

Datacom/DB 15.1
CA RS 2204 Service List

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Service	Description	Type
LU01844	ENHANCEMENT: VALIDTION SITE TESTING MUF_BFR_POOL_AREA DST	PTF
LU04449	SOME VIEWS WITH GROUP BY AND NTES GIVE INCORRECT RESULTS	PTF
LU04537	DQBATCH EXPORT ABEND ON SQL QUERY WITH 'AS' CLAUSE	PTF
LU04558	ENHANCEMENT: NEW OPTION TO AVOID OVERFLOW WITH LARGE QUERIES	PTF
LU04772	ENHANCEMENT: BUFFER POOL BY AREA FOR INDEX AND DATA	PTF
LU04872	ABEND SOC4 IN MODULE DBMUFPR AT MUF EOJ	PTF
LU04920	DQBATCH WITH CHAR(0) IN SELECT-LIST SOC4 DQPPGPR+2D78	PTF
LU04979	REPORT TYPE=G FOR UPDATE AGAINST DST CAN ABEND MUF WITH SOC4	PTF
LU04994	ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS	PTF
LU05024	AUTO REBIND/RESTART STATIC PLANS FOR HASH MEMLIMIT	PTF
LU05134	MUF SOC4 IN DBIDXPR AT OR NEAR OFFSET 52AC DURING DEFRAG	PTF
LU05174	RETURN_CODE_88_DELAY CONFLICT WITH DBUTLTY IN SIMPLIFY MODE	PTF
LU05180	ENHANCEMENT: BLOCK-SIZE UPDATE FOR SAMPLE DATABASE	PTF
The CA RS 2204 service count for this release is 13		

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CA RS 2204 Service List for CABDF10

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FMID	Service	Description	Type
CABDF10	LU01844	ENHANCEMENT: VALIDTION SITE TESTING MUF_BFR_POOL_AREA DST	PTF
	LU04558	ENHANCEMENT: NEW OPTION TO AVOID OVERFLOW WITH LARGE QUERIES	PTF
	LU04772	ENHANCEMENT: BUFFER POOL BY AREA FOR INDEX AND DATA	PTF
	LU04872	ABEND SOC4 IN MODULE DBMUFPR AT MUF EOJ	PTF
	LU04979	REPORT TYPE=G FOR UPDATE AGAINST DST CAN ABEND MUF WITH SOC4	PTF
	LU04994	ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS	PTF
	LU05134	MUF SOC4 IN DBIDXPR AT OR NEAR OFFSET 52AC DURING DEFRAG	PTF
	LU05174	RETURN_CODE_88_DELAY CONFLICT WITH DBUTLTY IN SIMPLIFY MODE	PTF
	LU05180	ENHANCEMENT: BLOCK-SIZE UPDATE FOR SAMPLE DATABASE	PTF
The CA RS 2204 service count for this FMID is 9			

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CA RS 2204 Service List for CADQF10

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FMID	Service	Description	Type
CADQF10	LU04537	DQBATCH EXPORT ABEND ON SQL QUERY WITH 'AS' CLAUSE	PTF
	LU04920	DQBATCH WITH CHAR(0) IN SELECT-LIST SOC4 DQPPGPR+2D78	PTF
The CA RS 2204 service count for this FMID is 2			

Datacom/DB
CA RS 2204 Service List for CAVEF10

FMID	Service	Description	Type
CAVEF10	LU04449	SOME VIEWS WITH GROUP BY AND NTES GIVE INCORRECT RESULTS	PTF
	LU05024	AUTO REBIND/RESTART STATIC PLANS FOR HASH MEMLIMIT	PTF
The CA RS 2204 service count for this FMID is 2			

Service	Details																
LU01844	LU01844 M.C.S. ENTRIES = ++PTF (LU01844) ENHANCEMENT: VALIDTION SITE TESTING MUF_BFR_POOL_AREA DST ENHANCEMENT DESCRIPTION: This product enhancement delivers a BTG member which provides support for the new MUF_BFR_POOL_AREA Dynamic System Table. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 14018 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R00909-DCM151 DESC(ENHANCEMENT: VALIDTION SITE TESTING MUF_BFR_POOL_AREA DST). ++VER (Z038) FMID (CABDF10) PRE (LU03981) SUP (LT01844) ++HOLD (LU01844) SYSTEM FMID(CABDF10) REASON (ACTION) DATE (22073) COMMENT (<table border="1"> <tr> <td>DATAACOM/DB</td><td>Release 15.1</td></tr> </table> SEQUENCE After Apply <table border="1"> <tr> <td>PURPOSE</td><td>A new MUF_BFR_POOL_AREA Dynamic System Table is being added to provide information about Buffer Pool by Area usage.</td></tr> </table> <table border="1"> <tr> <td>USERS</td><td></td></tr> <tr> <td>AFFECTED</td><td>All users.</td></tr> </table> <table border="1"> <tr> <td>KNOWLEDGE</td><td></td></tr> <tr> <td>REQUIRED</td><td>Database Administration.</td></tr> </table> <table border="1"> <tr> <td>ACCESS</td><td></td></tr> <tr> <td>REQUIRED</td><td>Ability to run CXXMAINT and DDUPDATE.</td></tr> </table> ***** * STEPS TO PERFORM * ***** This solution requires: Running a DDUPDATE to catalog the new table definition using the DSTMPA downloaded member as input to the SYSIN. An example and details can be found in the "System Tables Reference" in the Datacom Core - 15.1 TechDocs space. Apply this SYSMOD using 'BYPASS(HOLDSYSTEM(ACTION))' . This process can be run at your convenience, as there is no requirement to have this new table definition unless it is actively	DATAACOM/DB	Release 15.1	PURPOSE	A new MUF_BFR_POOL_AREA Dynamic System Table is being added to provide information about Buffer Pool by Area usage.	USERS		AFFECTED	All users.	KNOWLEDGE		REQUIRED	Database Administration.	ACCESS		REQUIRED	Ability to run CXXMAINT and DDUPDATE.
DATAACOM/DB	Release 15.1																
PURPOSE	A new MUF_BFR_POOL_AREA Dynamic System Table is being added to provide information about Buffer Pool by Area usage.																
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ACCESS																	
REQUIRED	Ability to run CXXMAINT and DDUPDATE.																

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CA RS 2204 - PTF LU01844 Details

Service	Details
	being queried.).

Service	Details
LU04449	LU04449 M.C.S. ENTRIES = ++PTF (LU04449) SOME VIEWS WITH GROUP BY AND NTES GIVE INCORRECT RESULTS PROBLEM DESCRIPTION: Incorrect results returned under the following conditions: 1. A view is used that has a GROUP BY. 2. AND... The GROUP BY is satisfied by a key, so no sort is required. This solution also corrects an abend when: 1. A NTE (Nested Table Expression) is used. 2. AND... UNION or UNION ALL is used 3. OR... ORDER BY is used and it references more columns than the NTE has. Also, this APAR contains an enhancement to allow SELECT DISTINCT in an NTE (Nested Table Expression) when there is no GROUP BY. This is done by converting the SELECT DISTINCT to a GROUP BY, which is allowed in an NTE. SYMPTOMS: 1. Incorrect results are returned. For example, only the last grouped row may be returned. 2. MUF SOC4 ABEND in DBSRPPR module sortPrep+0024AC. IMPACT: 1. The query returns incorrect results. 2. MUF must be restarted. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATA COM SQL Release 15.1 Related Problem: SQL 15996 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R00986-DCM151 DESC(SOME VIEWS WITH GROUP BY AND NTES GIVE INCORRECT RESULTS). ++VER (Z038) FMID (CAVEF10) PRE (LU00985 LU01216 LU03281 LU03984 R090216 R090826 S001886 S007544 S008336 S008452 S011629 S012861 S014297 S014825) SUP (AR90216 AS05190 BS01886 LT02645 LT04449 LU02645 R089521 R092282 S000956 S005190 S006750 S015224 ST00956 ST05190 ST06750 ST08489 ST10151 ST10304 ST15224 TR89521 TR92282)

Service	Details
LU04537	LU04537 M.C.S. ENTRIES = ++PTF (LU04537) DQBATCH EXPORT ABEND ON SQL QUERY WITH 'AS' CLAUSE PROBLEM DESCRIPTION: DQBATCH EXPORT function fails with a SOC4 in module DQBSOPR if an SQL query is used that contains an AS clause which has a NULL column (two consecutive quotes) as the first operand. Example: SELECT COLA, '' AS COLUMN_X, COLB FROM TABLE_X; SYMPTOMS: The DQBATCH EXPORT function fails with a SOC4 abend in module DQBSOPR at offset x'000F72'. IMPACT: The SQL statement with the AS clause cannot be used in the DQBATCH EXPORT function if the first operand is a NULL column. CIRCUMVENTION: Include a space (blank) between the two quotes in the first operand of the AS clause. PRODUCT(S) AFFECTED: Dataquery for CA Datacom Release 15.1 Related Problem: DQ 15921 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R00991-DCM151 DESC(DQBATCH EXPORT ABEND ON SQL QUERY WITH 'AS' CLAUSE). ++VER (Z038) FMID (CADQF10) PRE (LU03983 R095386) SUP (LT04537)

Service	Details
LU04558	LU04558 M.C.S. ENTRIES = ++PTF (LU04558) ENHANCEMENT: NEW OPTION TO AVOID OVERFLOW WITH LARGE QUERIES This product enhancement delivers code which implements changes in the DB engine allowing for a new console-like option CBS_MIN_RQASIZE_ALT_MEM. This option can be used to eliminate instances of return code 91(111) (DBRW Overflow), if a very large RQA is passed by an SQL query for CBS processing in the database engine. PRODUCT(S) AFFECTED: DATAKOM/DB Release 15.1 Related Problem: DB 16067 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R00992-DCM151 DESC(ENHANCEMENT: NEW OPTION TO AVOID OVERFLOW WITH LARGE QUERIES). ++VER (Z038) FMID (CABDF10) PRE (LU02248 LU03981 LU04510 R092259 R095667 S010395 S011479 S015521) SUP (LT01636 LT03028 LT04558 LU01636 LU03028 R090197 R098142 R098800 S000922 S004938 S007141 S016096 ST00922 ST04938 ST07141 ST16096 TR90197 TR98142 TR98800) ++HOLD (LU04558) SYSTEM FMID(CABDF10) REASON (DOC) DATE (22063) COMMENT (<pre> +-----+ DATAKOM/DB Release 15.1 +-----+ ***** * PUBLICATION * ***** Documentation for the new CBS_MIN_RQASIZE_ALT_MEM console-like option 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) </pre>

Service	Details
LU04772	LU04772 M.C.S. ENTRIES = ++PTF (LU04772) ENHANCEMENT: BUFFER POOL BY AREA FOR INDEX AND DATA ENHANCEMENT DESCRIPTION: This product enhancement delivers code which provides the following changes to the Buffer Pool by Area feature: 1. A private buffer pool can now be used for a specific index area by specifying the new BUFFER_POOL_INDEX MUF startup option. 2. It increases the number of allowed BUFFER_POOL_DATA statements from 5 to 10. 3. Coding the area-name on the BUFFER_POOL_DATA startup option is now optional instead of required. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 15958 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01000-DCM151 DESC(ENHANCEMENT: BUFFER POOL BY AREA FOR INDEX AND DATA). ++VER (Z038) FMID (CABDF10) PRE (LU00071 LU00290 LU01266 LU01916 LU02338 LU02807 LU03183 LU03700 LU03981 LU04345 LU04668 R088469 R088530 R090276 R090486 R090903 R091015 R091632 R092259 R092858 R094095 R094280 R094783 R095667 R095915 R096260 R097626 R097818 R098683 R098926 R099532 R099738 R099997 S001215 S001597 S003799 S005129 S005964 S006365 S006748 S007233 S007900 S008500 S009683 S010082 S010748 S011951 S013162 S013716 S014079 S015187) SUP (AL00071 AS01215 AS08152 BC90081 LT00061 LT00172 LT01374 LT02134 LT02355 LT02910 LT04772 LU00061 LU00172 LU01374 LU02134 LU02910 R093450 R096806 S001230 S003866 S004783 S005492 S006519 S006676 S008152 S008488 S008697 S008775 S009270 S010373 S014115 S014169 S016006 ST01230 ST03866 ST04783 ST05492 ST06519 ST06676 ST08152 ST08488 ST08697 ST08775 ST09270 ST10373 ST14115 ST14169 ST16006 TR93450 TR96806 YC90081) ++HOLD (LU04772) SYSTEM FMID(CABDF10) REASON (DOC) DATE (22075) COMMENT (+-----+ DATAACOM/DB Release 15.1 +-----+ ***** * PUBLICATION * ***** Documentation for the Buffer Pool by Area 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/

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	database-management/ca-datacom/15-1/ release-notes-and-product-information/ca-datacom-features.html) .

Service	Details
LU04872	LU04872 M.C.S. ENTRIES = ++PTF (LU04872) ABEND SOC4 IN MODULE DBMUFPR AT MUF EOJ PROBLEM DESCRIPTION: The Datacom/DB Multi-User Facility (MUF) abends with code SOC4 in module DBMUFPR during MUF EOJ processing. This abend can occur when the undocumented obsolete MUF Startup option, "HEALTH_CHECKER YES" is specified. SYMPTOMS: MUF abends with a SOC4 in module DBMUFPR at or near offset X'751E'. IMPACT: The impact of the abend is minimal since it occurs after all databases have been closed, and since MUF processing was already ending due to the EOJ. CIRCUMVENTION: Remove the "HEALTH_CHECKER YES" option from the MUF Startup options. It provides no value. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 16296 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01001-DCM151 DESC (ABEND SOC4 IN MODULE DBMUFPR AT MUF EOJ). ++VER (Z038) FMID (CABDF10) PRE (LU01370 LU03981 R088469 R090486 R091015 R091404 R091632 R093647 R094095 R097526 R097757 R099997 S007190 S007900 S011247) SUP (AR97757 AS11247 LT04872 R096403 R099100 S011571 ST11571 TR96403 TR99100)

Service	Details
LU04920	LU04920 M.C.S. ENTRIES = ++PTF (LU04920) DQBATCH WITH CHAR(0) IN SELECT-LIST SOC4 DQPPGPR+2D78 PROBLEM DESCRIPTION: DQBATCH QUERY execution can fail with a SOC4 abend in module DQPPGPR if an SQL query is used that contains an AS clause where the first operand is a NULL column (two consecutive quotes) and the execution is running APF authorized. Example: SELECT EVENT, '' AS EMPTY, USER_TAG as EMPTY_VC, DBID, AREA FROM SYSADM.CADTCM_HISTORY_EVT; SYMPTOMS: The DQBATCH execution fails with a SOC4 abend in module DQPPGPR at offset x'00002D78'. IMPACT: The DQBATCH query can fail if the query has an SQL AS clause containing a NULL column and it is executed using APF authorized libraries. CIRCUMVENTION: Include a space (blank) between the two quotes in the first operand of the AS clause, or execute DQBATCH using libraries that are not APF authorized. PRODUCT(S) AFFECTED: Dataquery for CA Datacom Release 15.1 Related Problem: DQ 16357 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01002-DCM151 DESC(DQBATCH WITH CHAR(0) IN SELECT-LIST SOC4 DQPPGPR+2D78). ++VER (Z038) FMID (CADQF10) PRE (LU03983) SUP (LT04920)

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Service	Details
LU04979	LU04979 M.C.S. ENTRIES = ++PTF (LU04979) REPORT TYPE=G FOR UPDATE AGAINST DST CAN ABEND MUF WITH SOC4 PROBLEM DESCRIPTION: The Datacom/DB Multi-User Facility (MUF) sporadically abends with code SOC4 in module DBDS2PR when a DBUTLTY REPORT with TYPE=G and UPDATE=YES is executed against the Dynamic System Table (DST) base. The abend is not common. SYMPTOMS: MUF abends with a SOC4 in DBDS2PR. IMPACT: There is a MUF outage. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 16359 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01004-DCM151 DESC (REPORT TYPE=G FOR UPDATE AGAINST DST CAN ABEND MUF WITH SOC4) . ++VER (Z038) FMID (CABDF10) PRE (LU03981 R093251 S011244 S015152) SUP (LT04979)

Service	Details
LU04994	LU04994 M.C.S. ENTRIES = ++PTF (LU04994) ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code which will form the basis for future code changes. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 16308 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01005-DCM151 DESC (ENHANCEMENT: DELIVERS CODE AS BASIS FOR FUTURE ENHANCEMENTS). ++VER (Z038) FMID (CABDF10) PRE (LU00174 LU02418 LU03458 LU03981 LU04345 R088530 R090075 R090276 R090486 R091015 R091632 R092259 R092858 R093251 R094001 R095548 R095667 R097082 R097626 R097818 R099532 R099902 S001597 S003799 S006365 S006692 S007900 S008120 S009683 S014507 S015871) SUP (LT01545 LT04994 LU01545 S000035 S005278 S010571 S015186 ST00035 ST05278 ST10571 ST15186)

Service	Details
LU05024	LU05024 M.C.S. ENTRIES = ++PTF (LU05024) The following items are included in this solution: 1. SQLCODE -999 EXPR ALREADY LOCATED AFTER LU02878 2. SOC4 ABEND IN DBSRPPR TEXPSRV+007F AFTER LU02878 3. WRONG ROWS RETURNED WITH JOIN PREDICATE UNDER AN OR 4. AUTO REBIND/RESTART STATIC PLANS FOR HASH MEMLIMIT ===== SQLCODE -999 EXPR ALREADY LOCATED AFTER LU02878 PROBLEM DESCRIPTION: LU02878 delivered an enhancement to pass an IN list predicate to CBS in the RQA when it is a high-order restriction on an index. However, when there is an OR, this is not possible. So this solution causes the enhancement to not be used when there is an OR. SYMPTOMS: The request is rejected with SQLCODE -999 EXPR ALREADY RELOCATED. IMPACT: The query cannot be prepared. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM SQL Release 15.1 Related Problem: SQL 16080 ===== SOC4 ABEND IN DBSRPPR TEXPSRV+007F AFTER LU02878 PROBLEM DESCRIPTION: After apply LU02878, which introduced IN list optimization, MUF abnormally terminates when a query is prepared and executed under the following conditions: 1. An IN list that restricts the 1st column of a key is used. 2. This IN list predicate is in the ON clause of a LEFT JOIN. 3. This IN list references the inner table of the join. 4. There is another key for this table with a high-order restriction. 5. A HASH JOIN is used. Example: <pre>SELECT * FROM T1 LEFT JOIN T2 ON T1.COL2 = T2.COL2 <--- T2.COL2 is a key AND T2.COL1 IN ('A2', 'A4') <--- T2.COL1 is a key ;</pre> SYMPTOMS: MUF abends in DBSRPPR in module TEXPSRV at +007FD6. IMPACT: MUF must be restarted. CIRCUMVENTION: Replace the IN list with OR'd predicates. PRODUCT(S) AFFECTED: DATAACOM SQL Release 15.1 Related Problem: SQL 16309 ===== WRONG ROWS RETURNED WITH JOIN PREDICATE UNDER AN OR PROBLEM DESCRIPTION:

Service	Details
	Queries with a join return the wrong rows when: 1. A merge join is used. 2. The join condition is under an OR and the other side of the OR is a non-join condition. 3. The join condition has an operand that is an expression. Example: <pre>SELECT * FROM T16310 T1 INNER JOIN T16310 T2 ON T1.COL1 = T2.COL1 AND (T1.COL1 * 2 + T1.COL2 * 4 = T2.COL3 OR T2.COL2 = 9) ;</pre> In this case a merge join is used when a nested loop join should be used. And this causes the wrong rows to be returned. SYMPTOMS: The wrong rows are returned. IMPACT: The wrong rows are returned. CIRCUMVENTION: Add "AND DATACOM_OPTIMIZATION = 'USE NESTED-LOOP JOIN'" to force a nested-loop join. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 16379 ===== AUTO REBIND/RESTART STATIC PLANS FOR HASH MEMLIMIT ENHANCEMENT DESCRIPTION: When a query using hash tables exceeds a MEMLIMIT, it is rebound to not use hash tables and restarted. This enhancement implements this for static plans, and dynamic queries that are not in the Source Cache. PRODUCT(S) AFFECTED: DATACOM SQL Release 15.1 Related Problem: SQL 15487 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01007-DCM151 DESC(AUTO REBIND/RESTART STATIC PLANS FOR HASH MEMLIMIT). ++VER (Z038) FMID (CAVEF10) PRE (LU00087 LU00985 LU01216 LU01483 LU02239 LU02698 LU02878 LU02879 LU02898 LU03281 LU03984 R090216 R090826 R092064 R093613 R095978 R097225 S000890 S001886 S004034 S004197 S004243 S005935 S006238 S006402 S007544 S008017 S008336 S009551 S011192 S011326 S011629 S013173 S013526 S014105 S014578 S014825 S015755 S015827 S015889 S016078) SUP (AR90826 AR92064 AS01886 AS07544 AS14825 BR90826 CR90826 DC92212 EC92212 HC92212 LT00056 LT01153 LT01331 LT02647 LT03821 LT05024 LU00056 LU01153 LU01331 LU02647 LU04620 R088480 R089520 R093560 R093821 R095609 R096118 R098521 R099051 R099972 S000902 S001350 S004015 S004867 S004889 S004969 S005352 S006846 S007468 S009994 S011348 S014369 S015866 ST00902 ST01350 ST04015 ST04867 ST04889

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	ST04969	ST05352	ST06846	ST07468	ST09994	ST11348	ST14369
	ST15866	TR88231	TR88480	TR89520	TR90131	TR92901	TR93514
	TR93560	TR93821	TR95609	TR96118	TR98438	TR98521	TR99051
	TR99972	)					

Service	Details
LU05134	LU05134 M.C.S. ENTRIES = ++PTF (LU05134) MUF SOC4 IN DBIDXPR AT OR NEAR OFFSET 52AC DURING DEFRAG PROBLEM DESCRIPTION: The Datacom/DB Multi-User Facility (MUF) can abend with a SOC4 in module DBIDXPR while running a DBUTLTY DEFRAG function. This can occur when a DEFRAG is run for a DBID which uses long keys. Any key with a total key length greater than 180 bytes is considered a long key. Even when running a DEFRAG with long keys this abend is not common. SYMPTOMS: MUF abends with a SOC4 in module DBIDXPR at or near offset X'52AC'. IMPACT: There is a MUF outage. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 16514 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01010-DCM151 DESC(MUF SOC4 IN DBIDXPR AT OR NEAR OFFSET 52AC DURING DEFRAG). ++VER (Z038) FMID (CABDF10) PRE (LU00290 LU02807 LU03981 R090903 R092441 R095667 R097209 R097757 R098348 R098604 R099902 S000436 S001226 S004931 S006748 S009367 S010109 S011247 S011906 S011975 S012203 S014651) SUP (AL00112 AL01689 LT00112 LT00265 LT00692 LT02107 LT02221 LT03836 LT05134 LU00112 LU00265 LU00692 LU02107 LU02221 LU03836 R089559 S007320 S013370 ST07320 ST13370 TR89559)

Service	Details
LU05174	LU05174 M.C.S. ENTRIES = ++PTF (LU05174) RETURN_CODE_88_DELAY CONFLICT WITH DBUTLTY IN SIMPLIFY MODE PROBLEM DESCRIPTION: In SIMPLIFY mode and with RETURN_CODE_88_DELAY in effect, the following exclusive control conflict can occur: After a successful ACCESS STATUS=OFF and COMM OPTION=CLOSE for a DBID, a subsequent DBUTLTY LOAD (and possibly other DBUTLTY functions) accessing the same DBID can hang in WAIT E/C on resource DBSOPN, which is held by other applications trying to concurrently OPEN the same DBID. These application OPEN requests are correctly delayed in WAIT TASK DELAY status, waiting on the LOAD to finish and the ACCESS Status to be reset. Ultimately, this deadly embrace is resolved when the waiting applications have reached the specified RETURN_CODE_88_DELAY time causing the DBSOPN resource they hold to be freed. The problem is timing related, sporadic and rare. SYMPTOMS: Applications are hanging in WAIT TASK DELAY until the RETURN_CODE_88_DELAY time has been reached. The WAIT TASK DELAY is due to a DBUTLTY LOAD (or possibly other DBUTLTY functions) hanging in WAIT E/C for resource DBSOPN, which is held by the applications in WAIT TASK DELAY. IMPACT: The DBUTLTY LOAD (or other function) is delayed until the conflicting applications have reached the specified WAIT time. These applications time out with an RC 88 and need to be restarted. CIRCUMVENTION: Issue an REQABORT against the hung application OPEN(s), since they eventually will fail with a RC 88. PRODUCT(S) AFFECTED: DATAKOM/DB Release 15.1 Related Problem: DB 15984 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01012-DCM151 DESC(RETURN_CODE_88_DELAY CONFLICT WITH DBUTLTY IN SIMPLIFY MODE). ++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 LU00061 LU01374 LU02910 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																		
LU05180	LU05180 M.C.S. ENTRIES = ++PTF (LU05180) ENHANCEMENT: BLOCK-SIZE UPDATE FOR SAMPLE DATABASE ENHANCEMENT DESCRIPTION: This product enhancement delivers updates to the BTG member HRDEF to change the BLOCK-SIZE for the Human Resource Sample Database. This change allows this Sample Database to use VSAM Linear Datasets. PRODUCT(S) AFFECTED: DATAACOM/DB Release 15.1 Related Problem: DB 16566 (C) 2022 Broadcom Inc and/or its subsidiaries; All rights reserved R01013-DCM151 DESC(ENHANCEMENT: BLOCK-SIZE UPDATE FOR SAMPLE DATABASE). ++VER (Z038) FMID (CABDF10) PRE (LU03981) SUP (LT05180) ++HOLD (LU05180) SYSTEM FMID(CABDF10) REASON (ACTION) DATE (22089) COMMENT (<table border="1"> <tr> <td>DATAACOM/DB</td><td>Release 15.1</td></tr> <tr> <td>SEQUENCE</td><td>After Apply</td></tr> <tr> <td>PURPOSE</td><td>Catalog data area block size changes to the sample Human-Resource database.</td></tr> <tr> <td>USERS</td><td></td></tr> <tr> <td>AFFECTED</td><td>All users.</td></tr> <tr> <td>KNOWLEDGE</td><td></td></tr> <tr> <td>REQUIRED</td><td>Database Administration.</td></tr> <tr> <td>ACCESS</td><td></td></tr> <tr> <td>REQUIRED</td><td>Ability to run DBUTLTY and DDUPDATE.</td></tr> </table> ***** * STEPS TO PERFORM * ***** Each MUF instance subject to this PTF will need to be updated by the actions described below. Apply this SYSMOD using BYPASS(HOLDSYSTEM(ACTION)) . This process can be run at your convenience for any MUF, as there is no requirement to have this block size change with the exception of datasets initialized as VSAM Linear Datasets. The following examples presume the Human-Resource database is defined as DBID 1, which is standard.	DATAACOM/DB	Release 15.1	SEQUENCE	After Apply	PURPOSE	Catalog data area block size changes to the sample Human-Resource database.	USERS		AFFECTED	All users.	KNOWLEDGE		REQUIRED	Database Administration.	ACCESS		REQUIRED	Ability to run DBUTLTY and DDUPDATE.
DATAACOM/DB	Release 15.1																		
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KNOWLEDGE																			
REQUIRED	Database Administration.																		
ACCESS																			
REQUIRED	Ability to run DBUTLTY and DDUPDATE.																		

Service	Details																																							
	1. Run a DBUTLTY function with the following SYSIN to take the Human-Resource Database offline: <pre>ACCESS STATUS=UTLTY,DBID=001,USERS=WAIT COMM OPTON=CLOSE,DBID=001</pre> 2. Followed by a DDUPDATE using the new HRDEF member as part of the input to catalog the new definition. Example for SYSIN for DDUPATE: <pre>//SYSIN DD DSN=CAI.CHLQ.CUSPROC(USRACC),DISP=SHR // DD DSN=CAI.NEWHLQ.9CXX_NAME.CABDSAMP(HROBS),DISP=SHR // DD DSN=CAI.NEWHLQ.9CXX_NAME.CABDSAMP(HRBAS),DISP=SHR // DD DSN=CAI.NEWHLQ.9CXX_NAME.CABDSAMP(HRDEF),DISP=SHR // DD DSN=CAI.NEWHLQ.9CXX_NAME.CABDSAMP(HRDVW),DISP=SHR // DD DSN=CAI.NEWHLQ.9CXX_NAME.CABDSAMP(HRCPY),DISP=SHR // DD DSN=CAI.NEWHLQ.9CXX_NAME.CABDSAMP(HRDLT),DISP=SHR</pre> 3. Followed by a DBUTLTY LOAD of the database using the new definition. Example: <pre>//STEP03 EXEC PGM=DBUTLTY,REGION=OM // INCLUDE MEMBER=B15STLIB // INCLUDE MEMBER=B15DDCXX // INCLUDE MEMBER=B15DDOUT //DB001BK DD DSN=&&WORK,DISP=(NEW,PASS), // UNIT=SYSDA,SPACE=(CYL,(1,1)) //SYSIN DD * INIT AREA=IXX,DBID=001,OLDEP=NO INIT AREA=PAY,DBID=001 INIT AREA=PMF,DBID=001 INIT AREA=DEM,DBID=001 TESTDATA DDNAME=DB001BK LOAD DBID=001,SORT=999,FORMAT=BACKUP,DDNAME=DB001BK ACCESS STATUS=WRITE,DBID=001 /*</pre> 4. Now a DBUTLTY REPORT AREA=CXX can be run to show the areas in the database are now defined with the new block size 4096. SYSIN: <pre>REPORT AREA=CXX,DBID=001</pre> Fallback Instructions: No fallback is needed since a block size of 4096 should always be tolerated. <pre>)</pre> <table><tr><td>MCS</td><td>LU01844</td><td>STARTS ON PAGE 0002</td></tr><tr><td>MCS</td><td>LU04449</td><td>STARTS ON PAGE 0003</td></tr><tr><td>MCS</td><td>LU04537</td><td>STARTS ON PAGE 0004</td></tr><tr><td>MCS</td><td>LU04558</td><td>STARTS ON PAGE 0005</td></tr><tr><td>MCS</td><td>LU04772</td><td>STARTS ON PAGE 0006</td></tr><tr><td>MCS</td><td>LU04872</td><td>STARTS ON PAGE 0008</td></tr><tr><td>MCS</td><td>LU04920</td><td>STARTS ON PAGE 0009</td></tr><tr><td>MCS</td><td>LU04979</td><td>STARTS ON PAGE 0009</td></tr><tr><td>MCS</td><td>LU04994</td><td>STARTS ON PAGE 0010</td></tr><tr><td>MCS</td><td>LU05024</td><td>STARTS ON PAGE 0011</td></tr><tr><td>MCS</td><td>LU05134</td><td>STARTS ON PAGE 0015</td></tr><tr><td>MCS</td><td>LU05174</td><td>STARTS ON PAGE 0016</td></tr><tr><td>MCS</td><td>LU05180</td><td>STARTS ON PAGE 0017</td></tr></table>	MCS	LU01844	STARTS ON PAGE 0002	MCS	LU04449	STARTS ON PAGE 0003	MCS	LU04537	STARTS ON PAGE 0004	MCS	LU04558	STARTS ON PAGE 0005	MCS	LU04772	STARTS ON PAGE 0006	MCS	LU04872	STARTS ON PAGE 0008	MCS	LU04920	STARTS ON PAGE 0009	MCS	LU04979	STARTS ON PAGE 0009	MCS	LU04994	STARTS ON PAGE 0010	MCS	LU05024	STARTS ON PAGE 0011	MCS	LU05134	STARTS ON PAGE 0015	MCS	LU05174	STARTS ON PAGE 0016	MCS	LU05180	STARTS ON PAGE 0017
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Datacom/DB 15.1
CA RS 2204 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 2204 Product/Component Count for this release is 7		

Datacom/DB 15.1
All CA RS Levels Service List

CA RS Level	Service	FMID
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
	LU03183	CABDF10

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All CA RS Levels Service List

CA RS Level	Service	FMID
	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
	LU01677	CABDF10

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All CA RS Levels Service List

CA RS Level	Service	FMID
	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
	LU00290	CABDF10

CA RS Level	Service	FMID
CAR2103	S016049	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	S016096	CABDF10
	S016086	CABDF10
	S016084	CAADF10
	S016078	CAVEF10
	S016052	CABDF10
	S016004	CABDF10
	S015871	CABDF10
	LU00071	CABDF10
	LU00061	CABDF10
	LU00053	CABDF10
CAR2101	S016036	CABDF10
	S016006	CABDF10
	S015947	CABDF10
	S015912	CABDF10
	S015889	CAVEF10
	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

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All CA RS Levels Service List

CA RS Level	Service	FMID
	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
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

CA RS Level	Service	FMID
	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
	S012497	CAVEF10

CA RS Level	Service	FMID
	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
	S010519	CABDF10

CA RS Level	Service	FMID
	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
	S008926	CABDF10

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All CA RS Levels Service List

CA RS Level	Service	FMID
	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
	S007219	CABDF10

CA RS Level	Service	FMID
	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
	S005935	CAVEF10

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CA RS Level	Service	FMID
	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
	S004526	CABDF11

CA RS Level	Service	FMID
	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
	S000167	CABDF10

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CA RS Level	Service	FMID
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
	R098879	CABDF10

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CA RS Level	Service	FMID
	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
	R097343	CABDF10

CA RS Level	Service	FMID
	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
	R095719	CABDF10

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CA RS Level	Service	FMID
	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
	R093373	CAADF10

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CA RS Level	Service	FMID
	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
	R091165	CABDF10

CA RS Level	Service	FMID
	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