

CA Datacom/DB 15.1  
CA RS 2012 Service List

1

| Service                                            | Description                                           | Type      |
|----------------------------------------------------|-------------------------------------------------------|-----------|
| S014980                                            | RARE TIMING BASED MUF LOOP DURING TRANSACTION BACKOUT | *HIP/PRP* |
| S015292                                            | MUF LOOP IN DBSUBPR AFTER APPLICATION JOB IS CANCELED | PTF       |
| S015342                                            | NEW FORMAT ELEMENTS TO THE TO_DATE                    | PTF       |
| S015425                                            | DBSQLPR VARCHAR WITH LENGTH ZERO PRINTS THE MAX SIZE  | PTF       |
| S015490                                            | DDSDCLM INCORRECT BASIS MODULE                        | ** PRP ** |
| S015521                                            | ENHANCEMENT: SQL LIKE PREDICATE IN CBS                | PTF       |
| S015527                                            | LEFT JOIN ON REJECTING ROWS AFTER S011629             | ** PRP ** |
| S015651                                            | DDPDE20001 ENCRYPTION NOT ALLOWED FOR VAR TBL         | PTF       |
| The CA RS 2012 service count for this release is 8 |                                                       |           |

CA Datacom/DB  
CA RS 2012 Service List for CAADF10

2

| FMID                                            | Service | Description                                   | Type      |
|-------------------------------------------------|---------|-----------------------------------------------|-----------|
| CAADF10                                         | S015490 | DDSDCLM INCORRECT BASIS MODULE                | ** PRP ** |
|                                                 | S015651 | DDPDE20001 ENCRYPTION NOT ALLOWED FOR VAR TBL | PTF       |
| The CA RS 2012 service count for this FMID is 2 |         |                                               |           |

CA Datacom/DB  
CA RS 2012 Service List for CABDF10

| FMID                                            | Service | Description                                           | Type      |
|-------------------------------------------------|---------|-------------------------------------------------------|-----------|
| CABDF10                                         | S014980 | RARE TIMING BASED MUF LOOP DURING TRANSACTION BACKOUT | *HIP/PRP* |
|                                                 | S015292 | MUF LOOP IN DBSUBPR AFTER APPLICATION JOB IS CANCELED | PTF       |
|                                                 | S015521 | ENHANCEMENT: SQL LIKE PREDICATE IN CBS                | PTF       |
| The CA RS 2012 service count for this FMID is 3 |         |                                                       |           |

CA Datacom/DB  
CA RS 2012 Service List for CAVEF10

| FMID                                            | Service | Description                                          | Type      |
|-------------------------------------------------|---------|------------------------------------------------------|-----------|
| CAVEF10                                         | S015342 | NEW FORMAT ELEMENTS TO THE TO_DATE                   | PTF       |
|                                                 | S015425 | DBSQLPR VARCHAR WITH LENGTH ZERO PRINTS THE MAX SIZE | PTF       |
|                                                 | S015527 | LEFT JOIN ON REJECTING ROWS AFTER S011629            | ** PRP ** |
| The CA RS 2012 service count for this FMID is 3 |         |                                                      |           |

| Service | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SO14980 | <p>SO14980 M.C.S. ENTRIES = ++PTF (SO14980)</p> <p>RARE TIMING BASED MUF LOOP DURING TRANSACTION BACKOUT</p> <p>PROBLEM DESCRIPTION:</p> <p>The CA Datacom/DB Multi-User Facility (MUF) can go into a loop during transaction backout processing (ROLBK). The problem is very rare and due to a timing problem when two SRB's (or TCB's ) conflict on a single LOGPOOL buffer while processing a ROLBK command.</p> <p>SYMPTOMS:</p> <p>The MUF appears to hang, since no work is getting done. A STATUS command shows many tasks as "READY TO RUN" and some tasks as "WAIT BFR LOCK L". Other WAIT states are possible and the STATUS of these tasks does not change over time.</p> <p>IMPACT:</p> <p>There is a MUF outage since it needs to be cancelled and restarted. The problem is highly unlikely to recur after a restart.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA Datacom/DB <span style="float: right;">Release 15.1</span></p> <p>Related Problem:</p> <p>DB 5695</p> <p>Copyright (C) 2020 CA. All rights reserved. R00791-DCM151-SP2</p> <p>DESC(RARE TIMING BASED MUF LOOP DURING TRANSACTION BACKOUT).<br/>++VER (Z038)<br/>FMID (CABDF10)<br/>PRE ( R088863 R090075 R090903 R091015 R091632 R092259<br/>R093647 R094095 R095667 R099532 S004057 S009648<br/>S010395 S013716 S014067 )<br/>SUP ( HC90081 R092600 R096370 S004538 S004997 S005404<br/>S007166 S011562 ST04538 ST04997 ST05404 ST07166<br/>ST11562 ST14980 TR92600 TR96370 XC90081 )</p> |

| Service | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S015292 | <p>S015292 M.C.S. ENTRIES = ++PTF (S015292)</p> <p>MUF LOOP IN DBSUBPR AFTER APPLICATION JOB IS CANCELED</p> <p>PROBLEM DESCRIPTION:</p> <p>The CA Datacom/DB Multi-User Facility (MUF) may go into a tight loop in module DBSUBPR. This can occur if an application job is canceled while it has an active request in MUF.</p> <p>This loop will always be preceded by message:</p> <p>DB02406I - PXX END - PATCH INT</p> <p>and a corresponding Master List PXX dump will be produced with this header:</p> <p>"REASON--PATCH INT".</p> <p>The loop does not occur in most cases when an application job is canceled even under the above circumstances. Other timing events must occur which contribute to the loop.</p> <p>SYMPTOMS:</p> <p>The MUF CPU time is much higher than normal and the MUF is unresponsive to application requests, i.e. they appear to hang. This is due to a MUF loop in module DBSUBPR.</p> <p>IMPACT:</p> <p>There is an outage of the MUF, since it must be cycled.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA Datacom/DB <span style="float: right;">Release 15.1</span></p> <p>Related Problem:</p> <p>DB 5699</p> <p>Copyright (C) 2020 CA. All rights reserved. R00805-DCM151-SP2</p> <p>DESC(MUF LOOP IN DBSUBPR AFTER APPLICATION JOB IS CANCELED).</p> <p>++VER (Z038)</p> <p>FMID (CABDF10)</p> <p>PRE ( R088469 R090903 R091632 R092858 R093251 R093647</p> <p>R094095 R096300 R096499 S003879 S006748 S014067 )</p> <p>SUP ( R097743 S010095 ST10095 ST15292 TR97743 )</p> |

| Service | Details                                                                                                                                                                                                                                                                  |                                   |                                                                         |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------|
| SO15342 | SO15342 M.C.S. ENTRIES = ++PTF (SO15342)                                                                                                                                                                                                                                 |                                   |                                                                         |
|         | NEW FORMAT ELEMENTS TO THE TO_DATE                                                                                                                                                                                                                                       |                                   |                                                                         |
|         | ENHANCEMENT DESCRIPTION:                                                                                                                                                                                                                                                 |                                   |                                                                         |
|         | This enhancement adds support for new format elements to the TO_DATE function.                                                                                                                                                                                           |                                   |                                                                         |
|         | Format element                                                                                                                                                                                                                                                           | Related components of a timestamp | Description                                                             |
|         | -----                                                                                                                                                                                                                                                                    | -----                             | -----                                                                   |
|         | DDD                                                                                                                                                                                                                                                                      | Month, day                        | Day of year (001-366).                                                  |
|         | RR                                                                                                                                                                                                                                                                       | year                              | Last two digits of the adjusted year (00-99)                            |
|         | RRRR                                                                                                                                                                                                                                                                     | year                              | 4-digit adjusted year (0000-9999)                                       |
|         | HH12                                                                                                                                                                                                                                                                     | hour                              | Hour of the day (01-12) in 12-hour format. AM is the default indicator. |
|         | AM or PM                                                                                                                                                                                                                                                                 | hour                              | Meridian indicator (morning or evening) without periods.                |
|         | SSSSS                                                                                                                                                                                                                                                                    | hours, minutes, seconds           | Seconds since previous midnight (00000-86400).                          |
|         | The RR and RRRR format elements can be used to alter how a specification for a year is to be interpreted by adjusting the value to produce a 2-digit value or a 4-digit value depending on the leftmost two digits of the current year according to the following table. |                                   |                                                                         |
|         | Column 1 - Last two digits of the current year                                                                                                                                                                                                                           |                                   |                                                                         |
|         | Column 2 - Two-digit year in string-expression                                                                                                                                                                                                                           |                                   |                                                                         |
|         | Column 3 - First two digits of the year component of timestamp                                                                                                                                                                                                           |                                   |                                                                         |
|         | Column 1                                                                                                                                                                                                                                                                 | Column 2                          | Column 3                                                                |
|         | -----                                                                                                                                                                                                                                                                    | -----                             | -----                                                                   |
|         | 00-50                                                                                                                                                                                                                                                                    | 00-49                             | First two digits of the current year                                    |
|         | 51-99                                                                                                                                                                                                                                                                    | 00-49                             | First two digits of the current year + 1                                |
|         | 00-50                                                                                                                                                                                                                                                                    | 50-99                             | First two digits of the current year - 1                                |
|         | 51-99                                                                                                                                                                                                                                                                    | 50-99                             | First two digits of the current year                                    |
|         | EXAMPLES:                                                                                                                                                                                                                                                                |                                   |                                                                         |
|         | TO_DATE('1978001', 'YYYYDDD')                                                                                                                                                                                                                                            |                                   |                                                                         |
|         | '1978-01-01-00.00.00.000000'                                                                                                                                                                                                                                             |                                   |                                                                         |
|         | TO_DATE('15002', 'RRDDD')                                                                                                                                                                                                                                                |                                   |                                                                         |
|         | '2015-01-02-00.00.00.000000'                                                                                                                                                                                                                                             |                                   |                                                                         |
|         | TO_DATE('78002', 'RRDDD')                                                                                                                                                                                                                                                |                                   |                                                                         |
|         | '1978-01-02-00.00.00.000000'                                                                                                                                                                                                                                             |                                   |                                                                         |
|         | TO_DATE('1978/05/06 2:01 PM', 'YYYY/MM/DD HH12:MI AM')                                                                                                                                                                                                                   |                                   |                                                                         |
|         | '1978-05-06-14.01.00.000000'                                                                                                                                                                                                                                             |                                   |                                                                         |
|         | TO_DATE('19780506.3601', 'YYYYMMDD.SSSSS')                                                                                                                                                                                                                               |                                   |                                                                         |
|         | '1978-05-06-01.00.01.000000'                                                                                                                                                                                                                                             |                                   |                                                                         |
|         | PRODUCT(S) AFFECTED:                                                                                                                                                                                                                                                     |                                   |                                                                         |
|         | CA Datacom SQL                                                                                                                                                                                                                                                           |                                   | Release 15.1                                                            |
|         | Related Problem:                                                                                                                                                                                                                                                         |                                   |                                                                         |
|         | SQL 2255                                                                                                                                                                                                                                                                 |                                   |                                                                         |
|         | Copyright (C) 2020 CA. All rights reserved. R00806-DCM151-SP2                                                                                                                                                                                                            |                                   |                                                                         |
|         | DESC(NEW FORMAT ELEMENTS TO THE TO_DATE).                                                                                                                                                                                                                                |                                   |                                                                         |
|         | ++VER (Z038)                                                                                                                                                                                                                                                             |                                   |                                                                         |
|         | FMID (CAVEF10)                                                                                                                                                                                                                                                           |                                   |                                                                         |
|         | PRE ( S010335 S012497 S013742 S014147 S015165 )                                                                                                                                                                                                                          |                                   |                                                                         |
|         | SUP ( AR90044 R090044 S006412 S010467 S010702 ST06412                                                                                                                                                                                                                    |                                   |                                                                         |

| Service        | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                         |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
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|                | <div>ST10244 ST10467 ST10702 ST15342 TR89785 TR90044 )</div> <div>++HOLD (SO15342) SYSTEM FMID(CAVEF10)</div> <div>REASON (DOC ) DATE (20314)</div> <div>COMMENT (</div> <div>+-----+</div> <div>  CA Datacom SQL Release 15.1  </div> <div>+-----+</div> <div>*****</div> <div>* PUBLICATION *</div> <div>*****</div> <div>ENHANCEMENT DESCRIPTION:</div> <div>This enhancement adds support for new format elements to the TO_DATE function.</div> <div><table><tr><th>Format element</th><th>Related components of a timestamp</th><th>Description</th></tr></table></div> <div>+-----+-----+-----+</div> <div><table><tr><td>DDD</td><td>Month, day</td><td>Day of year (001-366).</td></tr><tr><td>RR</td><td>year</td><td>Last two digits of the adjusted year (00-99)</td></tr><tr><td>RRRR</td><td>year</td><td>4-digit adjusted year (0000-9999)</td></tr><tr><td>HH12</td><td>hour</td><td>Hour of the day (01-12) in 12-hour format. AM is the default indicator.</td></tr><tr><td>AM or PM</td><td>hour</td><td>Meridian indicator (morning or evening) without periods.</td></tr><tr><td>SSSSS</td><td>hours, minutes, seconds</td><td>Seconds since previous midnight (00000-86400).</td></tr></table></div> <div>The RR and RRRR format elements can be used to alter how a specification for a year is to be interpreted by adjusting the value to produce a 2-digit value or a 4-digit value depending on the leftmost two digits of the current year according to the following table.</div> <div>Column 1 - Last two digits of the current year</div> <div>Column 2 - Two-digit year in string-expression</div> <div>Column 3 - First two digits of the year component of timestamp</div> <div><table><tr><th>Column 1</th><th>Column 2</th><th>Column 3</th></tr></table></div> <div>+-----+-----+-----+</div> <div><table><tr><td>00-50</td><td>00-49</td><td>First two digits of the current year</td></tr><tr><td>51-99</td><td>00-49</td><td>First two digits of the current year + 1</td></tr><tr><td>00-50</td><td>50-99</td><td>First two digits of the current year - 1</td></tr><tr><td>51-99</td><td>50-99</td><td>First two digits of the current year</td></tr></table></div> <div>EXAMPLES:</div> <div>TO_DATE('1978001', 'YYYYDDD')</div> <div>'1978-01-01-00.00.00.000000'</div> <div>TO_DATE('15002', 'RRDDD')</div> <div>'2015-01-02-00.00.00.000000'</div> <div>TO_DATE('78002', 'RRDDD')</div> <div>'1978-01-02-00.00.00.000000'</div> <div>).</div> | Format element                                                          | Related components of a timestamp | Description | DDD | Month, day | Day of year (001-366). | RR | year | Last two digits of the adjusted year (00-99) | RRRR | year | 4-digit adjusted year (0000-9999) | HH12 | hour | Hour of the day (01-12) in 12-hour format. AM is the default indicator. | AM or PM | hour | Meridian indicator (morning or evening) without periods. | SSSSS | hours, minutes, seconds | Seconds since previous midnight (00000-86400). | Column 1 | Column 2 | Column 3 | 00-50 | 00-49 | First two digits of the current year | 51-99 | 00-49 | First two digits of the current year + 1 | 00-50 | 50-99 | First two digits of the current year - 1 | 51-99 | 50-99 | First two digits of the current year |
| Format element | Related components of a timestamp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Description                                                             |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| DDD            | Month, day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Day of year (001-366).                                                  |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| RR             | year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Last two digits of the adjusted year (00-99)                            |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| RRRR           | year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4-digit adjusted year (0000-9999)                                       |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| HH12           | hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Hour of the day (01-12) in 12-hour format. AM is the default indicator. |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| AM or PM       | hour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Meridian indicator (morning or evening) without periods.                |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| SSSSS          | hours, minutes, seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Seconds since previous midnight (00000-86400).                          |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| Column 1       | Column 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Column 3                                                                |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| 00-50          | 00-49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | First two digits of the current year                                    |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| 51-99          | 00-49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | First two digits of the current year + 1                                |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| 00-50          | 50-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | First two digits of the current year - 1                                |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |
| 51-99          | 50-99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | First two digits of the current year                                    |                                   |             |     |            |                        |    |      |                                              |      |      |                                   |      |      |                                                                         |          |      |                                                          |       |                         |                                                |          |          |          |       |       |                                      |       |       |                                          |       |       |                                          |       |       |                                      |

| Service        | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |              |                |              |
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| S015425        | <p>S015425 M.C.S. ENTRIES = ++PTF (S015425)</p> <p>DBSQLPR VARCHAR WITH LENGTH ZERO PRINTS THE MAX SIZE</p> <p>PROBLEM DESCRIPTION:</p> <p>When a VARCHAR column has a string of 0 length, the maximum length of the VARCHAR is used instead of the actual length. This can be seen when printing output with DBSQLPR.</p> <p>SYMPTOMS:</p> <p>DBSQLPR may print extra lines when in THIN mode.</p> <p>IMPACT:</p> <p>Extra lines are printed in DBSQLPR.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <table> <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> <p>Related Problem:</p> <p>SQL 2257</p> <p>Copyright (C) 2020 CA. All rights reserved. R00808-DCM151-SP2</p> <p>DESC(DBSQLPR VARCHAR WITH LENGTH ZERO PRINTS THE MAX SIZE).</p> <p>++VER (Z038)</p> <p>FMID (CAVEF10)</p> <p>PRE ( S001886 S005243 S005343 S006396 S010328 S011629 )</p> <p>SUP ( ST10729 ST15425 )</p> | CA Datacom SQL | Release 15.0 | CA Datacom SQL | Release 15.1 |
| CA Datacom SQL | Release 15.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |              |                |              |
| CA Datacom SQL | Release 15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |              |                |              |

| Service | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SO15490 | <p>SO15490 M.C.S. ENTRIES = ++PTF (SO15490)</p> <p>DDSDCLM INCORRECT BASIS MODULE</p> <p>PROBLEM DESCRIPTION:</p> <p>PTF SO15286 for 15.1 and R072842 for 15.0 delivered correcting transactions to the Datadictionary, but an incorrect version of the SDC basis module for comparison was delivered.</p> <p>SYMPTOMS:</p> <p>DDSDCLM, with SYSIN input of -SDC 150,PROD, will miscompare because the changes are not reflected in DD150SD basis module.</p> <p>IMPACT:</p> <p>DDSDCLM may give erroneous messages.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA Datacom Datadictionary Version 15.0</p> <p>CA Datacom Datadictionary Release 15.1</p> <p>Related Problem:</p> <p>DD 2213</p> <p>Copyright (C) 2020 CA. All rights reserved. R00809-DCM151-SP2</p> <p>DESC(DDSDCLM INCORRECT BASIS MODULE).</p> <p>++VER (Z038)</p> <p>FMID (CAADF10)</p> <p>PRE ( R097607 )</p> <p>SUP ( AS15286 R097386 SO15286 ST15286 ST15490 TR97386 )</p> <p>++HOLD (SO15490) SYSTEM FMID(CAADF10)</p> <p>REASON (ACTION ) DATE (20308)</p> <p>COMMENT (</p> <pre> +-----+        CA Datacom Datadictionary      Release 15.1        +-----+-----+  SEQUENCE   After Apply                                       +-----+-----+  PURPOSE     Update attribute access information.                   +-----+-----+  USERS                                                                   AFFECTED     All                                                      +-----+-----+  KNOWLEDGE                                                               REQUIRED     Datadictionary Administrator                           +-----+-----+  ACCESS                                                                  REQUIRED     Must be able to execute DDUPDATE and DDCFLD utilities.   +-----+-----+ ***** * STEPS      TO      PERFORM * ***** 1. Apply this SYSMOD with: 'BYPASS(HOLDSYSTEM(ACTION))'. 2. Apply the transactions contained in source member AAD01942 using the DDUPDATE utility. 3. After these transactions have been successfully applied, execute an HSD RESET using the DDCFLD utility to activate </pre> <p>)</p> |

| Service | Details                  |
|---------|--------------------------|
|         | the modifications.<br>). |

| Service | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SO15521 | <p>SO15521 M.C.S. ENTRIES = ++PTF (SO15521)</p> <p>ENHANCEMENT: SQL LIKE PREDICATE IN CBS</p> <p>ENHANCEMENT DESCRIPTION:</p> <p>This product enhancement delivers code which provides support for the Compound Boolean Selection (CBS) to directly process SQL LIKE predicates which can now be passed by SQL to CBS, where they can be evaluated from the traversal index.</p> <p>Reading the data area is considerably more expensive than the index, so when a large portion of rows are rejected by the LIKE predicate, this can be a big savings in resources.</p> <p>Also, if the LIKE predicate is under an OR, then none of the other predicates under the OR can be passed to CBS.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA Datacom/DB Release 15.1</p> <p>CA Datacom SQL Release 15.1</p> <p>Related Problem:</p> <p>DB 5700</p> <p>Copyright (C) 2020 CA. All rights reserved. R00810-DCM151-SP2</p> <p>DESC(ENHANCEMENT: SQL LIKE PREDICATE IN CBS).</p> <p>++VER (Z038)</p> <p>FMID (CABDF10)</p> <p>PRE ( R092259 R095667 S010395 S011479 )</p> <p>SUP ( R090197 R098142 R098800 S000922 S004938 S007141</p> <p>S013581 ST00922 ST04938 ST07141 ST13581 ST15521</p> <p>TR90197 TR98142 TR98800 )</p> |

| Service | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SO15527 | <p>SO15527 M.C.S. ENTRIES = ++PTF (SO15527)</p> <p>LEFT JOIN ON REJECTING ROWS AFTER SO11629</p> <p>PROBLEM DESCRIPTION:</p> <p>Predicates referencing the outer table of a left join are rejecting rows when FALSE instead of preserving the outer table row and setting the inner table columns to the null value.</p> <p>Example:</p> <pre>SELECT * FROM T1 LEFT JOIN T2 ON T1.COL1 = T2.COL1 AND T1.COL1 &lt; 'A2'    -- &lt;= Should not reject rows</pre> <p>SYMPTOMS:</p> <p>Rows not qualified by predicates referencing the outer table of a left join are rejected.</p> <p>IMPACT:</p> <p>Such queries do not return the correct rows.</p> <p>CIRCUMVENTION:</p> <p>None.</p> <p>PRODUCT(S) AFFECTED:</p> <p>CA Datacom SQL <span style="float: right;">Release 15.1</span></p> <p>Related Problem:</p> <p>SQL 2260</p> <p>Copyright (C) 2020 CA. All rights reserved. R00811-DCM151-SP2</p> <p>DESC(LEFT JOIN ON REJECTING ROWS AFTER SO11629).</p> <p>++VER (Z038)</p> <p>FMID (CAVEF10)</p> <p>PRE ( R090155 R090826 R090854 R093613 R095978 S001886</p> <p>SO11629 SO13173 SO13526 )</p> <p>SUP ( DS11629 R088550 R099168 ST15527 TR88208 TR88392</p> <p>TR88550 TR90605 TR99168 )</p> |

| Service | Details                                                                                                                      |                             |
|---------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| SO15651 | SO15651 M.C.S. ENTRIES = ++PTF (SO15651)                                                                                     |                             |
|         | DDPDE20001 ENCRYPTION NOT ALLOWED FOR VAR TBL                                                                                |                             |
|         | PROBLEM DESCRIPTION:                                                                                                         |                             |
|         | When attempting to model a table with variable length via -1000 MODEL, the user may encounter an error.                      |                             |
|         | SYMPTOMS:                                                                                                                    |                             |
|         | Error: DDPDE20001 ENCRYPTION NOT ALLOWED FOR VAR TBL can erroneously occur if ENCRYPTION-TYPE on the modeled table is BLANK. |                             |
|         | IMPACT:                                                                                                                      |                             |
|         | Transaction will fail with a RC=8 and the table will not create.                                                             |                             |
|         | CIRCUMVENTION:                                                                                                               |                             |
|         | None.                                                                                                                        |                             |
|         | PRODUCT(S) AFFECTED:                                                                                                         |                             |
|         | CA Datacom Datadictionary                                                                                                    | Version 15.0                |
|         | CA Datacom Datadictionary                                                                                                    | Release 15.1                |
|         | Related Problem:                                                                                                             |                             |
|         | DD                                                                                                                           | 2212                        |
|         | Copyright (C) 2020 CA. All rights reserved. R00813-DCM151-SP2                                                                |                             |
|         | DESC(DDPDE20001 ENCRYPTION NOT ALLOWED FOR VAR TBL) .                                                                        |                             |
|         | ++VER (Z038)                                                                                                                 |                             |
|         | FMID (CAADF10)                                                                                                               |                             |
|         | PRE ( R091196 R097868 )                                                                                                      |                             |
|         | SUP ( R096537 R098170 S004157 ST04157 ST15651 TR96537                                                                        |                             |
|         | TR98170 )                                                                                                                    |                             |
|         | MCS                                                                                                                          | S014980 STARTS ON PAGE 0002 |
|         | MCS                                                                                                                          | S015292 STARTS ON PAGE 0002 |
|         | MCS                                                                                                                          | S015342 STARTS ON PAGE 0003 |
|         | MCS                                                                                                                          | S015425 STARTS ON PAGE 0006 |
|         | MCS                                                                                                                          | S015490 STARTS ON PAGE 0007 |
|         | MCS                                                                                                                          | S015521 STARTS ON PAGE 0008 |
|         | MCS                                                                                                                          | S015527 STARTS ON PAGE 0009 |
|         | MCS                                                                                                                          | S015651 STARTS ON PAGE 0010 |

CA Datacom/DB 15.1  
CA RS 2012 Product/Component Listing

15

| 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 2012 Product/Component Count for this release is 7 |                              |          |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
| CAR2012     | S015651 | CAADF10 |
|             | S015527 | CAVEF10 |
|             | S015521 | CABDF10 |
|             | S015490 | CAADF10 |
|             | S015425 | CAVEF10 |
|             | S015342 | CAVEF10 |
|             | S015292 | CABDF10 |
|             | S014980 | CABDF10 |
|             | S015286 | CAADF10 |
|             | S015224 | CAVEF10 |
| CAR2011     | S015186 | CABDF10 |
|             | S015165 | CAVEF10 |
|             | S014998 | CABDF10 |
|             | S014851 | CAADF10 |
|             | S014825 | CAVEF10 |
|             | S014818 | CABDF10 |
|             | S014813 | CAVEF10 |
|             | S014667 | CAVEF10 |
|             | S014578 | CAVEF10 |
|             | S014423 | CAVEF10 |
|             | S014067 | CABDF10 |
|             | S015008 | CABDF10 |
|             | S014951 | CABDF10 |
|             | S014911 | CABDF10 |
| CAR2010     | 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 |
|             | S014600 | CAADF10 |
| CAR2009     | S014495 | CABDF10 |
|             | S014493 | CAADF10 |
|             | S014369 | CAVEF10 |
|             | S014359 | CABDF10 |
|             | S014345 | CABDF11 |
|             | S014296 | CABDF10 |
|             | S014256 | CABDF10 |
|             | S014169 | CABDF10 |
|             | S014147 | CAVEF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | S014105 | CAVEF10 |
|             | S014079 | CABDF10 |
|             | S013992 | CAVEF10 |
|             | S013892 | CAVEF10 |
|             | S011882 | CABDF10 |
| CAR2008     | S014115 | CABDF10 |
|             | S014070 | CABDF10 |
|             | S014068 | CAVEF10 |
|             | S013991 | CABDF10 |
|             | S013902 | CAVEF10 |
|             | S013882 | CABDF10 |
|             | S013810 | CAADF10 |
|             | S013742 | CAVEF10 |
|             | S013740 | CABDF10 |
|             | S013739 | CAVEF10 |
|             | S013716 | CABDF10 |
|             | S013630 | CAVEF10 |
|             | S013594 | CABDF10 |
|             | S013581 | CABDF10 |
|             | S013544 | CAVEF10 |
|             | S013526 | CAVEF10 |
|             | S013441 | CAADF10 |
|             | S013286 | CAVEF10 |
|             | S013249 | CABDF10 |
|             | S013055 | CAVEF10 |
| CAR2007     | S013667 | CABDF10 |
|             | S013593 | CABDF10 |
|             | S013463 | CABDF10 |
|             | S013425 | CABDF10 |
|             | S013398 | CABDF10 |
|             | S013370 | CABDF10 |
|             | S013173 | CAVEF10 |
|             | S013156 | CABDF10 |
|             | S013145 | CAVEF10 |
|             | S013102 | CAVEF10 |
|             | S013090 | CABDF10 |
| CAR2006     | S013189 | CABDF10 |
|             | S013162 | CABDF10 |
|             | S013093 | CAVEF10 |
|             | S013040 | CABDF10 |
|             | S012962 | CAVEF10 |
|             | S012932 | CABDF10 |
|             | S012861 | CAVEF10 |
|             | S012743 | CAVEF10 |
|             | S011965 | CABDF10 |
|             | S011513 | CABDF10 |
| CAR2005     | S012828 | CABDF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | S012809 | CABDF10 |
|             | S012776 | CABDF10 |
|             | S012771 | CABDF10 |
|             | S012636 | CABDF10 |
|             | S012632 | CABDF10 |
|             | S012601 | CAVEF10 |
|             | S012557 | CAVEF10 |
|             | S012504 | CAVEF10 |
|             | S012497 | CAVEF10 |
|             | S012203 | CABDF10 |
|             | S012178 | CABDF10 |
|             | S011951 | CABDF10 |
|             | S006944 | CABDF11 |
| CAR2004     | S012202 | CAADF10 |
|             | S012165 | CABDF10 |
|             | S012048 | CABDF10 |
|             | S011975 | CABDF10 |
|             | S011629 | CAVEF10 |
|             | S011348 | CAVEF10 |
| CAR2003     | S011932 | CABDF10 |
|             | S011906 | CABDF10 |
|             | S011692 | CAADF10 |
|             | S011678 | CABDF10 |
|             | S010586 | CAVEF10 |
| CAR2002     | S011673 | CABDF10 |
|             | S011571 | CABDF10 |
|             | S011562 | CABDF10 |
|             | S011501 | CABDF10 |
|             | S011479 | CABDF10 |
|             | S011436 | CABDF10 |
|             | S011435 | CABDF10 |
|             | S011403 | CABDF10 |
|             | S011331 | CABDF10 |
|             | S011326 | CAVEF10 |
|             | S011247 | CABDF10 |
|             | S011223 | CAVEF10 |
|             | S011192 | CAVEF10 |
|             | S010960 | CAVEF10 |
|             | S010870 | CABDF10 |
|             | S010702 | CAVEF10 |
| CAR2001     | S011278 | CABDF10 |
|             | S011244 | CABDF10 |
|             | S010748 | CABDF10 |
|             | S010720 | CABDF10 |
|             | S010697 | CABDF10 |
| CAR1912     | S010776 | CABDF10 |
|             | S010727 | CABDF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | S010624 | CABDF10 |
|             | S010580 | CABDF10 |
|             | S010571 | CABDF10 |
|             | S010439 | CABDF10 |
|             | S009551 | CAVEF10 |
|             | S008336 | CAVEF10 |
| CAR1911     | S010617 | CABDF10 |
|             | S010523 | CAADF10 |
|             | S010519 | CABDF10 |
|             | S010467 | CAVEF10 |
|             | S010466 | CAADF10 |
|             | S010462 | CAADF10 |
|             | S010416 | CABDF10 |
|             | S010395 | CABDF10 |
|             | S010380 | CAVEF10 |
|             | S010373 | CABDF10 |
|             | S010335 | CAVEF10 |
|             | S010328 | CAVEF10 |
|             | S010261 | CABDF10 |
|             | S010095 | CABDF10 |
|             | S010082 | CABDF10 |
|             | S009994 | CAVEF10 |
|             | S009683 | CABDF10 |
|             | S009437 | CAVEF10 |
|             | S009190 | CAVEF10 |
| CAR1910     | S010109 | CABDF10 |
|             | S009919 | CAADF10 |
|             | S009835 | CABDF10 |
|             | S009814 | CAVEF10 |
|             | S009679 | CABDF10 |
|             | S009494 | CABDF10 |
|             | S009474 | CABDF10 |
| CAR1909     | S009749 | CAADF10 |
|             | S009682 | CABDF10 |
|             | S009648 | CABDF10 |
|             | S009610 | CABDF10 |
|             | S009543 | CABDF10 |
|             | S009510 | CABDF10 |
|             | S009479 | CABDF10 |
|             | S009464 | CABDF10 |
|             | S009367 | CABDF10 |
|             | S009270 | CABDF10 |
|             | S008758 | CAVEF10 |
| CAR1908     | S009219 | CABDF10 |
|             | S009151 | CABDF10 |
|             | S009143 | CABDF10 |
|             | S008933 | CAVEF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | S008913 | CAADF10 |
|             | S008889 | CAVEF10 |
|             | S008801 | CAVEF10 |
|             | S008749 | CABDF10 |
|             | S008622 | CABDF10 |
|             | S008452 | CAVEF10 |
|             | S008294 | CABDF10 |
| CAR1907     | S009034 | CABDF10 |
|             | S008926 | CABDF10 |
|             | S008775 | CABDF10 |
|             | S008697 | CABDF10 |
|             | S008685 | CABDF10 |
|             | S008602 | CABDF10 |
|             | S008590 | CABDF10 |
|             | S008488 | CABDF10 |
|             | S008444 | CABDF10 |
|             | S008394 | CABDF10 |
|             | S008374 | CAVEF10 |
|             | S008017 | CAVEF10 |
| CAR1906     | S008545 | CAADF10 |
|             | S008500 | CABDF10 |
|             | S008300 | CABDF10 |
|             | S008181 | CABDF10 |
|             | S008120 | CABDF10 |
|             | S008032 | CABDF10 |
|             | S007557 | CAVEF10 |
|             | S007544 | CAVEF10 |
| CAR1905     | S008152 | CABDF10 |
|             | S007948 | CABDF10 |
|             | S007923 | CABDF10 |
|             | S007900 | CABDF10 |
|             | S007846 | CABDF10 |
|             | S007835 | CABDF10 |
|             | S007524 | CABDF10 |
|             | S007519 | CABDF10 |
| CAR1904     | S007786 | CABDF10 |
|             | S007735 | CAADF10 |
|             | S007733 | CABDF10 |
|             | S007572 | CAADF10 |
|             | S007564 | CAADF10 |
|             | S007530 | CABDF10 |
|             | S007496 | CABDF10 |
|             | S007480 | CABDF10 |
|             | S007468 | CAVEF10 |
|             | S007461 | CAVEF10 |
|             | S007425 | CABDF10 |
|             | S007405 | CABDF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | S007233 | CABDF10 |
|             | S007166 | CABDF10 |
|             | S007008 | CABDF10 |
|             | S006957 | CABDF10 |
| CAR1903     | S007320 | CABDF10 |
|             | S007262 | CABDF10 |
|             | S007258 | CABDF10 |
|             | S007234 | CABDF10 |
|             | S007219 | CABDF10 |
|             | S007202 | CABDF10 |
|             | S007190 | CABDF10 |
|             | S007141 | CABDF10 |
|             | S007055 | CABDF10 |
|             | S007039 | CABDF10 |
|             | S007034 | CABDF10 |
|             | S006999 | CAVEF10 |
|             | S006945 | CABDF10 |
|             | S006922 | CAVEF10 |
|             | S006846 | CAVEF10 |
|             | S006768 | CABDF10 |
|             | S006750 | CAVEF10 |
|             | S006748 | CABDF10 |
|             | S004529 | CAADF10 |
| CAR1902     | S007113 | CABDF10 |
|             | S006840 | CABDF10 |
|             | S006815 | CABDF10 |
|             | S006692 | CABDF10 |
|             | S006613 | CABDF10 |
|             | S006547 | CABDF10 |
|             | S006404 | CABDF10 |
| CAR1901     | S006715 | CABDF10 |
|             | S006676 | CABDF10 |
|             | S006626 | CAVEF10 |
|             | S006551 | CABDF10 |
|             | S006519 | CABDF10 |
|             | S006473 | CAVEF10 |
|             | S006440 | CAVEF10 |
|             | S006422 | CABDF10 |
|             | S006412 | CAVEF10 |
|             | S006402 | CAVEF10 |
|             | S006401 | CABDF10 |
|             | S006396 | CAVEF10 |
|             | S006387 | CAVEF10 |
|             | S006366 | CABDF10 |
|             | S006365 | CABDF10 |
|             | S006238 | CAVEF10 |
|             | S006153 | CADQF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
| CAR1812     | S006314 | CABDF10 |
|             | S006231 | CAVEF10 |
|             | S006217 | CABDF10 |
|             | S006174 | CAVEF10 |
|             | S006133 | CABDF10 |
|             | S005985 | CAADF10 |
|             | S005964 | CABDF10 |
|             | S005962 | CABDF10 |
|             | S005935 | CAVEF10 |
|             | S005882 | CABDF10 |
|             | S005562 | CAVEF10 |
| CAR1811     | S005864 | CABDF10 |
|             | S005778 | CABDF10 |
|             | S005738 | CABDF10 |
|             | S005708 | CABDF10 |
|             | S005665 | CABDF10 |
|             | S005617 | CABDF10 |
|             | S005600 | CAVEF10 |
|             | S005597 | CABDF10 |
|             | S005583 | CABDF10 |
|             | S005492 | CABDF10 |
|             | S005423 | CABDF10 |
|             | S005417 | CAVEF10 |
|             | S005404 | CABDF10 |
|             | S005360 | CABDF10 |
|             | S005352 | CAVEF10 |
|             | S005300 | CAVEF10 |
|             | S005278 | CABDF10 |
| CAR1810     | S005596 | CABDF10 |
|             | S005383 | CABDF10 |
|             | S005361 | CABDF10 |
|             | S005343 | CAVEF10 |
|             | S005301 | CABDF10 |
|             | S005243 | CAVEF10 |
|             | S005239 | CABDF10 |
|             | S005221 | CABDF10 |
|             | S005210 | CAVEF10 |
|             | S005206 | CABDF10 |
|             | S005190 | CAVEF10 |
|             | S005131 | CABDF10 |
|             | S004938 | CABDF10 |
|             | S004931 | CABDF10 |
|             | S004867 | CAVEF10 |
|             | S004565 | CABDF10 |
| CAR1809     | S005129 | CABDF10 |
|             | S004997 | CABDF10 |
|             | S004978 | CABDF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | 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 |
|             | S003770 | CABDF10 |
|             | S003683 | CAVEF10 |
|             | S001886 | CAVEF10 |
|             | S001804 | CABDF10 |
| CAR1806     | S001888 | CABDF10 |
|             | S001724 | CABDF10 |
|             | S001708 | CABDF10 |
|             | S001597 | CABDF10 |
|             | S001569 | CABDF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | 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 |
|             | R098873 | CABDF11 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | 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 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | R097526 | CABDF10 |
|             | R097493 | CAADF10 |
|             | R097490 | CABDF10 |
|             | R097460 | CAADF10 |
|             | R097416 | CABDF10 |
|             | R097392 | CABDF10 |
|             | R097386 | CAADF10 |
|             | R097382 | CABDF10 |
|             | R097343 | CABDF10 |
|             | R097329 | CABDF10 |
|             | R097238 | CABDF10 |
|             | R097236 | CAVEF10 |
|             | R097225 | CAVEF10 |
|             | R097209 | CABDF10 |
|             | R097131 | CAVEF10 |
|             | R097126 | CAVEF10 |
|             | R096797 | CAVEF10 |
|             | R096118 | CAVEF10 |
|             | R095978 | CAVEF10 |
| CAR1708     | R097082 | CABDF10 |
|             | R096949 | CAADF10 |
|             | R096852 | CABDF10 |
|             | R096824 | CABDF10 |
|             | R096821 | CABDF10 |
|             | R096806 | CABDF10 |
|             | R096769 | CABDF10 |
|             | R096719 | CABDF10 |
|             | R096617 | CABDF10 |
|             | R096370 | CABDF10 |
| CAR1707     | R096568 | CABDF10 |
|             | R096537 | CAADF10 |
|             | R096499 | CABDF10 |
|             | R096447 | CABDF10 |
|             | R096440 | CABDF10 |
|             | R096426 | CABDF10 |
|             | R096420 | CABDF10 |
|             | R096403 | CABDF10 |
|             | R096260 | CABDF10 |
|             | R096191 | CABDF10 |
|             | R095487 | CAADF10 |
|             | R095386 | CADQF10 |
| CAR1706     | R096346 | CAADF10 |
|             | R096313 | CABDF10 |
|             | R096312 | CABDF10 |
|             | R096304 | CAADF10 |
|             | R096300 | CABDF10 |
|             | R096257 | CAADF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | R096252 | CABDF10 |
|             | R096213 | CABDF10 |
|             | R096204 | CABDF10 |
|             | R096133 | CABDF10 |
|             | R096053 | CABDF10 |
|             | R095915 | CABDF10 |
|             | R095833 | CABDF10 |
|             | R095761 | CABDF10 |
|             | R095719 | CABDF10 |
|             | R095676 | CABDF10 |
|             | R095600 | CABDF10 |
|             | R095564 | CABDF10 |
|             | R095097 | CAADF10 |
|             | R094902 | CABDF10 |
| CAR1705     | R095737 | CAVEF10 |
|             | R095667 | CABDF10 |
|             | R095621 | CADQF10 |
|             | R095609 | CAVEF10 |
|             | R095548 | CABDF10 |
|             | R095352 | CAVEF10 |
|             | R095305 | CABDF10 |
|             | R095277 | CABDF10 |
|             | R095235 | CAVEF10 |
|             | R095037 | CABDF10 |
|             | R094176 | CABDF10 |
| CAR1704     | R095080 | CABDF10 |
|             | R094912 | CABDF10 |
|             | R094907 | CABDF10 |
|             | R094783 | CABDF10 |
|             | R094696 | CAVEF10 |
|             | R094632 | CABDF10 |
| CAR1703     | R094327 | CABDF11 |
|             | R094324 | CAVEF10 |
|             | R094280 | CABDF10 |
|             | R094247 | CAVEF10 |
|             | R093821 | CAVEF10 |
|             | R093677 | CAVEF10 |
|             | R093613 | CAVEF10 |
|             | R090834 | CADQF10 |
| CAR1702     | R094177 | CADQF10 |
|             | R094095 | CABDF10 |
|             | R094090 | CABDF10 |
|             | R094085 | CABDF10 |
|             | R094001 | CABDF10 |
|             | R094000 | CABDF10 |
|             | R093647 | CABDF10 |
|             | R093616 | CABDF10 |

| CA RS<br>Level | Service | FMID    |
|----------------|---------|---------|
|                | R093587 | CABDF10 |
|                | R093585 | CABDF10 |
|                | R093148 | CABDF11 |
| CAR1701        | R093666 | CAVEF10 |
|                | R093560 | CAVEF10 |
|                | R093454 | CABDF10 |
|                | R093450 | CABDF10 |
|                | R093436 | CABDF10 |
|                | R093373 | CAADF10 |
|                | R093324 | CAVEF10 |
|                | R093251 | CABDF10 |
|                | R093201 | CABDF10 |
|                | R093127 | CABDF10 |
|                | R093092 | CABDF10 |
|                | R093061 | CABDF11 |
|                | R092954 | CABDF10 |
|                | R092896 | CAADF15 |
|                | R092891 | CADQF10 |
|                | R092864 | CAVEF10 |
|                | R092858 | CABDF10 |
|                | R092736 | CAADF10 |
|                | R092600 | CABDF10 |
|                | R092507 | CAADF10 |
|                | R092441 | CABDF10 |
|                | R092436 | CABDF10 |
|                | R092398 | CABDF10 |
|                | R092282 | CAVEF10 |
|                | R092277 | CABDF10 |
|                | R092259 | CABDF10 |
|                | R092243 | CABDF10 |
|                | R092173 | CAVEF10 |
|                | R092064 | CAVEF10 |
|                | R092016 | CABDF11 |
|                | R092009 | CAVEF10 |
|                | R091992 | CAVEF10 |
|                | R091930 | CAVEF10 |
|                | R091845 | CABDF10 |
|                | R091732 | CABDF10 |
|                | R091719 | CAADF10 |
|                | R091648 | CABDF10 |
|                | R091632 | CABDF10 |
|                | R091631 | CABDF10 |
|                | R091630 | CABDF10 |
|                | R091587 | CABDF10 |
|                | R091515 | CABDF10 |
|                | R091427 | CABDF10 |
|                | R091404 | CABDF10 |

| CA RS Level | Service | FMID    |
|-------------|---------|---------|
|             | R091394 | CABDF10 |
|             | R091352 | CABDF10 |
|             | R091254 | CABDF10 |
|             | R091226 | CAVEF10 |
|             | R091196 | CAADF10 |
|             | R091185 | CAADF10 |
|             | R091180 | CABDF10 |
|             | R091166 | CABDF10 |
|             | R091165 | CABDF10 |
|             | R091141 | CABDF10 |
|             | R091115 | CAVEF10 |
|             | R091079 | CABDF10 |
|             | R091015 | CABDF10 |
|             | R090950 | CAADF10 |
|             | R090903 | CABDF10 |
|             | R090854 | CAVEF10 |
|             | R090838 | CAADF10 |
|             | R090826 | CAVEF10 |
|             | R090821 | CABDF10 |
|             | R090729 | CAADF10 |
|             | R090586 | CABDF10 |
|             | R090535 | CABDF10 |
|             | R090486 | CABDF10 |
|             | R090397 | CABDF10 |
|             | R090276 | CABDF10 |
|             | R090216 | CAVEF10 |
|             | R090197 | CABDF10 |
|             | R090182 | CABDF10 |
|             | R090179 | CABDF10 |
|             | R090156 | CAVEF10 |
|             | R090155 | CAVEF10 |
|             | R090075 | CABDF10 |
|             | R090074 | CAADF10 |
|             | R090065 | CABDF10 |
|             | R090044 | CAVEF10 |
|             | R089842 | CAVEF10 |
|             | R089839 | CAVEF10 |
|             | R089666 | CABDF10 |
|             | R089559 | CABDF10 |
|             | R089521 | CAVEF10 |
|             | R089520 | CAVEF10 |
|             | R088863 | CABDF10 |
|             | R088617 | CAVEF10 |
|             | R088611 | CAVEF10 |
|             | R088550 | CAVEF10 |
|             | R088530 | CABDF10 |
|             | R088480 | CAVEF10 |

| CA RS<br>Level | Service | FMID    |
|----------------|---------|---------|
|                | R088479 | CAVEF10 |
|                | R088475 | CAVEF10 |
|                | R088469 | CABDF10 |