

CA Datacom/DB 15.1
CA RS 1911 Service List

1

Service	Description	Type
S009190	FIXES TO DBSQLPR	PTF
S009437	SQLCODE -20 SYNTAX ERROR USING SUBQUERY IN ON CLAUSE	PTF
S009683	ENHANCEMENT: MUF STARTUP OPTIONS CHANGES	PTF
S009994	INVALID RESULT WITH CORRELATED SUBQUERY	** PRP **
S010082	S0C4 IN RESTART, DATA CORRUPTION IF BA24 ACTIVE IN LAST MUF	**HIPER**
S010095	ABENDS IN MUF STARTUP IF S006748 IS APPLIED WITHOUT S006692	PTF
S010261	URI REUSE ISSUES	*HIP/PRP*
S010328	SUBSTRING_INDEX SCALAR FUNCTION	PTF
S010335	ENHANCEMENT: SUBTRACT TIMESTAMP SCALAR FUNCTION	PTF
S010373	MESSAGE DB00501E DISPLAYS WRONG AREA NAME FOR RETIX	PTF
S010380	INCORRECT RESULT FROM COALESCE	PTF
S010395	ENHANCEMENT: IMPROVED INTERNAL STATS FOR SQL PHYSICAL READS	PTF
S010416	POSSIBLE RC 94(46) DURING OLREORG AFTER TA24	PTF
S010462	CATALOG UPDATE CAN FAIL WITH RC 28 (EXCESS LOG RECORD SIZE)	PTF
S010466	SQL ALTER VARCHAR DEFAULT SHOWS WRONG DATA ON DD	PTF
S010467	ENHANCEMENT TO ALLOW DATE/TIME DURATIONS TO USE SOURCE CACHE	PTF
S010519	BASE RETIX CAN FAIL IF TABLE IN HISTORY STATUS	PTF
S010523	RC05(34) CAUSED BY NTF ON -UPG	PTF
S010617	RECOVERY PROBLEMS IF LXX INIT OR EXTEND EXCEEDS MAX TRACKS	PTF

The CA RS 1911 service count for this release is 19

CA Datacom/DB
CA RS 1911 Service List for CAADF10

FMID	Service	Description	Type
CAADF10	S010462	CATALOG UPDATE CAN FAIL WITH RC 28 (EXCESS LOG RECORD SIZE)	PTF
	S010466	SQL ALTER VARCHAR DEFAULT SHOWS WRONG DATA ON DD	PTF
	S010523	RC05(34) CAUSED BY NTF ON -UPG	PTF
The CA RS 1911 service count for this FMID is 3			

CA Datacom/DB
CA RS 1911 Service List for CABDF10

3

FMID	Service	Description	Type
CABDF10	S009683	ENHANCEMENT: MUF STARTUP OPTIONS CHANGES	PTF
	S010082	S0C4 IN RESTART, DATA CORRUPTION IF BA24 ACTIVE IN LAST MUF	**HIPER**
	S010095	ABENDS IN MUF STARTUP IF S006748 IS APPLIED WITHOUT S006692	PTF
	S010261	URI REUSE ISSUES	*HIP/PRP*
	S010373	MESSAGE DB00501E DISPLAYS WRONG AREA NAME FOR RETIX	PTF
	S010395	ENHANCEMENT: IMPROVED INTERNAL STATS FOR SQL PHYSICAL READS	PTF
	S010416	POSSIBLE RC 94(46) DURING OLREORG AFTER TA24	PTF
	S010519	BASE RETIX CAN FAIL IF TABLE IN HISTORY STATUS	PTF
	S010617	RECOVERY PROBLEMS IF LXX INIT OR EXTEND EXCEEDS MAX TRACKS	PTF
The CA RS 1911 service count for this FMID is 9			

CA Datacom/DB
CA RS 1911 Service List for CAVEF10

4

FMID	Service	Description	Type
CAVEF10	S009190	FIXES TO DBSQLPR	PTF
	S009437	SQLCODE -20 SYNTAX ERROR USING SUBQUERY IN ON CLAUSE	PTF
	S009994	INVALID RESULT WITH CORRELATED SUBQUERY	** PRP **
	S010328	SUBSTRING_INDEX SCALAR FUNCTION	PTF
	S010335	ENHANCEMENT: SUBTRACT TIMESTAMP SCALAR FUNCTION	PTF
	S010380	INCORRECT RESULT FROM COALESCE	PTF
	S010467	ENHANCEMENT TO ALLOW DATE/TIME DURATIONS TO USE SOURCE CACHE	PTF
The CA RS 1911 service count for this FMID is 7			

Service	Details
SO09190	SO09190 M.C.S. ENTRIES = ++PTF (SO09190) The following items are included in this solution: 1. FIXES TO DBSQLPR 2. DBSQLPR S0C4 WITH LARGE OUTPUT REQUESTED ===== FIXES TO DBSQLPR PROBLEM DESCRIPTION: 1. DBSQLPR receives a 2020 warning because the page header output is too long, and this prevents the row data and column header information from being suppressed. 2. The page header output is 121 characters long and is not adjusted when the PRTWIDTH specified is less than that value (minimum allowed is 80). This will cause the 2020 truncation message. 3. A leading blank was added in a previous release, that has caused problems for some customers, as well as adding a blank to the output data, which is not allowed under the comma-separated values (CSV) standard. 4. Using option SQUISH can sometimes cause column data to be missing in the output. 5. When SQUISH rows are longer than PRTWIDTH, warning 2007 was issued for each row. Now, warning 2007 is issued only for the first row, and new error message -2021 appears at the end of the report giving the PRTWIDTH needed to print the longest squished row, and the number of rows that were not printed because they exceeded PRTWIDTH. Example: UNABLE TO PRINT TABULAR FORMAT OUTPUT: PRTWIDTH SPEC. 133 EXCEEDED... ---Other rows that are not too long here --- USE PRTWIDTH 204 TO PRINT 1 ROWS THAT ARE TOO LONG. SYMPTOMS: 1. The row data is not produced when a 2020 is issued for the page headers. 2. When PRTWIDTH < 122, the page headers output is too long for the specified PRTWIDTH, and it will cause a 2020 message. 3. Every line in the output has a blank in the first column. 4. Expected column data is missing from the output. 5. Many RC 2007 warnings issued and no way to know what PRTWIDTH value allows all rows to be printed. IMPACT: 1-4. The data may not be displayed. 5. There is no way to know what PRTWIDTH allows all rows to be printed. CIRCUMVENTION: 1. Specify NOPAGEHDR, NOPAGES or NOECHO to suppress the page headers. Or, specify PRTWIDTH of 122 or greater. 2. Same as number 1. 3. None. 4. Do not specify the SQUISH option. 5. Set PRTWIDTH to a high value. PRODUCT(S) AFFECTED: CA Datacom SQL Version 15.0 CA Datacom SQL Release 15.1 Related Problem: SQL 2165 ===== DBSQLPR S0C4 WITH LARGE OUTPUT REQUESTED PROBLEM DESCRIPTION: 1) When DBSQLPR runs and the output is greater than 1500 characters, it can overrun the output buffer, causing a S0C4 abend. 2) When NOCOLHDR and NOTYPE are specified along with DATASEPARATOR, and a column name is longer than the length of the data, the data will be output using the space for the column name, rather than the shorter length of the data itself. SYMPTOMS: 1) The program, DBSQLPR, abends with a S0C4. 2) There will be more space used in the output than is needed for the data.

Service	Details										
	IMPACT: 1) The program ends with an abend, so no data is returned. 2) The output is not as compact as it could be. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: <table><tr><td>CA Datacom SQL</td><td>Version 14.0</td></tr><tr><td>CA Datacom SQL</td><td>Version 15.0</td></tr><tr><td>CA Datacom SQL</td><td>Version 15.1</td></tr></table> Related Problem: SQL 2031 Copyright (C) 2019 CA. All rights reserved. R00585-DCM151-SP1 DESC(FIXES TO DBSQLPR). ++VER (Z038) FMID (CAVEF10) SUP (CC92212 R097236 R099969 S007461 ST01846 ST04929 ST07461 ST07727 ST09190 TR90841 TR97236 TR99969) ++HOLD (S009190) SYSTEM FMID(CAVEF10) REASON (DOC) DATE (19289) COMMENT (+-----+ <table><tr><td> </td><td>CA Datacom SQL</td><td>Release 15.1</td><td> </td></tr></table> +-----+ ***** * PUBLICATION * ***** See the following pages for documentation changes: 1. New error message https://techdocs.broadcom.com/pages/viewpage.action?pageId=544494627 2. Various updates to DBSQLPR documentation https://techdocs.broadcom.com/pages/viewpage.action?pageId=291766279 3. Varius updates to using DBSQLPR with AUTOCOLLECT https://techdocs.broadcom.com/display/DATACOM/DBSQLPR+Delimiter+Separated+Values+Output).	CA Datacom SQL	Version 14.0	CA Datacom SQL	Version 15.0	CA Datacom SQL	Version 15.1		CA Datacom SQL	Release 15.1	
CA Datacom SQL	Version 14.0										
CA Datacom SQL	Version 15.0										
CA Datacom SQL	Version 15.1										
	CA Datacom SQL	Release 15.1									

CA Datacom/DB 15.1
CA RS 1911 - PTF SO09437 Details

7

Service	Details
S009437	S009437 M.C.S. ENTRIES = ++PTF (S009437) SQLCODE -20 SYNTAX ERROR USING SUBQUERY IN ON CLAUSE PROBLEM DESCRIPTION: A query using a subquery in the ON clause cannot be prepared. This feature was removed in release 15.1, and is being re-instated. SYMPTOMS: The prepare is rejected with SQLCODE -20 syntax error. IMPACT: The query cannot be prepared. CIRCUMVENTION: If the join is an inner join, move the subquery to the WHERE clause. If the join is a LEFT JOIN, then add a UNION ALL to include non-matching rows. PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 2180 Copyright (C) 2019 CA. All rights reserved. R00595-DCM151-SP1 DESC(SQLCODE -20 SYNTAX ERROR USING SUBQUERY IN ON CLAUSE). ++VER (Z038) FMID (CAVEF10) PRE (R090216 R090826 S001886 S005243 S005343 S006396 S006402 S007544 S008452) SUP (R094696 S004927 S006387 ST04927 ST05998 ST06383 ST06387 ST09437 TR94696)

CA Datacom/DB 15.1
CA RS 1911 - PTF SO09683 Details

8

Service	Details		
S009683	S009683 M.C.S. ENTRIES = ++PTF (S009683) ENHANCEMENT: MUF STARTUP OPTIONS CHANGES ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code which includes the the following changes: 1. Some existing, obsolete CA Datacom/DB Multi-User Facility (MUF) startup options will now be ignored. In these cases the desired behavior will be forced by MUF. 2. Some defaults for MUF options which are not coded have been modernized. 3. A few of MUF's internal behaviors have been changed regardless of the option selected. In such cases the desired behavior will be forced by MUF. 4. A few options will now be forced from one setting to another, especially in cases where the old behavior is less than optimal or inferior. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 5570 Copyright (C) 2019 CA. All rights reserved. R00612-DCM151-SP1 DESC(ENHANCEMENT: MUF STARTUP OPTIONS CHANGES). ++VER (Z038) FMID (CABDF10) PRE (R088469 R088530 R088863 R090075 R090276 R090486 R090903 R091015 R091632 R092259 R092858 R093251 R093647 R094001 R094095 R094783 R095548 R095667 R095915 R096260 R096447 R096769 R097082 R097818 R099532 R099738 R099902 R099997 S000007 S001184 S001597 S003799 S004565 S005129 S005708 S005964 S006365 S006692 S006748 S007519 S007900 S008120 S008500 S008622) SUP (R095600 R096617 R097626 R097674 R098086 S000035 S001230 S001804 S005206 S005278 S005383 S005492 S006551 S006676 S006945 S007425 S008444 S008697 S008775 ST00035 ST01230 ST01804 ST03768 ST05206 ST05278 ST05383 ST05492 ST06551 ST06676 ST06945 ST07329 ST07425 ST08444 ST08697 ST08775 ST09683 TR95600 TR96617 TR97626 TR97674 TR98086) ++HOLD (S009683) SYSTEM FMID(CABDF10) REASON (DOC) DATE (19295) COMMENT (+-----+ <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> CA Datacom/DB</td> <td style="width: 50%; text-align: right;">Release 15.1 </td> </tr> </table> +-----+ ***** * PUBLICATION * ***** Documentation for the MUF option 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: http://techdocs.broadcom.com/content/broadcom/techdocs/us/en/ca-mainframe-software/database-management/ca-datacom/15-1/release-notes-and-product-information/ca-datacom-features/15_1-New-and-Enhanced-Features-September-17---October-21,-2019.html).	CA Datacom/DB	Release 15.1
CA Datacom/DB	Release 15.1		

CA Datacom/DB 15.1
CA RS 1911 - PTF SO09994 Details

9

Service	Details
S009994	S009994 M.C.S. ENTRIES = ++PTF (S009994) INVALID RESULT WITH CORRELATED SUBQUERY PROBLEM DESCRIPTION: A correlated, non-quantified subquery with datatype conversion is being treated as non-correlated and using the subquery result to restrict the referenced table before the subquery is executed to supply a value. This problem began with PTF S007544. Example: <pre>-- COL1 datatypes require conversion -- SELECT COL1 FROM T1 WHERE COL1 = (SELECT MAX(COL1) FROM T2 WHERE T2.COL1 = T1.COL1);</pre> SYMPTOMS: The query may return incorrect rows or be rejected with SQLCODE -161. IMPACT: The query may not execute or return the wrong rows. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Datacom SQL Release 15.1 Related Problem: SQL 2186 Copyright (C) 2019 CA. All rights reserved. R00618-DCM151-SP1 DESC(INVALID RESULT WITH CORRELATED SUBQUERY). ++VER (Z038) FMID (CAVEF10) PRE (R090826 R093613 S007544) SUP (AS07544 ST09994)

CA Datacom/DB 15.1
CA RS 1911 - PTF SO10082 Details

10

Service	Details
S010082	S010082 M.C.S. ENTRIES = ++PTF (S010082) S0C4 IN RESTART, DATA CORRUPTION IF BA24 ACTIVE IN LAST MUF PROBLEM DESCRIPTION: When the CA Datacom Multi-User Facility (MUF) re-processes requests during RESTART after an abnormal end of the previous MUF, it is possible, under very rare circumstances, that data in memory are overlaid in different ways. The problem can only occur if a Blocksize Alter 24X7 (BA24) process for a COVERED area was active at the time of the MUF abend. The problem is rare, even under these circumstances, and has only occurred once during very heavy in-house stress testing. As with most memory overlay problems, the symptoms are unpredictable. They include, but are not limited to, a S0C4 abend of the MUF and possibly compromised data integrity. SYMPTOMS: The memory overlay can cause various, unpredictable symptoms. In the one observed occurrence, the MUF abended with a S0C4. Other abends as well as data integrity problems are possible. IMPACT: A MUF outage as well as compromised data integrity are possible. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 5594 Copyright (C) 2019 CA. All rights reserved. R00619-DCM151-SP1 DESC(S0C4 IN RESTART, DATA CORRUPTION IF BA24 ACTIVE IN LAST MUF). ++VER (Z038) FMID (CABDF10) PRE (R088469 R088530 R088863 R090903 R091015 R091632 R092259 R093647 R094095 R094280 R094783 R095667 R096133 R096447 R097382 R098364 R098683 R098926 R099675 R099738 R099997 S000074 S001184 S001215 S007233 S008120) SUP (AR90903 AS01215 AS08152 BC90081 BR96447 KC90081 R091141 R093450 R096806 R097729 R097972 R098393 R098593 R098737 R098973 S003866 S004096 S004783 S006519 S007055 S007786 S008152 S008488 S009270 S009543 S009682 ST03866 ST04096 ST04783 ST06519 ST07055 ST07786 ST08152 ST08488 ST09270 ST09543 ST09682 ST10082 TR91140 TR91141 TR93450 TR96806 TR97729 TR97972 TR98393 TR98593 TR98737 TR98973)

Service	Details
S010095	S010095 M.C.S. ENTRIES = ++PTF (S010095) ABENDS IN MUF STARTUP IF S006748 IS APPLIED WITHOUT S006692 PROBLEM DESCRIPTION: The CA Datacom Multi-User Facility (MUF) can encounter various random abends during startup or soon after, if PTF S006748 is applied without PTF S006692. A packaging error caused PTF S006748 to be published without the necessary pre-requisite PTF S006692. Maintenance based on CARS levels is not exposed, because either both or none of the above PTFs is included. Similarly, if maintenance is relatively current, the problem does not occur, because both solutions have been published a while ago. SYMPTOMS: Various random abends during MUF startup or soon after. IMPACT: The MUF does not enable successfully. CIRCUMVENTION: Applying PTF S006692 and restarting the MUF provides a circumvention. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 5599 Copyright (C) 2019 CA. All rights reserved. R00620-DCM151-SP1 DESC(ABENDS IN MUF STARTUP IF S006748 IS APPLIED WITHOUT S006692). ++VER (Z038) FMID (CABDF10) PRE (R088469 R090903 R091632 R092858 R093251 R093647 R094095 R096300 R096499 S003879 S006692 S006748) SUP (R097743 ST10095 TR97743)

Service	Details
S010261	S010261 M.C.S. ENTRIES = ++PTF (S010261) URI REUSE ISSUES PROBLEM DESCRIPTION: The following problems can occur when using the URI Reuse feature: 1A) A "URI REUSE SCAN" may not find any available URI's even though it should. This can occur if one or more available URI's were indexed for this data area by a prior scan. 1B) The URI Reuse feature may not work correctly when a single database contains multiple areas and two or more of these areas have the URI-REUSE attribute set to Y. As rows are deleted, each data area's newly available URI's are saved in the index in alphabetical order by area name. Any area in a database which is subject to URI-REUSE and whose name is not the highest in alphabetical order, may erroneously reuse available URI's from other areas in the base. It is also possible that URI's available to an area with an alphabetically lower name are not always reflected as available in the URI REUSE index. 2) The CA Datacom Multi-User Facility (MUF) may abend in module DBUPDPR while doing a "URI REUSE SCAN". This can occur if the highest possible 1024 URI's are in use. SYMPTOMS: 1) The URI Reuse feature does not work correctly. 2) MUF abends with a S0C4 in module DBUPDPR at or near offset X'46D0'. IMPACT: 1) The URI Reuse feature does not consistently work in all cases. 2) There is a MUF outage. The "URI REUSE SCAN" cannot be run for the affected data area. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 5602 Copyright (C) 2019 CA. All rights reserved. R00625-DCM151-SP1 DESC(URI REUSE ISSUES). ++VER (Z038) FMID (CABDF10) PRE (R088469 R088863 R090075 R090903 R091632 R092259 R093647 R094095 R096133 R096852 R097818 R098364 S008300 S008500 S008926 S009648 S010082) SUP (SC90081 S003985 S007008 ST03985 ST07008 ST10261)

Service	Details
S010328	S010328 M.C.S. ENTRIES = ++PTF (S010328) SUBSTRING_INDEX SCALAR FUNCTION ENHANCEMENT DESCRIPTION: This enhancement adds the SUBSTRING_INDEX scalar function, which returns a substring of a string before a specified number of occurrences of a delimiter, which must be CHAR or VARCHAR, has been found. If the occurrence is negative, the function starts at the end of the string. The generic format of the SUBSTRING_INDEX scalar function is: SUBSTRING_INDEX(source-string, delimiter, occurrence) Example: SUBSTRING_INDEX('www.broadcom.com', '.', 2) Resulting substring is 'www.broadcom' PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 2170 Copyright (C) 2019 CA. All rights reserved. R00627-DCM151-SP1 DESC(SUBSTRING_INDEX SCALAR FUNCTION). ++VER (Z038) FMID (CAVEF10) PRE (R090155 R090826 S001886 S004243 S005935 S006440 S006473 S007544 S008452 S008801 S009437) SUP (AS06174 R089842 R091930 R094696 R097131 R099964 S004003 S004927 S005243 S005343 S006174 S006396 S006999 ST04003 ST04927 ST05209 ST05243 ST05343 ST06044 ST06174 ST06396 ST06999 ST09522 ST09801 ST10328 TR89842 TR91930 TR94696 TR97131 TR99964) ++HOLD (S010328) SYSTEM FMID(CAVEF10) REASON (DOC) DATE (19281) COMMENT (+-----+ CA Datacom SQL Release 15.1 +-----+ ***** * PUBLICATION * ***** Information on the SUBSTRING_INDEX function can be found in the Character Function section of the Scalar Functions page on the Datacom Core 15.1 Tech Docs: http://techdocs.broadcom.com/content/broadcom/techdocs/us/en/ ca-mainframe-software/database-management/ca-datacom/15-1/reference/ sql-reference/sql-functions/scalar-functions.html).

Service	Details
S010335	S010335 M.C.S. ENTRIES = ++PTF (S010335) ENHANCEMENT: SUBTRACT TIMESTAMP SCALAR FUNCTION ENHANCEMENT DESCRIPTION: This enhancement adds the TIMESTAMPDIF scalar function, which returns the difference between two datetime values. The result will be in the unit of time that is specified. Example: TIMESTAMPDIF(DAY, '1989-04-21-00.00.00.000000', '2019-07-04') Resulting days: 11031 PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 2179 Copyright (C) 2019 CA. All rights reserved. R00628-DCM151-SP1 DESC(ENHANCEMENT: SUBTRACT TIMESTAMP SCALAR FUNCTION). ++VER (Z038) FMID (CAVEF10) PRE (R090155 R090826 R097131 S001886 S004243 S005243 S005343 S005935 S006396 S006440 S006473 S007544 S008452 S008801 S009437 S010328) SUP (AR90044 AS06174 R090044 R091930 R094696 R099964 S004927 S006174 S006412 S006999 ST04927 ST06174 ST06412 ST06999 ST09524 ST10244 ST10335 TR89785 TR90044 TR91930 TR94696 TR99964) ++IF FMID(CABDF10) REQ(S009464) . ++HOLD (S010335) SYSTEM FMID(CAVEF10) REASON (DOC) DATE (19283) COMMENT (+-----+ CA Datacom SQL Release 15.1 +-----+ ***** * PUBLICATION * ***** INFORMATION ON THE TIMESTAMPDIF FUNCTION CAN BE FOUND IN THE SCALAR FUNCTIONS PAGE ON THE DATACOM CORE 15.1 DOCOPS: http://techdocs.broadcom.com/content/broadcom/techdocs/us/en/ ca-mainframe-software/database-management/ca-datacom/15-1/reference/ sql-reference/sql-functions/scalar-functions.html) .

Service	Details
S010373	S010373 M.C.S. ENTRIES = ++PTF (S010373) MESSAGE DB00501E DISPLAYS WRONG AREA NAME FOR RETIX PROBLEM DESCRIPTION: A DBUTLTY RETIX with an invalid AREA name produces OPEN error RC 94(157) and messages: DB13001E - UNEXPECTED RETURN CODE 94 (157) INVALID AREA NAME DB00501E - OPEN ERROR - RETURN CODE 94 (157) CXX=xxxxxxx (IXXnnnnn) where xxxxxxxx denotes the name of the CXX, nnnnn denotes the base id and IXX incorrectly represents the name of the AREA that is invalid. SYMPTOMS: Message DB00501E fails to correctly display the name of the AREA that is invalid, when OPEN error 94(157) has been encountered. IMPACT: The AREA name in message DB00501E after OPEN error 94(157) is misleading. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Version 15.0 CA Datacom/DB Release 15.1 Related Problem: DB 5600 Copyright (C) 2019 CA. All rights reserved. R00629-DCM151-SP1 DESC(MESSAGE DB00501E DISPLAYS WRONG AREA NAME FOR RETIX). ++VER (Z038) FMID (CABDF10) PRE (R088530 R090903 R091015 R091632 R092259 R094280 R094783 R095667 R098683 R098926 R099738 R099997 S001215 S007233 S010082) SUP (AS01215 AS08152 BC90081 R093450 R096806 S003866 S004783 S006519 S008152 S008488 S009270 ST03866 ST04783 ST06519 ST08152 ST08488 ST09270 ST10373 TR93450 TR96806)

Service	Details						
S010380	S010380 M.C.S. ENTRIES = ++PTF (S010380) INCORRECT RESULT FROM COALESCE PROBLEM DESCRIPTION: When using a COALESCE with two DECIMAL fields scale is defined differently, the fields are not properly cast. Example: Given COL42 = 12.34 COALESCE(COL42,COL94) would return 0.1234 instead of 12.3400. SYMPTOMS: The result of the COALESCE is not properly formatted. IMPACT: The result of the COALESCE is incorrect. CIRCUMVENTION: Cast the smaller scale DECIMAL to the target scale. PRODUCT(S) AFFECTED: <table> <tr> <td>CA Datacom SQL</td><td>Release 14.0</td></tr> <tr> <td>CA Datacom SQL</td><td>Release 15.0</td></tr> <tr> <td>CA Datacom SQL</td><td>Release 15.1</td></tr> </table> Related Problem: SQL 2182 Copyright (C) 2019 CA. All rights reserved. R00630-DCM151-SP1 DESC(INCORRECT RESULT FROM COALESCE). ++VER (Z038) FMID (CAVEF10) PRE (R097131 S001886 S005243 S005343 S006396 S007544 S010328) SUP (R089842 S004003 ST04003 ST09801 ST10380 TR89842)	CA Datacom SQL	Release 14.0	CA Datacom SQL	Release 15.0	CA Datacom SQL	Release 15.1
CA Datacom SQL	Release 14.0						
CA Datacom SQL	Release 15.0						
CA Datacom SQL	Release 15.1						

CA Datacom/DB 15.1
CA RS 1911 - PTF SO10395 Details

17

Service	Details
S010395	S010395 M.C.S. ENTRIES = ++PTF (S010395) ENHANCEMENT: IMPROVED INTERNAL STATS FOR SQL PHYSICAL READS ENHANCEMENT DESCRIPTION: This product enhancement delivers updated code which enhances the internal statistics CBS returns to SQL when a data area scan is performed in physical sequence without using the index. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 CA Datacom SQL Release 15.1 Related Problem: DB 5603 Copyright (C) 2019 CA. All rights reserved. R00631-DCM151-SP1 DESC(ENHANCEMENT: IMPROVED INTERNAL STATS FOR SQL PHYSICAL READS). ++VER (Z038) FMID (CABDF10) PRE (R088863 R090075 R090903 R091015 R091632 R092259 R093647 R094095 R095667 R099532 S004057 S009648) SUP (HC90081 R090197 R092600 R096370 R098142 R098800 S000922 S004538 S004938 S004997 S005404 S007141 S007166 ST00922 ST04538 ST04938 ST04997 ST05404 ST07141 ST07166 ST10395 TR90197 TR92600 TR96370 TR98142 TR98800)

Service	Details
S010416	S010416 M.C.S. ENTRIES = ++PTF (S010416) POSSIBLE RC 94(46) DURING OLREORG AFTER TA24 PROBLEM DESCRIPTION: A DBUTLTY OLREORG can fail with RC 94(046) (ALTER TABLE 24X7 NOT OTHER RC), if the specified table was subject to a Table Alter 24X7 (TA24) previously. The problem occurs after the related index data set encountered a successful Dynamic Extend. SYMPTOMS: OLREORG fails with RC 94(046). IMPACT: DBUTLTY OLREORG cannot be run successfully. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Related Problem: DB 5604 Copyright (C) 2019 CA. All rights reserved. R00632-DCM151-SP1 DESC(POSSIBLE RC 94(46) DURING OLREORG AFTER TA24). ++VER (Z038) FMID (CABDF10) PRE (R088530 R090903 R091404 R091648 R092259 R092858 R094095 R096440 R098604 S003827 S003941 S006692 S007233) SUP (R093092 S001888 ST01888 ST10416 TR93092)

Release 15.1

Service	Details
S010462	S010462 M.C.S. ENTRIES = ++PTF (S010462) CATALOG UPDATE CAN FAIL WITH RC 28 (EXCESS LOG RECORD SIZE) PROBLEM DESCRIPTION: During an update of a catalog structure, DataDictionary can attempt to write LOG records that are too large for the LOG file. The update fails with RC 28(057) (RCD.TOO BIG/LOG BLK.TOO SMALL or LOG AREA BLOCK SIZE TOO SMALL). SYMPTOMS: The update fails with RC 28(057) and the following messages are displayed: **** ERROR **** DB RETURN CODE = 28 (057) LOG RECORD TOO LARGE FOR LOG BLOCK DB RETURN COMMAND = LOGDW IMPACT: The update of the catalog structure is not successful. CIRCUMVENTION: Some updates can be broken up so that less data need to be logged. PRODUCT(S) AFFECTED: CA Datacom Datadictionary Release 15.1 Related Problem: DD 2201 Copyright (C) 2019 CA. All rights reserved. R00635-DCM151-SP1 DESC(CATALOG UPDATE CAN FAIL WITH RC 28 (EXCESS LOG RECORD SIZE)). ++VER (Z038) FMID (CAADF10) PRE (S007572 S009919) SUP (ST10462)

Service	Details
S010466	S010466 M.C.S. ENTRIES = ++PTF (S010466) SQL ALTER VARCHAR DEFAULT SHOWS WRONG DATA ON DD PROBLEM DESCRIPTION: When the default value for a VARCHAR is changed via the SQL ALTER statement, the correct value is implemented, but shows incorrectly in the DataDictionary detail. The length is omitted from the first two bytes and the string is shifted left. SYMPTOMS: Incorrect value in detail reports. E.g. "05AAAAA" indicating a five-character string of "A's, would be shown as just "AAAAA". IMPACT: If the database is re-cataloged, the invalid string would cause an error. If only SQL is used for changes, no adverse effects are seen. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom Datadictionary Version 15.0 CA Datacom Datadictionary Release 15.1 Related Problem: DD 2202 Copyright (C) 2019 CA. All rights reserved. R00636-DCM151-SP1 DESC(SQL ALTER VARCHAR DEFAULT SHOWS WRONG DATA ON DD). ++VER (Z038) FMID (CAADF10) PRE (S009919 S010462) SUP (ST10466)

Service	Details
S010467	S010467 M.C.S. ENTRIES = ++PTF (S010467) ENHANCEMENT TO ALLOW DATE/TIME DURATIONS TO USE SOURCE CACHE ENHANCEMENT DESCRIPTION: Queries using a LABELED DURATION are not eligible for the Source Cache. This enhancement removes that restriction. PRODUCT(S) AFFECTED: CA Datacom SQL Release 15.1 Related Problem: SQL 2189 Copyright (C) 2019 CA. All rights reserved. R00637-DCM151-SP1 DESC(ENHANCEMENT TO ALLOW DATE/TIME DURATIONS TO USE SOURCE CACHE). ++VER (Z038) FMID (CAVEF10) PRE (S010335) SUP (AR90044 R090044 S006412 ST06412 ST10244 ST10467 TR89785 TR90044)

Service	Details
S010519	S010519 M.C.S. ENTRIES = ++PTF (S010519) BASE RETIX CAN FAIL IF TABLE IN HISTORY STATUS PROBLEM DESCRIPTION: A full base DBUTLTY RETIX can fail with RC 05(034) (Table not OPEN), if the base has a table in HISTORY status. SYMPTOMS: The DBUTLTY RETIX terminates abnormally with the following messages: DB13001E - UNEXPECTED RETURN CODE 05 (34) TABLE HAS NOT BEEN OPENED DB10045E - ABNORMAL TERMINATION DUE TO ERROR(S) IMPACT: The RETIX function for such a base does not complete successfully. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Version 15.0 CA Datacom/DB Release 15.1 Related Problem: DB 5596 Copyright (C) 2019 CA. All rights reserved. R00640-DCM151-SP1 DESC(BASE RETIX CAN FAIL IF TABLE IN HISTORY STATUS). ++VER (Z038) FMID (CABDF10) PRE (R090075 R090903 R092858 R093647 R094095 S005597 S009367) SUP (S003704 S007524 ST03704 ST07524 ST10519)

Service	Details
S010523	S010523 M.C.S. ENTRIES = ++PTF (S010523) RC05(34) CAUSED BY NTF ON -UPG PROBLEM DESCRIPTION: When using DDUPDATE to do a -UPG transaction, a RC 05(34) can occur when there is no entity found for the transaction. This happens because a Detail Report is attempting to generate on a non-existing entity. SYMPTOMS: A RC 05(34) occurs in the MUF PXX, and an internal RC(04) occurs on the failed report generation. IMPACT: Minimal. But, when using -SET NTF0 to return a RC=0 when a 'Not Found' condition occurs, the failed report will return RC=04. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom Datadictionary Version 15.0 CA Datacom Datadictionary Release 15.1 Related Problem: DD 2192 Copyright (C) 2019 CA. All rights reserved. R00641-DCM151-SP1 DESC(RC05(34) CAUSED BY NTF ON -UPG). ++VER (Z038) FMID (CAADF10) SUP (ST10523)

Service	Details																																																										
S010617	S010617 M.C.S. ENTRIES = ++PTF (S010617)																																																										
	RECOVERY PROBLEMS IF LXX INIT OR EXTEND EXCEEDS MAX TRACKS PROBLEM DESCRIPTION: The maximum allocation for a Log Area (LXX) dataset is 15,658,734 tracks. If this limit is exceeded during a DBUTLTY INIT or a directed DYNAMIC_EXTEND of the LXX, the process should fail with return code 76(015) (OPEN ERROR - TOO MANY TRACKS). Instead, the excessive allocation is successful, but can cause unpredictable problems, for instance after a SPILL of the LXX. As a result, subsequent RECOVERY processing may fail and data integrity may be compromised. The problem is very unlikely to occur, since allocation of this magnitude is very unusual. There is no known case. The problem was discovered under highly irregular circumstances. This solution will cause the excessive allocation to fail with RC 76(015) as intended. SYMPTOMS: The excessive allocation can cause unpredictable symptoms, including failed RECOVERY processing, resulting in possible data integrity problems. IMPACT: Unpredictable problems can occur. Specifically SPILL and RECOVERY processing may be unsuccessful. Data integrity problems are possible. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: CA Datacom/DB Release 15.1 Related Problem: DB 5588 Copyright (C) 2019 CA. All rights reserved. R00647-DCM151-SP1 DESC(RECOVERY PROBLEMS IF LXX INIT OR EXTEND EXCEEDS MAX TRACKS). ++VER (Z038) FMID (CABDF10) PRE (R092259 R092858 R093647 R098926 R099171 S007233) SUP (R090535 R096204 R098085 S005962 S006715 ST04618 ST05961 ST05962 ST06150 ST06516 ST06715 ST10617 TR90535 TR96204 TR98085) <table> <tr><td>MCS</td><td>S009190</td><td>STARTS ON PAGE 0002</td></tr> <tr><td>MCS</td><td>S009437</td><td>STARTS ON PAGE 0004</td></tr> <tr><td>MCS</td><td>S009683</td><td>STARTS ON PAGE 0005</td></tr> <tr><td>MCS</td><td>S009994</td><td>STARTS ON PAGE 0007</td></tr> <tr><td>MCS</td><td>S010082</td><td>STARTS ON PAGE 0007</td></tr> <tr><td>MCS</td><td>S010095</td><td>STARTS ON PAGE 0009</td></tr> <tr><td>MCS</td><td>S010261</td><td>STARTS ON PAGE 0009</td></tr> <tr><td>MCS</td><td>S010328</td><td>STARTS ON PAGE 0011</td></tr> <tr><td>MCS</td><td>S010335</td><td>STARTS ON PAGE 0012</td></tr> <tr><td>MCS</td><td>S010373</td><td>STARTS ON PAGE 0013</td></tr> <tr><td>MCS</td><td>S010380</td><td>STARTS ON PAGE 0014</td></tr> <tr><td>MCS</td><td>S010395</td><td>STARTS ON PAGE 0015</td></tr> <tr><td>MCS</td><td>S010416</td><td>STARTS ON PAGE 0015</td></tr> <tr><td>MCS</td><td>S010462</td><td>STARTS ON PAGE 0016</td></tr> <tr><td>MCS</td><td>S010466</td><td>STARTS ON PAGE 0017</td></tr> <tr><td>MCS</td><td>S010467</td><td>STARTS ON PAGE 0018</td></tr> <tr><td>MCS</td><td>S010519</td><td>STARTS ON PAGE 0018</td></tr> <tr><td>MCS</td><td>S010523</td><td>STARTS ON PAGE 0019</td></tr> <tr><td>MCS</td><td>S010617</td><td>STARTS ON PAGE 0020</td></tr> </table>		MCS	S009190	STARTS ON PAGE 0002	MCS	S009437	STARTS ON PAGE 0004	MCS	S009683	STARTS ON PAGE 0005	MCS	S009994	STARTS ON PAGE 0007	MCS	S010082	STARTS ON PAGE 0007	MCS	S010095	STARTS ON PAGE 0009	MCS	S010261	STARTS ON PAGE 0009	MCS	S010328	STARTS ON PAGE 0011	MCS	S010335	STARTS ON PAGE 0012	MCS	S010373	STARTS ON PAGE 0013	MCS	S010380	STARTS ON PAGE 0014	MCS	S010395	STARTS ON PAGE 0015	MCS	S010416	STARTS ON PAGE 0015	MCS	S010462	STARTS ON PAGE 0016	MCS	S010466	STARTS ON PAGE 0017	MCS	S010467	STARTS ON PAGE 0018	MCS	S010519	STARTS ON PAGE 0018	MCS	S010523	STARTS ON PAGE 0019	MCS	S010617	STARTS ON PAGE 0020
MCS	S009190	STARTS ON PAGE 0002																																																									
MCS	S009437	STARTS ON PAGE 0004																																																									
MCS	S009683	STARTS ON PAGE 0005																																																									
MCS	S009994	STARTS ON PAGE 0007																																																									
MCS	S010082	STARTS ON PAGE 0007																																																									
MCS	S010095	STARTS ON PAGE 0009																																																									
MCS	S010261	STARTS ON PAGE 0009																																																									
MCS	S010328	STARTS ON PAGE 0011																																																									
MCS	S010335	STARTS ON PAGE 0012																																																									
MCS	S010373	STARTS ON PAGE 0013																																																									
MCS	S010380	STARTS ON PAGE 0014																																																									
MCS	S010395	STARTS ON PAGE 0015																																																									
MCS	S010416	STARTS ON PAGE 0015																																																									
MCS	S010462	STARTS ON PAGE 0016																																																									
MCS	S010466	STARTS ON PAGE 0017																																																									
MCS	S010467	STARTS ON PAGE 0018																																																									
MCS	S010519	STARTS ON PAGE 0018																																																									
MCS	S010523	STARTS ON PAGE 0019																																																									
MCS	S010617	STARTS ON PAGE 0020																																																									

CA Datacom/DB 15.1
CA RS 1911 Product/Component Listing

25

Product Family	Product	Release
Database	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 1911 Product/Component Count for this release is 7		

CA Datacom/DB 15.1
All CA RS Levels Service List

CA RS Level	Service	FMID
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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	R099737	CABDF10
	R099516	CABDF10
	R099067	CABDF10
CAR1801	R099675	CABDF10
	R099532	CABDF10
	R099390	CABDF10
	R099352	CABDF10
	R099100	CABDF10
	R098976	CABDF11

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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
	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

CA RS Level	Service	FMID
	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