412	CAVEF10
	LU05394	CABDF10
	LU05391	CAVEF10
	LU05343	CAVEF10
	LU04999	CABDF10
CAR2205	LU05487	CAADF10
	LU05469	CAADF10
	LU05374	CAADF10
	LU05261	CABDF10
	LU05231	CAVEF10
	LU05172	CABDF11
	LU05105	CABDF10
	LU05049	CAADF10
	LU04745	CABDF10
CAR2204	LU05180	CABDF10
	LU05174	CABDF10
	LU05134	CABDF10
	LU05024	CAVEF10
	LU04994	CABDF10
	LU04979	CABDF10
	LU04920	CADQF10
	LU04872	CABDF10
	LU04772	CABDF10
	LU04558	CABDF10
	LU04537	CADQF10
	LU04449	CAVEF10
	LU01844	CABDF10
CAR2203	LU04672	CABDF10
	LU04668	CABDF10
	LU04590	CAVEF10
	LU04574	CAADF10
	LU04569	CABDF10
	LU04513	CAVEF10
	LU04510	CABDF10
	LU04456	CAVEF10
	LU04345	CABDF10
	LU03773	CAVEF10
CAR2202	LU04183	CAADF10
	LU04166	CABDF10
	LU03914	CAVEF10
	LU03833	CAADF10
	LU03776	CABDF10

CA RS Level	Service	FMID
	LU03534	CADQF10
	LU03028	CABDF10
	LU02919	CABDF10
CAR2201	LU03985	CAZNF10
	LU03984	CAVEF10
	LU03983	CADQF10
	LU03982	CABDF11
	LU03981	CABDF10
	LU03980	CAADF15
	LU03979	CAADF10
	LU03888	CAADF10
	LU03836	CABDF10
	LU03816	CAADF10
	LU03700	CABDF10
	LU03458	CABDF10
	LU03423	CABDF10
	LU03281	CAVEF10
	LU03203	CABDF10
	LU03183	CABDF10
	LU01391	CAVEF10
	LU01082	CAVEF10
CAR2112	LU03525	CABDF10
	LU03383	CAADF10
	LU03351	CABDF11
	LU03297	CABDF10
	LU03295	CAADF10
	LU03154	CABDF10
	LU02878	CAVEF10
	LU02404	CAVEF10
	LU02152	CAVEF10
CAR2111	LU03070	CABDF10
	LU02970	CABDF10
	LU02943	CABDF10
	LU02910	CABDF10
	LU02898	CAVEF10
	LU02879	CAVEF10
	LU02864	CABDF10
	LU02645	CAVEF10
CAR2110	LU02807	CABDF10
	LU02698	CAVEF10
	LU02647	CAVEF10
	LU02640	CAVEF10
	LU02623	CABDF10
	LU02610	CAADF10
	LU02536	CABDF10
	LU02338	CABDF10
	LU02239	CAVEF10

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

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

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

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

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

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

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

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

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

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

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

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

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

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