

Datacom DB Core 15.1
CA RS 2209 Service List

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Service	Description	Type
LU06158	SQLCODE -161 WITH HASH LEFT JOIN ON DIFF DECIMAL COLUMNS	** PRP **
LU06243	MUF ABORTS WITH A SOC1 IN CAS9SEC AFTER A CAIRIM SSF REFRESH	PTF
LU06500	ENHANCEMENT: PARTITIONED TABLE SUPPORT FOR ONLINE_TABLE_MOVE	PTF
LU06592	ONLINE_AREA_RELEASE FAILS WITH A DYNAMIC ALLOCATION ERROR	PTF
LU06730	CORRECTION TO PTF LU05782 WHEN A BLANK FOLLOWS URTNAME	** PRP **
LU06772	SQLCODE -20 : LENGTH OF FIRST LINE QUERY EXCEEDS INPUTWIDTH	PTF
LU06820	ENHANCEMENT: MODERNIZE INTERNAL DATACOM CODE FOR VALUE LOCKS	PTF
LU06889	ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS	PTF
LU06892	ENHANCEMENT: DATACOM/AD SUPPORT FOR IBM FUNCTION REGISTRY	PTF
LU06896	ENHANCEMENT: VSAM LINEAR SUPPORT FOR BA24 AND TM24	PTF
LU06923	MESSAGES IN MUF SQL SYSOUT SCV STMT CNT ALREADY ZERO	** PRP **
LU07058	RARE TASK HANG IN WAIT FOR EXCLUSIVE CONTROL OF A ROW	PTF
The CA RS 2209 service count for this release is 12		

Datacom DB Core
CA RS 2209 Service List for CABDF10

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FMID	Service	Description	Type
CABDF10	LU06243	MUF ABORTS WITH A S0C1 IN CAS9SEC AFTER A CAIRIM SSF REFRESH	PTF
	LU06500	ENHANCEMENT: PARTITIONED TABLE SUPPORT FOR ONLINE_TABLE_MOVE	PTF
	LU06592	ONLINE_AREA_RELEASE FAILS WITH A DYNAMIC ALLOCATION ERROR	PTF
	LU06730	CORRECTION TO PTF LU05782 WHEN A BLANK FOLLOWS URTNAME	** PRP **
	LU06820	ENHANCEMENT: MODERNIZE INTERNAL DATACOM CODE FOR VALUE LOCKS	PTF
	LU06889	ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS	PTF
	LU06892	ENHANCEMENT: DATACOM/AD SUPPORT FOR IBM FUNCTION REGISTRY	PTF
	LU06896	ENHANCEMENT: VSAM LINEAR SUPPORT FOR BA24 AND TM24	PTF
	LU07058	RARE TASK HANG IN WAIT FOR EXCLUSIVE CONTROL OF A ROW	PTF
The CA RS 2209 service count for this FMID is 9			

Datacom DB Core
CA RS 2209 Service List for CAVEF10

FMID	Service	Description	Type
CAVEF10	LU06158	SQLCODE -161 WITH HASH LEFT JOIN ON DIFF DECIMAL COLUMNS	** PRP **
	LU06772	SQLCODE -20 : LENGTH OF FIRST LINE QUERY EXCEEDS INPUTWIDTH	PTF
	LU06923	MESSAGES IN MUF SQL SYSOUT SCV STMT CNT ALREADY ZERO	** PRP **
The CA RS 2209 service count for this FMID is 3			

Service	Details
LU06158	LU06158 M.C.S. ENTRIES = ++PTF (LU06158) The following items are included in this solution: 1. SQLCODE -161 WITH HASH LEFT JOIN ON DIFF DECIMAL COLUMNS 2. INSERT STATEMENTS STAYING IN THE SOURCE CACHE 3. SQLCODE -120 ERROR MESSAGE ENHANCEMENT FOR OLDER DATES 4. NO ROWS FOUND WITH DSTS AND INNER JOIN SYNTAX 5. NO ROWS FOUND WITH SUBSTR IN JOIN PREDICATE ===== SQLCODE -161 WITH HASH LEFT JOIN ON DIFF DECIMAL COLUMNS PROBLEM DESCRIPTION: When all the following are true, the query is rejected with SQLCODE -161 (invalid decimal value): 1. A hash join is used. Unless manually specified with DATACOM_OPTIMIZATION, this means the inner table join columns are not indexed. 2. The join is a LEFT join. 3. The inner table join columns are NOT nullable. 4. The join columns are packed or zone decimal (DEC or NUMERIC). 5. The outer join table's join columns have higher precision or scale. Example: <pre>SELECT * FROM T16875A T1 LEFT JOIN T16875B T2 ON T1.COL4 = T2.COL4; T2.COL4 is not indexed, so a hash join is used. T1.COL4 is DECIMAL(5,3) and T2.COL4 is DECIMAL(5,2).</pre> SYMPTOMS: The query fails with SQLCODE -161. IMPACT: The query cannot execute. CIRCUMVENTION: Use "AND DATACOM_OPTIMIZATION = 'USE NESTED-LOOP JOIN' in the ON clause. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 16875 ===== INSERT STATEMENTS STAYING IN THE SOURCE CACHE PROBLEM DESCRIPTION: INSERT statements are not being freed from the Source Cache when they are executed more than once. In other words, when the INSERT is found in the source cache and not prepared. This can reduce the effectiveness of the source cache and take excess memory. SYMPTOMS: No known symptoms exist except the memory used can exceed the source cache limit. IMPACT: Little impact is expected. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 17639 =====

Service	Details
	SQLCODE -120 ERROR MESSAGE ENHANCEMENT FOR OLDER DATES ENHANCEMENT DESCRIPTION: This enhancement supplements SQLCODE -120 error message with a list of possible timestamps for a program. Due to the truncation of the timestamp stored in a statement, it is not always possible to recreate older dates. A list of dates with all possible combinations of "lost" bits is provided to solve the issue. This new information is printed in the MUF SQL SYSOUT. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 17654 ===== NO ROWS FOUND WITH DSTS AND INNER JOIN SYNTAX PROBLEM DESCRIPTION: There is a case where using hash joins for performance on Dynamic System Tables (DST), and INNER JOIN syntax without an ON clause, creates an internal error which is not reported. So the query just returns no rows found. SYMPTOMS: The query returns no rows found when there are rows. IMPACT: The query returns incorrect results. CIRCUMVENTION: Convert from INNER JOIN syntax to comma-separated syntax, or use an ON clause. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 17685 ===== NO ROWS FOUND WITH SUBSTR IN JOIN PREDICATE PROBLEM DESCRIPTION: PTF S014068 allowed a join predicate using SUBSTR with a starting position greater than 1 to be passed to CBS for a nested-loop join for better performance. However, it also allowed it to be used with a sortmerge join, and that performs an incorrect comparison and usually returns no rows. This solution backs out S014068. However, the predicate is still used in a nested-loop join due to subsequent improvements in a later PTF. So there is no loss in performance. SYMPTOMS: Usually no rows are returned. IMPACT: The query does not return the correct rows. CIRCUMVENTION: Use INNER JOIN syntax to force a nested loop join. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 17782 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01027-DCM151 DESC(SQLCODE -161 WITH HASH LEFT JOIN ON DIFF DECIMAL COLUMNS). ++VER (Z038)

Service	Details
	FMID (CAVEF10) PRE (LU00087 LU00985 LU00988 LU01149 LU01216 LU02152 LU02239 LU02698 LU02878 LU02879 LU03281 LU03914 LU03984 LU05024 LU05231 R090216 R090826 R092064 R095978 R097131 R097225 S000890 S001886 S004034 S004197 S004243 S005243 S005343 S005935 S006396 S006440 S006473 S007544 S008017 S008336 S008801 S009551 S010328 S011192 S011326 S011629 S012497 S014105 S014147 S014725 S014825 S015165 S015827 S016078) SUP (AL02152 AL05231 AR90826 AS12743 AS14825 BR90826 BS11629 CR90826 DC92212 EL02878 HC92212 LT00056 LT01153 LT01331 LT02647 LT04513 LT05343 LT05741 LT06017 LT06158 LT06654 LU00056 LU01153 LU01331 LU02647 LU04513 LU05343 LU06017 R089520 R089842 R093821 R095609 R098521 R099972 S001350 S004003 S004889 S004969 S005352 S007468 S010380 S012743 S013630 S014068 S014369 S014578 ST01350 ST04003 ST04889 ST04969 ST05352 ST07468 ST09801 ST10380 ST12743 ST13630 ST14068 ST14369 ST14578 TR89520 TR89842 TR93821 TR95609 TR98438 TR98521 TR99972) ++HOLD (LU06158) SYSTEM FMID(CAVEF10) REASON (DOC) DATE (22217) COMMENT (<pre> +-----+ DATACOM SQL Release 15.1 +-----+ ***** * PUBLICATION * ***** Documentation for the SQLCODE -120 error message enhancement for older dates included in this solution can be found in the Datacom Messages 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-messages/1-0/ca-datacom-db-messages/sql-codes/ 120-program-timestamp-timestamp-in-decimal-not-plan-timestamp- timestamp-in-decimal.html) </pre>

Datacom DB Core 15.1
CA RS 2209 - PTF LU06243 Details

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Service	Details
LU06243	LU06243 M.C.S. ENTRIES = ++PTF (LU06243) MUF ABORTS WITH A SOC1 IN CAS9SEC AFTER A CAIRIM SSF REFRESH PROBLEM DESCRIPTION: The Datacom/DB Multi-User Facility (MUF) can abort with a SOC1 in Common Services module CAS9SEC. The abend can occur when the CAIRIM SSF environment is refreshed with CAIRIM PARM(REFRESH(SSF)) while MUF is up. SYMPTOMS: MUF aborts with the following message: CCSR010E DBMUFPR SOC1 at 00C5B72C LMOD CAS9SEC CSECT CAS9SEC +00003C DATACOM IMPACT: There is an outage of the MUF. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATACOM/DB Release 15.1 Related Problem: DB 17373 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01042-DCM151 DESC(MUF ABORTS WITH A SOC1 IN CAS9SEC AFTER A CAIRIM SSF REFRESH). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU03981 R090486 R090903 R093647 S005738) SUP (LT06243 R091732 R096312 TR91732 TR96312)

Service	Details
LU06500	LU06500 M.C.S. ENTRIES = ++PTF (LU06500) ENHANCEMENT: PARTITIONED TABLE SUPPORT FOR ONLINE_TABLE_MOVE ENHANCEMENT DESCRIPTION: This product enhancement delivers code which implements Datacom changes to support Online Table Move (TM24) for Partitioned Tables. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 17641 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01049-DCM151 DESC(ENHANCEMENT: PARTITIONED TABLE SUPPORT FOR ONLINE_TABLE_MOVE). ++VER (Z038) FMID (CABDF10) PRE (LU00189 LU00290 LU01916 LU02338 LU02807 LU03700 LU03981 LU04668 LU05809 R088863 R090903 R091015 R091404 R091632 R092259 R092858 R093647 R094095 R096499 R099171 S001215 S003799 S003941 S005882 S006692 S007233 S007900 S009474 S010748 S011247 S011678 S011975 S012203 S012932 S013156 S013882 S015187) SUP (LT01302 LT06500 LU01302 R095833 R096568 R097343 R099067 S005131 S008749 S011501 S014070 S015912 S016049 ST05131 ST08749 ST11501 ST14070 ST15912 ST16049 TR95833 TR96568 TR97343 TR99067 VC90081) ++HOLD (LU06500) SYSTEM FMID(CABDF10) REASON (DOC) DATE (22231) COMMENT (-----+ DATAACOM/DB Release 15.1 -----+ ***** * PUBLICATION * ***** Documentation for this new Partitioned Table support for TM24 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-and-product-information/ca-datacom-features.html#concept.dita_f218b23279e7fe60d232df04109c53a67a820049_tm24PartitionTableSupport).

Service	Details
LU06592	LU06592 M.C.S. ENTRIES = ++PTF (LU06592) ONLINE_AREA_RELEASE FAILS WITH A DYNAMIC ALLOCATION ERROR PROBLEM DESCRIPTION: The Datacom/DB Multi-User (MUF) console command ONLINE_AREA_RELEASE fails with a Dynamic Allocation error and receives an OPEN error during the REOPEN after the requested space has been logically released. SYMPTOMS: The command aborts and displays the following messages: DB02829I - ONLINE_AREA_RELEASE bbbb aaa STATUS STARTED DB02829I - ONLINE_AREA_RELEASE bbbb aaa STATUS LOGICAL SPACE RELEASED DB01401E - MVS DYNAMIC ALLOCATION ERROR, DDNAME= , R15=12, ERROR=035C,INFO=0001 DB01417E - DYNALLOC ERROR, ddddd DB00501E - OPEN ERROR - RETURN CODE (001) CXX=cccccccc () DB02828E - ONLINE_AREA_RELEASE bbbb aaa ERROR REOPEN (1) where aaa denotes the area name, bbbb the DBID, ddddd the dataset name and ccccc the name of the CXX. The DDNAME in messages DB01401E and DB01417E is corrupted, message DB00501E as well as message DB02828E display blanks or invalid data for the external return code. Message DB00501E also shows blanks or invalid data for the area name and the DBID. IMPACT: ONLINE_AREA_RELEASE can not be used to release space in the area dataset. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 17665 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01050-DCM151 DESC(ONLINE_AREA_RELEASE FAILS WITH A DYNAMIC ALLOCATION ERROR). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU00290 LU01916 LU02338 LU02807 LU03183 LU03981 LU04668 LU04772 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 LU00061 LU01374 LU02910 LU05174 LU05261 LU05394 R093450 R096806 S003866 S004783 S006519 S008152 S008488 S009270 S010373 S014169 S016006 ST03866 ST04783 ST06519 ST08152 ST08488 ST09270 ST10373 ST14169 ST16006 TR93450 TR96806 YC90081)

Service	Details
LU06730	LU06730 M.C.S. ENTRIES = ++PTF (LU06730) CORRECTION TO PTF LU05782 WHEN A BLANK FOLLOWS URTNAME PROBLEM DESCRIPTION: PTF LU05782 substitutes an asterisk "*" as the first character of a URT name coded as a PARM on the JCL EXEC statement if the name is invalid because it contains more than 8 characters. The substituted asterisk then causes an S806 error (module not found) for the invalid URT name. However, LU05782 also produces the error in the same way if a blank and another specification follows a legitimate eight character URT name. For example: EXEC PGM=program,PARM='parm1,URT=ABCDEFGH CDE=A' causes an S806 for module *BCDEFGH. SYMPTOMS: The asterisk substituted as the first character of a legitimate eight character URT name causes an S806 error. IMPACT: The program execution fails. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 17755 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01053-DCM151 DESC(CORRECTION TO PTF LU05782 WHEN A BLANK FOLLOWS URTNAME) . ++VER (Z038) FMID (CABDF10) PRE (LU03981) SUP (AL05782 LT05782 LT06730 LU05782)

Service	Details
LU06772	LU06772 M.C.S. ENTRIES = ++PTF (LU06772) SQLCODE -20 : LENGTH OF FIRST LINE QUERY EXCEEDS INPUTWIDTH PROBLEM DESCRIPTION: If INPUTWIDTH=n is specified, set to below 80 and the length of first line of the query is greater the INPUTWIDTH, the character at n+1 position is included in the query resulting in BAD SYNTAX error. SYMPTOMS: The query results in SQLCODE = -20, SQLSTATE=42601, MESSAGE = BAD SYNTAX ERROR IMPACT: The query is not executed and fails with syntax error CIRCUMVENTION: Insert a comment on the first line. Or ensure the length of the first line is less than 'n'. PRODUCT(S) AFFECTED: DATAACOM SQL Release 15.1 Related Problem: SQL 17835 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01054-DCM151 DESC(SQLCODE -20 : LENGTH OF FIRST LINE QUERY EXCEEDS INPUTWIDTH). ++VER (Z038) FMID (CAVEF10) PRE (LU03773 LU03984 LU05950) SUP (CC92212 LT02404 LT06772 LU02404 R097236 R099969 S007461 S009190 S010586 S012504 S013093 S013892 ST01846 ST04929 ST07461 ST07727 ST09190 ST10586 ST12504 ST13093 ST13892 TR90841 TR97236 TR99969)

Service	Details
LU06820	LU06820 M.C.S. ENTRIES = ++PTF (LU06820) ENHANCEMENT: MODERNIZE INTERNAL DATACOM CODE FOR VALUE LOCKS ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code which modernizes the internal code which supports Datacom value locking. PRODUCT(S) AFFECTED: DATACOM/DB Release 15.1 Related Problem: DB 17925 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01055-DCM151 DESC (ENHANCEMENT: MODERNIZE INTERNAL DATACOM CODE FOR VALUE LOCKS). ++VER (Z038) FMID (CABDF10) PRE (LU01079 LU03525 LU03981 LU04999 LU05611 LU05809 LU06437 R088863 R090075 R091632 R092259 R094095 S006133 S009474) SUP (LT06820)

Service	Details
LU06889	LU06889 M.C.S. ENTRIES = ++PTF (LU06889) ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code which will form the basis for code changes in the future. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 17971 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01056-DCM151 DESC(ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU00290 LU01916 LU02338 LU02807 LU03183 LU03981 LU04668 LU04772 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 LU00061 LU01374 LU02910 LU05174 LU05261 LU05394 LU06592 R093450 R096806 S003866 S004783 S006519 S008152 S008488 S009270 S010373 S014169 S016006 ST03866 ST04783 ST06519 ST08152 ST08488 ST09270 ST10373 ST14169 ST16006 TR93450 TR96806 YC90081)

Service	Details
LU06892	LU06892 M.C.S. ENTRIES = ++PTF (LU06892) ENHANCEMENT: DATACOM/AD SUPPORT FOR IBM FUNCTION REGISTRY ENHANCEMENT DESCRIPTION: This product enhancement delivers updated Datacom/DB code which enables Datacom/AD registration with the IBM Function Registry for z/OS. PRODUCT(S) AFFECTED: DATACOM/DB Release 15.1 DATACOM/AD Release 15.1 Related Problem: DB 17903 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01057-DCM151 DESC (ENHANCEMENT: DATACOM/AD SUPPORT FOR IBM FUNCTION REGISTRY) . ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU00174 LU02418 LU03458 LU03981 LU04345 LU04999 LU05844 LU06026 LU06243 LU06889 R088469 R088530 R090075 R090276 R090486 R090903 R091015 R091632 R092259 R092858 R093251 R094001 R095548 R095667 R096499 R097082 R097626 R097818 R099532 R099902 S001597 S001708 S003799 S005738 S006365 S006692 S007900 S008120 S009683 S013716 S014507 S015871) SUP (AS11513 AS11965 LT01365 LT01545 LT04994 LT06892 LU01365 LU01545 LU04994 R096312 R099390 S000035 S003692 S005278 S008294 S010571 S011965 S014256 S014542 S015186 ST00035 ST03692 ST05278 ST08294 ST10571 ST11965 ST14256 ST14542 ST15186 TR96312 TR99390)

Service	Details
LU06896	LU06896 M.C.S. ENTRIES = ++PTF (LU06896) ENHANCEMENT: VSAM LINEAR SUPPORT FOR BA24 AND TM24 ENHANCEMENT DESCRIPTION: This product enhancement delivers code which implements Datacom changes to support Blocksize Alter 24X7 (BA24) and Online Table Move 24X7 (TM24) for VSAM Linear datasets with Media Manager. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 17992 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01059-DCM151 DESC(ENHANCEMENT: VSAM LINEAR SUPPORT FOR BA24 AND TM24). ++VER (Z038) FMID (CABDF10) PRE (LU03981 LU05861 R090075 R092259 R093647 R094095 R094783 R096440 S007519 S008926 S010748 S013594) SUP (LT06896) ++HOLD (LU06896) SYSTEM FMID(CABDF10) REASON (DOC) DATE (22222) COMMENT (+-----+ DATAACOM/DB Release 15.1 +-----+ ***** * PUBLICATION * ***** Documentation for this new BA24 and TM24 support of VSAM Linear datasets 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-and-product-information/ca-datacom-features.html#concept.dita_f218b23279e7fe60d232df04109c53a67a820049_vsamWithSupportForBA24andTM24).

Service	Details
LU06923	LU06923 M.C.S. ENTRIES = ++PTF (LU06923) MESSAGES IN MUF SQL SYSOUT SCV STMT CNT ALREADY ZERO PROBLEM DESCRIPTION: After applying LU06158 the MUF SQL SYSOUT contains messages when Dynamic SQL is executed. SYMPTOMS: The message: STMTDEL: SCV STMT CNT ALREADY ZERO (address) appears each time a Dynamic SQL cursor is closed. IMPACT: This can only be a problem in a very rare case where the cursor being closed was deleted from the Source Cache to make room for more recently-executed statements when this Dynamic Cursor was re-executed without being prepared in the same LUW. In this case, a memory overlay could occur if the cursor's memory has been reused during the life of the cursor. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM SQL Release 15.1 Related Problem: SQL 18018 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01061-DCM151 DESC(MESSAGES IN MUF SQL SYSOUT SCV STMT CNT ALREADY ZERO). ++VER (Z038) FMID (CAVEF10) PRE (LU02698 LU02879 LU03281 LU03984 LU05024 LU06017 LU06158 R092064 S004197 S004243 S009551 S011192 S011629 S014578 S015827) SUP (AL06158 LT01331 LT02647 LT06923 LU01331 LU02647 R093821 TR93821)

Service	Details	
LU07058	LU07058 M.C.S. ENTRIES = ++PTF (LU07058) RARE TASK HANG IN WAIT FOR EXCLUSIVE CONTROL OF A ROW PROBLEM DESCRIPTION: Tasks in the Datacom/DB Multi-User Facility (MUF) can hang waiting for exclusive control over a data row. This can occur if the z/OS OPEN of the datasets of the corresponding base is deferred according to startup option or console-like command ACCESS DF_DS_OP. In addition, the problem is timing related and only occurs with exclusive control contention for a row in a base immediately following the OPEN of that base. This condition and therefore the problem is rare. SYMPTOMS: One or more tasks are hanging in E/C (exclusive control) WAIT until the time limit, if any, has been reached. A STATUS report shows these tasks in "WAIT E/C". A REQABORT command for such tasks is accepted and processed, but erroneously has no effect on the WAIT status. IMPACT: Tasks can hang until they time out or permanently. Since REQABORT does not succeed, permanently hanging tasks can only be freed by cycling the MUF. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 18065 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01065-DCM151 DESC(RARE TASK HANG IN WAIT FOR EXCLUSIVE CONTROL OF A ROW). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU00290 LU01916 LU02338 LU02807 LU03183 LU03981 LU04668 LU04772 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 LU00061 LU01374 LU02910 LU05174 LU05261 LU05394 LU06592 LU06889 R093450 R096806 S003866 S004783 S006519 S008152 S008488 S009270 S010373 S014169 S016006 ST03866 ST04783 ST06519 ST08152 ST08488 ST09270 ST10373 ST14169 ST16006 TR93450 TR96806 YC90081) MCS LU06158 STARTS ON PAGE 0002 MCS LU06243 STARTS ON PAGE 0006 MCS LU06500 STARTS ON PAGE 0007 MCS LU06592 STARTS ON PAGE 0008 MCS LU06730 STARTS ON PAGE 0010 MCS LU06772 STARTS ON PAGE 0011 MCS LU06820 STARTS ON PAGE 0011 MCS LU06889 STARTS ON PAGE 0012 MCS LU06892 STARTS ON PAGE 0013 MCS LU06896 STARTS ON PAGE 0014	

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CA RS 2209 - PTF LU07058 Details

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	MCS	LU06923	STARTS ON PAGE 0015
	MCS	LU07058	STARTS ON PAGE 0016

Datacom DB Core 15.1
CA RS 2209 Product/Component Listing

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Product Family	Product	Release
Database Management	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 2209 Product/Component Count for this release is 7		

CA RS Level	Service	FMID
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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	SO15866	CAVEF10
	SO15862	CABDF10
	SO15827	CAVEF10
	SO15755	CAVEF10
	SO15728	CAVEF10
	SO15724	CAADF10
	SO15552	CABDF10
	SO15243	CABDF10
	SO15187	CABDF10
	SO15152	CABDF10
CAR2012	SO15651	CAADF10
	SO15527	CAVEF10
	SO15521	CABDF10
	SO15490	CAADF10
	SO15425	CAVEF10
	SO15342	CAVEF10
	SO15292	CABDF10
	SO14980	CABDF10

CA RS Level	Service	FMID
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
CAR2009	S014095	CABDF10
	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
CAR2008	S011882	CABDF10
	S014115	CABDF10
	S014070	CABDF10
	S014068	CAVEF10

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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