

Service	Description	Type
LU09808	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09809	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09810	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09811	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09812	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09813	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09814	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09815	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09816	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09817	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09818	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09819	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
LU09934	DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS	PTF
LU09935	DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS	PTF
LU09947	SOC4 WHEN CHECKING LABEL/COMMENT WITH MORE ';'	PTF
LU09969	CAS9180E MESSAGE ISSUED WHEN EXECUTING THE RECOVERY SCRIPT	PTF
LU09972	DETECTOR ABEND OC4 WHEN COLLECTING HOST VARIABLE FOR NSPS	**HIPER**
LU09979	SECURITY OR INTEGRITY PROBLEM	** PRP **
LU09980	GROUP ICL WITH GC GENERATES VIEWS NOT IN PARENT/CHILD ORDER	PTF
LU09987	RC/COMPARE SHOWS JUNK IN VERSION FIELD IF NOT SPECIFIED	PTF
LU09990	RESTORE VIRTUAL IX COMMAND LINE SUPPORT FOR PPI INDEXES	PTF
LU09993	SECURITY OR INTEGRITY PROBLEM	** PRP **
LU10003	SOC1 ABEND AND PFR0183E IN PFR REBUILD WITH PREVIEW SIMULATE	PTF
LU10016	PFR REBUILD INDEX CORRUPTS THE INDEX ON LOB TABLESPACE	PTF
LU10020	PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE	**HIPER**
LU10021	PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE	*HIP/PRP*
LU10032	MULTIPLE SOC4 IN PXMSLCC OR BAD MSDA POINTER	** PRP **
LU10036	RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES	PTF
LU10037	RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES	PTF
LU10060	PRA STRATEGY MISSING RECOVER STATEMENTS & SOC4 FROM PRA\$RSOP	PTF
LU10072	RC/MIGRATOR SYNTAX CHECKER INCORRECT FOR CREATE TABLE	PTF
LU10074	LOOP AT XMANAGER START IF CAIRIM IS UNAVAILABLE	PTF
LU10075	FUNCTION PARSER AND GENDDL FIXES	PTF
LU10079	OBSOLETE PTDB OBJECTS CLEANUP DB2 CUSTOMIZATION TASKS	PTF
LU10091	SOME MESSAGES ARE SUPPRESSED IN THE XMANAGER LOG	** PRP **
LU10118	PQC0711E MEDIA MANAGER ERROR FOR ENCRYPTED OBJECTS	PTF
LU10122	ERROR PR534E & INVALID JCL PARAMETERS IN DUAL BSDS RECOVERY	PTF
LU10134	RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT	PTF
LU10135	RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT	PTF
LU10159	EXTRA BLANK ADDED TO DATA IN QUOTES WITH EMBEDDED BLANKS	PTF
LU10167	CORRECTING PQC PERFORMANCE REGRESSION INTRODUCED BY LU06423.	PTF
LU10170	PRA PANEL PRPCTRV ERROR WHILE RECOVERING DB2 CATALOG	PTF
LU10194	INCORRECT DDL GENERATED FOR CHAR COLS WHEN DEFAULT IS X'00'	PTF
LU10196	UTILITY SORT IS NOT ACTIVATED	** PRP **
LU10197	UTILITY SORT IS NOT ACTIVATED	PTF
LU10227	RECOVERY ESTIMATOR MISESTIMATES LOGS ON DATA SHARING SYSTEMS	PTF
LU10228	MERGER MIGRATION OF PBR2 TABLESPACE TO ANOTHER PBR2	PTF

Database Management Solutions for Db2 for z/OS 20.0
CA RS 2306 Service List

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Service	Description	Type
LU10243	FIX INCONSISTENT MESSAGING IN PFR	PTF
LU10247	ZIIP CPU TIME ZEROS IN DETECTOR PLAN DISPLAY	PTF
LU10290	TS-T REPORT DOES NOT WORKS WELL WITH TRAILING SPACES	PTF
LU10313	Continuous Delivery Level Set 20.0.08	PTF
The CA RS 2306 service count for this release is 51		

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CAHOK00

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FMID	Service	Description	Type
CAHOK00	LU09808	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

FMID	Service	Description	Type
CINSK00	LU09809	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
	LU09934	DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS	PTF
	LU09947	SOC4 WHEN CHECKING LABEL/COMMENT WITH MORE ';'	PTF
	LU09969	CAS9180E MESSAGE ISSUED WHEN EXECUTING THE RECOVERY SCRIPT	PTF
	LU09979	SECURITY OR INTEGRITY PROBLEM	** PRP **
	LU09980	GROUP ICL WITH GC GENERATES VIEWS NOT IN PARENT/CHILD ORDER	PTF
	LU09987	RC/COMPARE SHOWS JUNK IN VERSION FIELD IF NOT SPECIFIED	PTF
	LU09993	SECURITY OR INTEGRITY PROBLEM	** PRP **
	LU10072	RC/MIGRATOR SYNTAX CHECKER INCORRECT FOR CREATE TABLE	PTF
	LU10074	LOOP AT XMANAGER START IF CAIRIM IS UNAVAILABLE	PTF
	LU10079	OBSOLETE PTDB OBJECTS CLEANUP DB2 CUSTOMIZATION TASKS	PTF
	LU10091	SOME MESSAGES ARE SUPPRESSED IN THE XMANAGER LOG	** PRP **
	LU10118	PQC0711E MEDIA MANAGER ERROR FOR ENCRYPTED OBJECTS	PTF
	LU10134	RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT	PTF
	LU10159	EXTRA BLANK ADDED TO DATA IN QUOTES WITH EMBEDDED BLANKS	PTF
	LU10227	RECOVERY ESTIMATOR MISESTIMATES LOGS ON DATA SHARING SYSTEMS	PTF
	LU10228	MERGER MIGRATION OF PBR2 TABLESPACE TO ANOTHER PBR2	PTF
	LU10313	Continuous Delivery Level Set 20.0.08	PTF
The CA RS 2306 service count for this FMID is 18			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for COFSK00

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FMID	Service	Description	Type
COFSK00	LU10075	FUNCTION PARSER AND GENDDL FIXES	PTF
	LU10194	INCORRECT DDL GENERATED FOR CHAR COLS WHEN DEFAULT IS X'00'	PTF
The CA RS 2306 service count for this FMID is 2			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CPDAK00

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FMID	Service	Description	Type
CPDAK00	LU09810	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CPDTK00

FMID	Service	Description	Type
CPDTK00	LU09972	DETECTOR ABEND 0C4 WHEN COLLECTING HOST VARIABLE FOR NSPS	**HIPER**
	LU10020	PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE	**HIPER**
	LU10032	MULTIPLE SOC4 IN PXMSLCC OR BAD MSDA POINTER	** PRP **
	LU10247	ZIIP CPU TIME ZEROS IN DETECTOR PLAN DISPLAY	PTF
The CA RS 2306 service count for this FMID is 4			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CPFLK00

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FMID	Service	Description	Type
CPFLK00	LU10036	RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES	PTF
	LU10196	UTILITY SORT IS NOT ACTIVATED	** PRP **
The CA RS 2306 service count for this FMID is 2			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CPLAK00

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FMID	Service	Description	Type
CPLAK00	LU09811	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CPPAK00

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FMID	Service	Description	Type
CPPAK00	LU09812	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
	LU09935	DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS	PTF
	LU09990	RESTORE VIRTUAL IX COMMAND LINE SUPPORT FOR PPI INDEXES	PTF
The CA RS 2306 service count for this FMID is 3			

FMID	Service	Description	Type
CPRAK00	LU09813	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
	LU10060	PRA STRATEGY MISSING RECOVER STATEMENTS & SOC4 FROM PRA\$RSOP	PTF
	LU10122	ERROR PR534E & INVALID JCL PARAMETERS IN DUAL BSDS RECOVERY	PTF
	LU10170	PRA PANEL PRPCTRV ERROR WHILE RECOVERING DB2 CATALOG	PTF
The CA RS 2306 service count for this FMID is 4			

FMID	Service	Description	Type
CPRFK00	LU09814	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

FMID	Service	Description	Type
CPSAK00	LU10021	PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE	*HIP/PRP*
The CA RS 2306 service count for this FMID is 1			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CPUTK00

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FMID	Service	Description	Type
CPUTK00	LU09815	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
	LU10037	RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES	PTF
	LU10197	UTILITY SORT IS NOT ACTIVATED	PTF
The CA RS 2306 service count for this FMID is 3			

FMID	Service	Description	Type
CRCMK00	LU10135	RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT	PTF
The CA RS 2306 service count for this FMID is 1			

FMID	Service	Description	Type
CRCQK00	LU09816	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
	LU10290	TS-T REPORT DOES NOT WORKS WELL WITH TRAILING SPACES	PTF
The CA RS 2306 service count for this FMID is 2			

Database Management Solutions for Db2 for z/OS
CA RS 2306 Service List for CRC SK00

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FMID	Service	Description	Type
CRC SK00	LU09817	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

FMID	Service	Description	Type
CRCUK00	LU09818	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

FMID	Service	Description	Type
CRCXK00	LU09819	CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES	PTF
The CA RS 2306 service count for this FMID is 1			

FMID	Service	Description	Type
CUGRK00	LU10003	SOC1 ABEND AND PFR0183E IN PFR REBUILD WITH PREVIEW SIMULATE	PTF
	LU10016	PFR REBUILD INDEX CORRUPTS THE INDEX ON LOB TABLESPACE	PTF
	LU10167	CORRECTING PQC PERFORMANCE REGRESSION INTRODUCED BY LU06423.	PTF
	LU10243	FIX INCONSISTENT MESSAGING IN PFR	PTF
The CA RS 2306 service count for this FMID is 4			

Service	Details																																						
LU09808	LU09808 M.C.S. ENTRIES = ++PTF (LU09808) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CAHOK00) PRE (LU04409 LU08049) SUP (LT07871 LT09354 LT09808) ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRC SK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09808) SYSTEM FMID(CAHOK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (<pre> +-----+ Endeavor Interface for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endeavor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

[illegible]

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09808) SYSTEM FMID(CAHOK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Endevor Interface for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09809	LU09809 M.C.S. ENTRIES = ++PTF (LU09809) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CINSK00) PRE (LU00446 LU00914 LU02345 LU03657 LU03838 LU04149 LU04412 LU04463 LU04573 LU04874 LU04950 LU05629 LU05739 LU05886 LU06910 LU07836 LU08051 LU08696 LU08737 LU09207 LU09642 R097704 R099553 S001396 S004455 S004718 S006113 S007379 S007807 S008128 S008859 S009860 S011866 S011966 S012067 S012361 S012904 S012933 S013193 S014832) SUP (LT00359 LT01265 LT09153 LT09355 LT09455 LT09809 LU00359 LU01265 LU09153 LU09455 S009857 ST09857) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815).	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
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Service	Details
	PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new

Service	Details
	jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMPD panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBCKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).). ++HOLD (LU09809) SYSTEM FMID(CINSK00) REASON (DB2BIND) DATE (23124) COMMENT (+-----+ Db2 Common Components Version 20.0 +-----+

Service	Details
	<pre> SEQUENCE After Apply +-----+-----+ PURPOSE Bind Plans and Packages +-----+-----+ USERS AFFECTED All Users +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09809) SYSTEM FMID(CINSK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Db2 Common Components Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on </pre>

Service	Details
	https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.).

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LU09810	LU09810 M.C.S. ENTRIES = ++PTF (LU09810) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CPDAK00) PRE (LU00146 LU00314 LU04415 LU07486 LU08053 S014175) SUP (LT09356 LT09810) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRCSK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09810) SYSTEM FMID(CPDAK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (<pre> +-----+ Database Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

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Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09810) SYSTEM FMID(CPDAK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Database Analyzer for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

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	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09811	LU09811 M.C.S. ENTRIES = ++PTF (LU09811) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CPLAK00) PRE (LU04419 R097709 R099559 S000975 S015064) SUP (LT09357 LT09811) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRC SK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09811) SYSTEM FMID(CPLAK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (<pre> +-----+ Log Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

[illegible]

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09811) SYSTEM FMID(CPLAK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Log Analyzer for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09812	LU09812 M.C.S. ENTRIES = ++PTF (LU09812) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CPPAK00) PRE (LU00440 LU01892 LU03338 LU04420 LU08057 S014400) SUP (LT09358 LT09812) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRCSK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09812) SYSTEM FMID(CPPAK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (<pre> +-----+ Plan Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): <pre>ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class></pre> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

Service	Details
	persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMPD panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBCKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).). ++HOLD (LU09812) SYSTEM FMID(CPPAK00) REASON (DB2BIND) DATE (23124) COMMENT (+-----+ Plan Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Bind Plans and Packages +-----+ USERS AFFECTED All Users

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09812) SYSTEM FMID(CPPAK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Plan Analyzer for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09813	LU09813 M.C.S. ENTRIES = ++PTF (LU09813) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CPRAK00) PRE (LU04421 LU08058) SUP (LT09359 LT09813) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRC SK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09813) SYSTEM FMID(CPRAK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (+-----+ Recovery Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): <pre>ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class></pre> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

Service	Details
	persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMPD panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBCKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).). ++HOLD (LU09813) SYSTEM FMID(CPRAK00) REASON (DB2BIND) DATE (23124) COMMENT (+-----+ Recovery Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Bind Plans and Packages +-----+ USERS AFFECTED All Users

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09813) SYSTEM FMID(CPRAK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Recovery Analyzer for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09814	LU09814 M.C.S. ENTRIES = ++PTF (LU09814) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CPRFK00) PRE (LU04422 R099195) SUP (LT09360 LT09814) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRCSK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09814) SYSTEM FMID(CPRFK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (<pre> +-----+ Compile/PRF Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): <pre>ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class></pre> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

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Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09814) SYSTEM FMID(CPRFK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Compile/PRF Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

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	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09815	LU09815 M.C.S. ENTRIES = ++PTF (LU09815) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CPUTK00) PRE (LU04427 S001659 S001711 S003815 S008732) SUP (LT09361 LT09815) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRCSK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09815) SYSTEM FMID(CPUTK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (+-----+ Utilities Common Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): <pre>ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class></pre> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

Service	Details
	persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMPD panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBCKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).). ++HOLD (LU09815) SYSTEM FMID(CPUTK00) REASON (DB2BIND) DATE (23124) COMMENT (+-----+ Utilities Common Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Bind Plans and Packages +-----+ USERS AFFECTED All Users

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09815) SYSTEM FMID(CPUTK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ Utilities Common Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09816	LU09816 M.C.S. ENTRIES = ++PTF (LU09816) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CRCQK00) PRE (LU04430 LU05036) SUP (LT09362 LT09816) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCSK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09816) SYSTEM FMID(CRCQK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	COMMENT (<pre> +-----+ RC/Query for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

Service	Details
	persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMP panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBCKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).). ++HOLD (LU09816) SYSTEM FMID(CRCQK00) REASON (DB2BIND) DATE (23124) COMMENT (+-----+ RC/Query for Db2 for z/OS Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Bind Plans and Packages +-----+ USERS AFFECTED All Users)

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09816) SYSTEM FMID(CRCQK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ RC/Query for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09817	LU09817 M.C.S. ENTRIES = ++PTF (LU09817) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CRCSK00) PRE (LU04431) SUP (LT09363 LT09817) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRCUK00) REQ(LU09818). ++IF FMID(CRCXK00) REQ(LU09819). ++HOLD (LU09817) SYSTEM FMID(CRCSK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
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Service	Details
	<pre> COMMENT (+-----+ RC/Secure for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for z/OS AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): <pre>ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class></pre> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

Service	Details
	persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMPD panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBCKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).). ++HOLD (LU09817) SYSTEM FMID(CRCSK00) REASON (DB2BIND) DATE (23124) COMMENT (+-----+ RC/Secure for Db2 for z/OS Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Bind Plans and Packages +-----+ USERS AFFECTED All Users

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09817) SYSTEM FMID(CRCSK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ RC/Secure for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
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Service	Details																																						
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	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

Service	Details
	persistent volumes and not on volumes that may soon be deleted. 2. To avoid duplicate data set errors, use the following 'Dataset Name Mask' on the INSCOMP panel before creating the JCL for the task ssid0000 (Compare Db2 Objects): %USERID..%DSNQUAL2..%DSNQUAL3..%DTQUAL This mask can help you avoid duplicate named data sets from multiple runs. Duplicate data sets may result in the following errors: BPA0002E: UNABLE TO DYNAMICALLY ALLOCATE FILE - RETURN CODE 000970C DSNU407I DSNUBACKB - DATA SET ALREADY USED FOR PREVIOUS IMAGE COPY 3. Remove data that you no longer need from the product tables. For example: - For Log Maintenance, select option W on the Database Management Solutions for Db2 for z/OS main menu and then option 2 (Backup/Purge Log Records). - For Database Analyzer logs, follow the recommendations in the Database Analyzer for Db2 for z/OS product documentation. 4. Run RUNSTATS by executing the task ssidSTAT (Determine Db2 Object Sizes). Note: The best practice is to avoid using the Recover option in the conversion process. The Recover option is based on UNLOAD/LOAD and may affect the availability of objects even in online migration. If you encounter a problem, do not attempt to convert already migrated objects to their prior state. Try to fix the problem and continue with the conversion. For assistance, contact Broadcom Support. After completing the task ssid0000, the following steps are required 1. Before you run the task ssid0001 (Create Required Db2 Objects), check the MSGFILE DD in the job log of the task ssid0000. If it contains RMA184W warning messages, contact Broadcom Support immediately. 2. To complete the conversion, run the task ssid0001 (Create Required Db2 Objects). Note: The source multi-table tablespaces remain empty except for the three Log Analyzer tablespaces (PTITSLA6, PTITSLA7, and PTITSLA9). These tablespaces may contain obsolete tables. A future PTF will provide cleanup of obsolete objects in PTDB. 3. After the conversion, you must rebind all plans and packages that are required to execute the Database Management Solutions for Db2. Run the Task ssid0002 (Bind Product Packages and Plans), Option 0 (Bind ALL Product packages and plans).) . ++HOLD (LUO9818) SYSTEM FMID(CRCUK00) REASON (DB2BIND) DATE (23124) COMMENT (
	+-----+ RC/Update for Db2 for z/OS Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Bind Plans and Packages +-----+ USERS AFFECTED All Users

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09818) SYSTEM FMID(CRCUK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ RC/Update for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details																																						
LU09819	LU09819 M.C.S. ENTRIES = ++PTF (LU09819) REWORK(2023124) CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS product segmented tablespaces are converted to partition-by-growth Universal Tablespaces (UTS). This enhancement includes the following updates: 1. The post-install compare job ssid0000 has been enhanced with new TSALT and TSREORG steps to convert the Log and Batch processor tablespaces to UTS. 2. The segmented tablespaces in product DDL skeletons have been updated to UTS. PRODUCT(S) AFFECTED: <table> <tr> <td>Database Management Solutions for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>DB2 Common Components</td><td>Version 20.0</td></tr> <tr> <td>Report Facility</td><td>Version 20.0</td></tr> <tr> <td>RI Manager</td><td>Version 20.0</td></tr> <tr> <td>Statistics Manager</td><td>Version 20.0</td></tr> <tr> <td>Space Calculator</td><td>Version 20.0</td></tr> <tr> <td>Endevor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Query for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Update for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Extract for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>RC/Secure for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Batch Processor for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Object Framework Services for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Log Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Plan Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Database Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Recovery Analyzer for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>Utilities Common</td><td>Version 20.0</td></tr> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> </table> Related Problem: INS 14484 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02557-D200 DESC(CONVERSION OF PRODUCT TABLESPACES TO UNIVERSAL TABLESPACES). ++VER (Z038) FMID (CRCXK00) PRE (LU04433 LU08064) SUP (LT07877 LT09365 LT09819) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CINSK00) REQ(LU05886 LU06910 LU09642 LU09809). ++IF FMID(CPDAK00) REQ(LU09810). ++IF FMID(CPLAK00) REQ(LU09811). ++IF FMID(CPPAK00) REQ(LU09812). ++IF FMID(CPRAK00) REQ(LU09813). ++IF FMID(CPRFK00) REQ(LU09814). ++IF FMID(CPUTK00) REQ(LU09815). ++IF FMID(CRCQK00) REQ(LU09816). ++IF FMID(CRCSK00) REQ(LU09817). ++IF FMID(CRCUK00) REQ(LU09818). ++HOLD (LU09819) SYSTEM FMID(CRCXK00) REASON (ACTION) DATE (23124)	Database Management Solutions for Db2 for z/OS	Version 20.0	DB2 Common Components	Version 20.0	Report Facility	Version 20.0	RI Manager	Version 20.0	Statistics Manager	Version 20.0	Space Calculator	Version 20.0	Endevor for Db2 for z/OS	Version 20.0	RC/Query for Db2 for z/OS	Version 20.0	RC/Update for Db2 for z/OS	Version 20.0	RC/Extract for Db2 for z/OS	Version 20.0	RC/Secure for Db2 for z/OS	Version 20.0	Batch Processor for Db2 for z/OS	Version 20.0	Object Framework Services for Db2 for z/OS	Version 20.0	Log Analyzer for Db2 for z/OS	Version 20.0	Plan Analyzer for Db2 for z/OS	Version 20.0	Database Analyzer for Db2 for z/OS	Version 20.0	Recovery Analyzer for Db2 for z/OS	Version 20.0	Utilities Common	Version 20.0	Utility General Recovery	Version 20.0
Database Management Solutions for Db2 for z/OS	Version 20.0																																						
DB2 Common Components	Version 20.0																																						
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Endevor for Db2 for z/OS	Version 20.0																																						
RC/Query for Db2 for z/OS	Version 20.0																																						
RC/Update for Db2 for z/OS	Version 20.0																																						
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Recovery Analyzer for Db2 for z/OS	Version 20.0																																						
Utilities Common	Version 20.0																																						
Utility General Recovery	Version 20.0																																						

Service	Details
	COMMENT (<pre> +-----+ RC/Extract for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Both before Apply and after Apply +-----+ PURPOSE Conversion of Database Management Solutions for Db2 for z/OS segmented tablespaces to partition-by-growth universal tablespaces. +-----+ USERS All users of Database Management Solutions for DB2 for AFFECTED z/OS Version 20.0 +-----+ KNOWLEDGE Db2 Administration REQUIRED Db2 Storage Administration Database Management Solutions for Db2 for z/OS Db2 Tools Post Install Tailoring +-----+ ACCESS Db2 Admin REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** The conversion process for single-table segmented tablespaces uses the ALTER TABLESPACE MAXPARTITIONS command, followed by a SHRLEVEL CHANGE REORG. The conversion process for multi-table segmented tablespaces depends on the currently activated Db2 function level: - For sites with function level below V12R1M508, the conversion uses UNLOAD/DROP/CREATE/LOAD. - For sites with function level V12R1M508 or higher, the conversion uses ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. If your activated Db2 function level is below V12R1M508, the following multi-table tablespaces are migrated offline using UNLOAD/DROP/CREATE/LOAD: General Facilities Objects: PTDB.PTITSDAT EQF PTDB.PTITSTXT EQF Database Analyzer Objects: PTDB.PTTSROS7 RTOS EQF online extract definition processing support PTDB.PTTSRCR7 Procedures PTDB.PTTSREP7 Execution procedures PTDB.PTRALGT7 Catalog statistics Endevor Interface for Db2 Objects: PTDB.PTITSE21 Plan/Package footprint Log Analyzer Objects: PTDB.PTSMATS2 SMF audit reporting PTDB.PTITSLA6 Dropped object tracking PTDB.PTITSLA7 Dropped object tracking PTDB.PTITSLA9 Dropped object tracking Plan Analyzer Objects: PTDB.PTITSPA9 Rules </pre>

Service	Details
	PTDB.PTITSSE1 SQL-Ease PTDB.PTITSPSE Statistics Manager strategies RC/Extract Objects: PTDB.PTITSRCX Registry definition RC/Query Objects: PTDB.PTIRCQTS Customized report feature RC/Update Objects: PTDB.PTITSRU2 RI/Editor LINK command dynamic RI Recovery Analyzer Objects: PTDB.PTITSRAJ Reporting services information Notes: - The actual list depends on the products installed at your site. - If your activated Db2 function level is V12R1M508 or higher, the tablespaces are migrated online using the ALTER TABLESPACE MOVE TABLE command, followed by a SHRLEVEL CHANGE REORG. Online migration ensures uninterrupted availability of the products. - Offline migration does not affect Detector (PDT), Subsystem Analyzer (PSA), SYSVIEW for Db2 (IDB2), and their data collectors. The following figures show the overall impact: 120 single-table segmented tablespaces updated 18 multi-table segmented tablespaces updated 53 new PBG UTS created Note: These figures are based on all products in Database Management Solutions for Db2 for z/OS. The actual number depends on the products installed at your site. Before migration, complete the following steps 1. Ensure that Extended Addressability (EA) is enabled for PTDB objects. If not, set a proper SMS ACS configuration (recommended) or ask your Storage Administrator for a proper SMS data class to be used with the storage group (PTSG). Workaround: Alter the PTSG storage group with EA-enabled data class before you run the task ssid0000 (Compare Db2 Objects): ALTER STOGROUP PTSG DATACLAS <your-EA-enabled-data-class> Note: If EA is not enabled: - REORG TABLESPACE fails with reason code 00D70008. - During the new installation, tablespaces are created with DEFINE NO. With the first insert, Db2 attempts to create a VSAM data set, and this attempt fails with reason code 00D70008. 2. Ensure that your products are current on maintenance and you applied all prior schema changes to the Database Management Solutions for Db2 for z/OS database (PTDB). 3. (Recommended) Select option 0 (Settings), option 2 (Products) on the Post-Install Tailoring panel to select all your installed products. 4. This PTF modifies JCL statements for tasks ssid0000 (Compare Db2 Objects) and ssid0001 (Create Required Db2 Objects). To generate new jobs for these tasks, use the Post-Install Tailoring panels. Follow the updated instructions in the jobs. Before you run the task ssid0000, the following steps are recommended 1. To prevent data loss, ensure that the UNLOAD data sets reside on

[illegible]

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. Option '0' (Bind ALL Product packages and plans) should be used. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU09819) SYSTEM FMID(CRCXK00) REASON (DB2DDL) DATE (23124) COMMENT (+-----+-----+ RC/Extract for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Alter Db2 Tools objects +-----+-----+ USERS AFFECTED All Users. +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. Install SYSADM, SYSADM or DBADM on PTDB. +-----+-----+ ***** * STEPS TO PERFORM * ***** Db2 objects must be compared/alterd and a Bind Replace performed as part of this maintenance. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the following tasks using the post-install tailoring options: 1. Compare Db2 Objects 2. Create Required Db2 Objects 3. Bind Product Packages and Plans IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the </pre>

Service	Details
	BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details									
LU09934	LU09934 M.C.S. ENTRIES = ++PTF (LU09934) REWORK(2023124)									
	DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS									
	PROBLEM DESCRIPTION:									
	In Plan Analyzer for Db2 for z/OS (PPA), the long dependency report in explain services does not show the version string for advanced triggers or the active version. Instead, they appear as duplicates.									
	SYMPTOMS:									
	The trigger TRIGGER_ADVANCE_P1 appears in the report as duplicate entries, but is really two distinct trigger versions, V1 and V2.									
	TABLESPACE L NACTIVE PTN SGSZ PGSZ									
	TABLE/ALIAS/VIEW/SYNM R EV CARD NPAGES PCTP									
	ROW PERMISSION E									
	INDEX C U 1ST/FULL NLEAF/DRF NLVL									
	TRIGGER TYPE TIME EVENT GRAN									

	PPDBSM3C.TSTSEG1 SEGMENT A N/A 0 4 4									
	QAPPA.TSTSEG1 * TABLE E N/A N/A N/A									
	** TABLE COLUMNS **									
	COL1 * CHAR N/A 10									
	COL2 * CHAR N N/A 10									
	COL4 * INTEGER N/A 4									
	QAPPA.TRIGGER_ADVANCE_P1 TRIGGER AFTER INSERT ROW									
	QAPPA.TRIGGER_ADVANCE_P1 TRIGGER AFTER INSERT ROW									
	IMPACT:									
	When multiple trigger versions exist, a user is unable to distinguish between the triggers and identify the active trigger version.									
	CIRCUMVENTION:									
	None.									
	PRODUCT(S) AFFECTED:									
	Plan Analyzer for Db2 for z/OS Version 20.0									
	Related Problem:									
	PPADB2 19948									
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	R02574-D200									
	DESC(DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS).									
	++VER (Z038)									
	FMID (CINSK00)									
	PRE (LU04412 LU05111 LU05312 S001396 S012650)									
SUP (LT09934)										
++IF FMID(CPPAK00) REQ(LU09935).										
++HOLD (LU09934) SYSTEM FMID(CINSK00)										
REASON (DB2BIND) DATE (23124)										
COMMENT (										
+-----+										
Db2 Common Components Version 20.0										
+-----+										
SEQUENCE After Apply										
+-----+										
PURPOSE Bind Plans and Packages										
+-----+										
USERS										
AFFECTED All Users										

Service	Details
	<pre> +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** DBRMs have changed as part of this maintenance. The members in the CDBASKL1 library identify the packages that must be rebound. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.).</pre>

Service

Details

LU09935

LU09935

M.C.S. ENTRIES = ++PTF (LU09935) REWORK(2023124)

DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS

PROBLEM DESCRIPTION:

In Plan Analyzer for Db2 for z/OS (PPA), the long dependency report in explain services does not show the version string for advanced triggers or the active version. Instead, they appear as duplicates.

SYMPTOMS:

The trigger TRIGGER_ADVANCE_P1 appears in the report as duplicate entries, but is really two distinct trigger versions, V1 and V2.

TABLESPACE		L	NACTIVE	PTN	SGSZ	PGSZ
TABLE/ALIAS/VIEW/SYNM	R	EV	CARD	NPAGES		PCTP
ROW PERMISSION		E				
INDEX	C	U	1ST/FULL	NLEAF/DRF		NLVL
TRIGGER	TYPE		TIME	EVENT		GRAN

PPDBSM3C.TSTSEG1	SEGMENT	A	N/A	0	4	4
QAPPA.TSTSEG1	* TABLE	E	N/A	N/A		N/A

** TABLE COLUMNS **

COL1	* CHAR	N/A	10		
COL2	* CHAR	N	N/A	10	
COL4	* INTEGER	N/A	4		

QAPPA.TRIGGER_ADVANCE_P1	TRIGGER	AFTER	INSERT		ROW
QAPPA.TRIGGER_ADVANCE_P1	TRIGGER	AFTER	INSERT		ROW

IMPACT:

When multiple trigger versions exist, a user is unable to distinguish between the triggers and identify the active trigger version.

CIRCUMVENTION:

None.

PRODUCT(S) AFFECTED:

Plan Analyzer for Db2 for z/OS

Version 20.0

Related Problem:

PPADB2 19948

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DESC(DEPENDENCY REPORT MISSING VERSION FOR ADVANCED TRIGGERS).

++VER (Z038)

FMID (CPPAK00)

PRE (LU04420 LU05313)

SUP (LT09935)

++IF FMID(CINSK00) REQ(LU09934).

Service	Details
LU09947	LU09947 M.C.S. ENTRIES = ++PTF (LU09947) REWORK(2023121) SOC4 WHEN CHECKING LABEL/COMMENT WITH MORE ';'. PROBLEM DESCRIPTION: The RC/Migrator for Db2 for z/OS (RCM) Syntax Checker ends with a SOC4 abend when checking LABEL ON or COMMENT ON DDL ending with more than one SQL terminator. Also, Syntax checking CREATE DDL in batch with multiple SQL terminator, duplicate CREATE DDL will be generated. SYMPTOMS: The following abend occurs: SYSTEM COMPLETION CODE=0C4 REASON CODE=00000004 TIME=14.49.27 SEQ=57677 CPU=0000 ASID=0040 PSW AT TIME OF ERROR 078D0000 8005B36E ILC 4 INTC 04 ACTIVE MODULE ADDRESS=00000000_00049000 OFFSET=0001236E NAME=CSLVC31R DATA AT PSW 0005B368 - 703CA820 0040A714 FFFED203 AR/GR 0: 009FC6D4/15E493C4 1: 00000000/00000008 2: 00000000/000000E0 3: 00000000/00000008 4: 00000000/000000E0 5: 00000000/0000000F 6: 00000000/1561F3BC 7: 00000000/1561F428 8: 00000000/15E493AC 9: 00000000/15615FF8 A: 00000000/1561F1F0 B: 00000000/15A0CC58 C: 00000000/80058C40 D: 00000000/1561F2B8 E: 00000000/80059B94 F: 00000000/00000002 IMPACT: Users are not able to syntax check the DDL. CIRCUMVENTION: Please remove all the superfluous SQL terminators and run the syntax checker again. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 20186 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02577-D200 DESC(SOC4 WHEN CHECKING LABEL/COMMENT WITH MORE ';'). ++VER (Z038) FMID (CINSK00) PRE (LU00446 LU03657 LU04149 LU04412 LU04950 LU05886 LU09207 LU09296 R099553 S000016 S001396 S004455 S007807 S008128 S009105 S011866 S011966 S012361 S014832) SUP (LT02166 LT09947 LU02166) CSECT (RMA#MSYN,RMA\$CVT,#@XFCALN,@#EABLDL) .

Service	Details
LU09969	LU09969 M.C.S. ENTRIES = ++PTF (LU09969) REWORK(2023123) CAS9180E MESSAGE ISSUED WHEN EXECUTING THE RECOVERY SCRIPT PROBLEM DESCRIPTION: When executing the recovery script generated by RC/Migrator for DB2 for z/OS (RCM), the execution incorrectly writes the message CAS9180E to the SYSLOG if the user does not have access to RC/UPDATE. SYMPTOMS: The following message appears in the SYSLOG: CAS9180E - CPU 05C198 Requires a LMP key to run Prod (RU) IMPACT: None. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 20276 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02579-D200 DESC(CAS9180E MESSAGE ISSUED WHEN EXECUTING THE RECOVERY SCRIPT). ++VER (Z038) FMID (CINSK00) PRE (LU00446 LU03657 LU04149 LU04412 LU04930 LU04950 LU05629 LU05739 LU05886 LU07836 LU08696 LU09140 LU09207 LU09296 R099553 S000016 S004455 S004718 S007379 S008128 S011866 S011966 S012361 S012751 S012933) SUP (LT04376 LT09969 LU04376)

Service	Details
LU09972	LU09972 M.C.S. ENTRIES = ++PTF (LU09972) REWORK(2023122) DETECTOR ABEND OC4 WHEN COLLECTING HOST VARIABLE FOR NSPS PROBLEM DESCRIPTION: Detector for Db2 for z/OS (PDT) may abend with a S0c4 when collecting host variables for native SQL stored procedures. SYMPTOMS: Detector abends with a S0c4 and the following dump information: DETECTOR 20.0 DIAG/DUMP ABEND=S0C4 MODULE=DT\$DIU PDT0185 ABEND=S0C4 MODULE=DT\$DIU OFFSET=00002DD8 DB2=121 IMPACT: Collection terminates. CIRCUMVENTION: On the DETECTOR Start Collection display, set host variables=N so that the host variable process is not performed. PRODUCT(S) AFFECTED: Detector for Db2 for z/OS Version 20.0 Related Problem: PDT 20199 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02580-D200 DESC(DETECTOR ABEND OC4 WHEN COLLECTING HOST VARIABLE FOR NSPS). ++VER (Z038) FMID (CPDTK00) PRE (LU00402 LU00549 LU01002 LU01542 LU04231 LU04263 LU04416 LU05503 LU05823 LU06048 LU06112 LU08863 LU09754 R098429 R099556 S001400 S004458 S006116 S006334 S006865 S007810 S010908 S011694 S011983 S012538 S012921 S013887 S015395) SUP (LT09972 S009601 ST09601) ++HOLD (LU09972) SYSTEM FMID(CPDTK00) REASON (RESTART) DATE (23122) COMMENT (<pre> +-----+ Detector for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE Before Apply +-----+-----+ PURPOSE Avoidance of module mismatch related errors in an Xmanager +-----+-----+ USERS Collections of Db2 statistics via Detector or Subsystem AFFECTED Analyzer. Db2 subsystems that have active collections. +-----+-----+ KNOWLEDGE 1. SMP/E REQUIRED 2. z/OS System Programming 3. Db2 Tools Installation and Maintenance procedures. +-----+-----+ ACCESS 1. Product runtime libraries. REQUIRED +-----+-----+ ***** * STEPS TO PERFORM * ***** </pre>

Service	Details
	To implement the PTF: 1. Stop product collections. 2. Stop the Xmanager task. 3. Update the runtime library. 4. Restart the Xmanager task. Important! Please do not apply maintenance to the Xmanager runtime libraries with Xmanager active as it may result in a discrepancy between dynamically loaded components and statically loaded components. This may result in unpredictable behavior with Db2 Tools and/or may compromise the operating system/Db2 including possible failures.).

Service	Details
LU09979	LU09979 M.C.S. ENTRIES = ++PTF (LU09979) REWORK(2023125) The following items are included in this solution: 1. SECURITY OR INTEGRITY PROBLEM 2. INFRASTRUCTURE FOR FUTURE ENHANCEMENT ===== SECURITY OR INTEGRITY PROBLEM PROBLEM DESCRIPTION: Security or Integrity Problem. For more details access Security Advisories using the following URL: support.broadcom.com/security-advisory/security-advisories-list.html Broadcom recommends that you subscribe to notifications for Security Advisories for the associated products that you support in your organization. Please use the following URL to register for proactive notifications: https://support.broadcom.com/user/notifications.html SYMPTOMS: N/A IMPACT: Security or Integrity Problem. CIRCUMVENTION: N/A PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: PXM 20382 ===== INFRASTRUCTURE FOR FUTURE ENHANCEMENT ENHANCEMENT DESCRIPTION: This enhancement consists of infrastructure updates that are needed for a planned architectural enhancement. When the architectural enhancement is ready for release, additional information will be provided. PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: PXM 20317 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02581-D200 DESC(SECURITY OR INTEGRITY PROBLEM) . ++VER (Z038) FMID (CINSK00) PRE (LU01978 LU04412 LU04452 R099979 S011674 S013717 S014298 S014756) SUP (BS13717 LT09979 ST14233 ST14237 ST14239) ++HOLD (LU09979) SYSTEM FMID(CINSK00) REASON (RESTART) DATE (23125) COMMENT (+-----+ Db2 Common Components Version 20.0 +-----+ SEQUENCE Before Apply +-----+ PURPOSE Avoidance of module mismatch related errors in an Xmanager

Service	Details
	<pre> +-----+-----+ USERS Collections of Db2 statistics via Detector or Subsystem AFFECTED Analyzer. Db2 subsystems that have active collections. +-----+-----+ KNOWLEDGE 1. SMP/E REQUIRED 2. z/OS System Programming 3. Db2 Tools Installation and Maintenance procedures. +-----+-----+ ACCESS 1. Product runtime libraries. REQUIRED +-----+-----+ ***** * STEPS TO PERFORM * ***** To implement the PTF: 1. Stop product collections. 2. Stop the Xmanager task. 3. Update the runtime library. 4. Restart the Xmanager task. Important! Please do not apply maintenance to the Xmanager runtime libraries with Xmanager active as it may result in a discrepancy between dynamically loaded components and statically loaded components. This may result in unpredictable behavior with Db2 Tools and/or may compromise the operating system/Db2 including possible failures.).</pre>

Service	Details
LU09980	LU09980 M.C.S. ENTRIES = ++PTF (LU09980) REWORK(2023123) GROUP ICL WITH GC GENERATES VIEWS NOT IN PARENT/CHILD ORDER PROBLEM DESCRIPTION: In CA RC/Migrator for DB2 for z/OS (RCM), the group ICL analysis with global changes may generate view DDL in the wrong sequence if the following conditions are true: 1) The ICL is generated from a compare strategy where views are paired and new views are created. 2) The paired view is recreated using the newly created views. SYMPTOMS: If the analysis script is executed, the child view will fail with an SQLCODE -204 and the following error: DSNT408I SQLCODE = -204, ERROR: <creator>.<parent-view name> IS AN UNDEFINED NAME IMPACT: The users will not be able to create the views generated by group ICL with global changes. The views are not in parent/child order. CIRCUMVENTION: Analyze the strategy with global change. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 20145 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02582-D200 DESC(GROUP ICL WITH GC GENERATES VIEWS NOT IN PARENT/CHILD ORDER). ++VER (Z038) FMID (CINSK00) PRE (LU03657 LU04412 LU05886 LU08696 S004718) SUP (LT09980)

Service	Details
LU09987	LU09987 M.C.S. ENTRIES = ++PTF (LU09987) REWORK(2023123) RC/COMPARE SHOWS JUNK IN VERSION FIELD IF NOT SPECIFIED PROBLEM DESCRIPTION: For RC/Compare junk is shown for version if not specified for the PROCEDURE (SRCPRVR/TRGPRVR) or FUNCTION (SRCUFVR/TRGUFVR) masks. SYMPTOMS: RC/Migrator Analysis report section "AUTOMAPPING MASKS" VERSION fields for PROCEDURE and FUNCTION may contain junk. IMPACT: None CIRCUMVENTION: None PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 19950 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02584-D200 DESC(RC/COMPARE SHOWS JUNK IN VERSION FIELD IF NOT SPECIFIED). ++VER (Z038) FMID (CINSK00) PRE (LU00446 LU03657 LU04149 LU04412 LU05886 LU06576 LU07268 LU08696 R097704 S001396 S004718 S006113 S007379 S009105 S011966 S012361 S012933 S014832 S015804) SUP (LT09709 LT09987)

Service	Details																		
LU09990	M.C.S. ENTRIES = ++PTF (LU09990) REWORK(2023122) RESTORE VIRTUAL IX COMMAND LINE SUPPORT FOR PPI INDEXES PROBLEM DESCRIPTION: In Plan Analyzer for Db2 for z/OS (PPA), the Virtual Index Maintenance disabled the command line for PPI (partitioned partitioning index), due to an incorrect conclusion regarding column INDEXTYPE in table DSN_VIRTUAL_INDEXES for a virtual drop index. The column is not applicable when the Db2 optimizer applies a virtual drop index during an explain. SYMPTOMS: A command line is not present for PPI indexes in PPA Virtual Index maintenance as indicated by index IP3PBR03F2. Table Index <table><tr><th>Cmd</th><th>Column</th><th>Creator</th><th>Type</th><th>Mode</th><th>Enable</th></tr><tr><td>___</td><td>TP3PBR03</td><td>ADUSR01</td><td>Table</td><td></td><td></td></tr><tr><td>___</td><td>IP3PBR03F1</td><td>ADUSR01</td><td>Type-2</td><td>DROP</td><td>YES</td></tr></table> IP3PBR03F2 ADUSR01 PPI IMPACT: A user is unable to virtually drop a PPI index in PPA Virtual Index Maintenance. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Plan Analyzer for Db2 for z/OS Version 20.0 Related Problem: PPADB2 20310 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02585-D200 DESC(RESTORE VIRTUAL IX COMMAND LINE SUPPORT FOR PPI INDEXES). ++VER (Z038) FMID (CPPAK00) PRE (LU00440 LU00646 LU04420 R096584 S001404) SUP (LT09990)	Cmd	Column	Creator	Type	Mode	Enable	___	TP3PBR03	ADUSR01	Table			___	IP3PBR03F1	ADUSR01	Type-2	DROP	YES
Cmd	Column	Creator	Type	Mode	Enable														
___	TP3PBR03	ADUSR01	Table																
___	IP3PBR03F1	ADUSR01	Type-2	DROP	YES														

Service	Details
LU09993	LU09993 M.C.S. ENTRIES = ++PTF (LU09993) REWORK(2023122) The following items are included in this solution: 1. SECURITY OR INTEGRITY PROBLEM 2. DBM DS FEATURE REGISTRATION 3. DBM DS REST API AND TEMPLATE FIXES ===== SECURITY OR INTEGRITY PROBLEM PROBLEM DESCRIPTION: Security or Integrity Problem. For more details access Security Advisories using the following URL: support.broadcom.com/security-advisory/security-advisories-list.html Broadcom recommends that you subscribe to notifications for Security Advisories for the associated products that you support in your organization. Please use the following URL to register for proactive notifications: https://support.broadcom.com/user/notifications.html SYMPTOMS: N/A IMPACT: Security or Integrity Problem. CIRCUMVENTION: N/A PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: INS 20334 ===== DBM DS FEATURE REGISTRATION ENHANCEMENT DESCRIPTION: The DBM Data Service (DBM DS) component of the Database Management Solutions for Db2 for z/OS has been enhanced to support feature registration for associated product services. PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: INS 20303 ===== DBM DS REST API AND TEMPLATE FIXES PROBLEM DESCRIPTION: The DBM Data Service Devops REST APIs have been updated with the following enhancements and fixes. 1) The DDL Scripts that are returned by the devops/migrate endpoint now include headers and trailers by default. 2) A new parameter (noSqlId) was added to templateSettings.yaml, to suppress generation of SET CURRENT SQLID statements. 3) The RMATMDxx JCL Templates in CDBAMDL emplates for all Devops endpoints were updated to use REGION=OM in the Step card. SYMPTOMS: 1) N/A 2) N/A 3) Jobs end with RC=120 and contain S878-10 abends with incorrect REGION parameters in the Step card. IMPACT: Users of DBM DS Devops REST APIs or users of Zowe DBM for Db2 CLI

Service	Details																																	
	plugin. CIRCUMVENTION: 1) N/A 2) N/A 3) Update to REGION=OM in affected template jcl. PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: INS 20336 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02586-D200 DESC (SECURITY OR INTEGRITY PROBLEM) . ++VER (Z038) FMID (CINSK00) PRE (LU01610 LU02808 LU04412 LU05967 LU07078 LU07558 LU08403 LU09483 S001396 S006978 S008825 S010061 S011373 S013484 S014401) SUP (AL02808 AL03629 AL03869 AL03955 AL04400 AL09483 LT03629 LT03869 LT03955 LT04400 LT05299 LT05361 LT09993 LU03629 LU03869 LU03955 LU04400 LU05361 S011679 ST11679) ++IF FMID(CPXNK00) REQ(LU09591) . ++HOLD (LU09993) SYSTEM FMID(CINSK00) REASON (ACTION) DATE (23122) COMMENT (<table><tr><td colspan="2">Db2 Common Components</td><td>Version 20.0</td></tr><tr><td>SEQUENCE</td><td colspan="2">Before Apply</td></tr><tr><td></td><td colspan="2">Before using DBM Data Service DevOps Endpoints</td></tr><tr><td>PURPOSE</td><td colspan="2">Default templates for DBM Data Service DevOps Endpoints</td></tr><tr><td></td><td colspan="2">have been updated and new templates have been added.</td></tr><tr><td>USERS</td><td colspan="2">DBM Data Service & DBM Db2 for Zowe CLI Users</td></tr><tr><td>AFFECTED</td><td colspan="2"></td></tr><tr><td>KNOWLEDGE</td><td colspan="2">RC/Migrator Administration</td></tr><tr><td>REQUIRED</td><td colspan="2">System Administration</td></tr><tr><td>ACCESS</td><td colspan="2">Access to Db2 Tools product CDBAMD datasets</td></tr><tr><td>REQUIRED</td><td colspan="2"></td></tr></table> ***** * STEPS TO PERFORM * ***** 1. The RMAITMDxx JCL templates in CDBAMD were updated to use REGION=OM in the Step card and other minor adjustments to RC/Migrator Batch Options. 2. Review and update RMAITMDxx JCL templates in CDBAMD as needed.). ++HOLD (LU09993) SYSTEM FMID(CINSK00) REASON (ENH) DATE (23122) COMMENT (	Db2 Common Components		Version 20.0	SEQUENCE	Before Apply			Before using DBM Data Service DevOps Endpoints		PURPOSE	Default templates for DBM Data Service DevOps Endpoints			have been updated and new templates have been added.		USERS	DBM Data Service & DBM Db2 for Zowe CLI Users		AFFECTED			KNOWLEDGE	RC/Migrator Administration		REQUIRED	System Administration		ACCESS	Access to Db2 Tools product CDBAMD datasets		REQUIRED		
Db2 Common Components		Version 20.0																																
SEQUENCE	Before Apply																																	
	Before using DBM Data Service DevOps Endpoints																																	
PURPOSE	Default templates for DBM Data Service DevOps Endpoints																																	
	have been updated and new templates have been added.																																	
USERS	DBM Data Service & DBM Db2 for Zowe CLI Users																																	
AFFECTED																																		
KNOWLEDGE	RC/Migrator Administration																																	
REQUIRED	System Administration																																	
ACCESS	Access to Db2 Tools product CDBAMD datasets																																	
REQUIRED																																		

Service	Details
	<pre> +-----+ Db2 Common Components Version 20.0 +-----+ SEQUENCE Before using DBM Data Service +-----+ PURPOSE Change in configuration variables for DBM Data Service +-----+ USERS DBM Data Service Users AFFECTED +-----+ KNOWLEDGE System Administration REQUIRED +-----+ ACCESS Post Install configuration or access to config datasets REQUIRED +-----+ ***** * STEPS TO PERFORM * ***** Resubmit the tasks in the DBM Data Service and MTC-DBM UI Customization: a. Select option 2 (Customize) on the Post-Install Tailoring menu, and then select MTC (DBM Data Service and MTC-DBM UI). b. Select option 2 (Customize DBM Data Service and MTC-DBM UI). c. Select option 3 (Parameters) and validate the values for all the parameters. d. Issue on command RESTART and reset the Option 4 (Tasks). e. Select option 4 (Tasks) and validate updated tasks and copy/submit as needed.). LINK('.. /PXM/ds/dbm-ds.war') PARM(PATHMODE(0,7,7,5)) SHSCRIPT(PXMDSSMP,PRE). </pre>

Service	Details
LU10003	LU10003 M.C.S. ENTRIES = ++PTF (LU10003) REWORK(2023131) SOC1 ABEND AND PFR0183E IN PFR REBUILD WITH PREVIEW SIMULATE PROBLEM DESCRIPTION: Fast Recover for Db2 for z/OS (PFR) when executing REBUILD INDEX and with PREVIEW SIMULATE may fail with a SOC1 ABEND and the error PFR0183E. PFR0183E - ERROR OCCURED DURING INDEX SORT, CHECK SORT MESSAGES SYMPTOMS: PFR job for executing REBUILD INDEX and with PREVIEW SIMULATE terminates with a SOC1 ABEND, the error PFR0183E, and RC=8. IMPACT: PFR rebuild simulation process may terminate prematurely. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Fast Recover for Db2 for z/OS (PFR) Version 20.0 Related Problem: PFR 20264 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02588-D200 DESC(SOC1 ABEND AND PFR0183E IN PFR REBUILD WITH PREVIEW SIMULATE). ++VER (Z038) FMID (CUGRK00) PRE (LU00728 LU04103 LU04435 LU05850 LU07771 LU09088 LU09168 R096595 R099574 S000029 S000788 S001660 S001855 S004251 S004475 S007826 S008280 S008466 S009742 S012155 S014568) SUP (LT10003)

Service	Details
LU10016	LU10016 M.C.S. ENTRIES = ++PTF (LU10016) REWORK(2023125) PFR REBUILD INDEX CORRUPTS THE INDEX ON LOB TABLESPACE PROBLEM DESCRIPTION: Fast Recover for Db2 for z/OS (PFR) REBUILD INDEX may corrupt index for multi-dataset LOB tablespace when one or more HLSMAP with several LLSMAPs present. SYMPTOMS: CHECK INDEX after REBUILD INDEX reports missing index keys as below. DSNU747I !ssid 0nn HH:MM:SS.NN DSNUKIKI - ROWID=X'NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN' MISSING IN INDEX=DBBBBBB.IXXXXXX IMPACT: REBUILD INDEX for multi-dataset LOB tablespace may corrupt the index. CIRCUMVENTION: Use SORTLOG YES for rebuilding the index along with RECOVER. PRODUCT(S) AFFECTED: Fast Recover for Db2 for z/OS (PFR) Version 20.0 Related Problem: PFR 19704 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02589-D200 DESC(PFR REBUILD INDEX CORRUPTS THE INDEX ON LOB TABLESPACE). ++VER (Z038) FMID (CUGRK00) PRE (LU00141 LU00728 LU02712 LU04435 LU05850 LU09088 LU09168 R096595 R099574 S000029 S001660 S004251 S005018 S008280 S011083 S014568) SUP (LT09446 LT10016)

Service	Details								
LU10020	LU10020 M.C.S. ENTRIES = ++PTF (LU10020) REWORK(2023122) PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE PROBLEM DESCRIPTION: The Subsystem Analyzer for Db2 for z/OS (PSA) externalization process overlays sixteen bytes of Xmanager private storage. This can result in various problems like intervals not externalizing data because of resource contention, SOC4 abends, or other errors. The storage overlay occurs after applying PTF LU08600. In one case, a SOC4 abend occurred in the Detector externalization process that resulted in an exclusive scope SYSTEMS ENQ for the Detector control file not being released. This resulted in contention for the ENQ by other Detector collections in Xmanagers on all LPARs that were using the same Detector control file. Resource contention can result in Detector and Subsystem Analyzer not externalizing data. SYMPTOMS: Xmanager may not terminate. SOC4 or other abends may occur in the Xmanager address space. Abend messages will appear in the Xmanager JOBLLOG. Resource contention can result in messages such as the following being continually issued in the Xmanager JOBLLOG: MIM1039I XMANxx JOBxxxx A=asid T=task needs EXCL CONTROLFILE.CNTL MIM1038I XMANxx JOBxxxx A=asid T=task contention with XMANxx A=asid T=task <repeated at regular intervals> Detector and Subsystem Analyzer may stop externalizing data. IMPACT: Xmanager does not terminate normally. Collected data can be lost. CIRCUMVENTION: Do not start Subsystem Analyzer collections. PRODUCT(S) AFFECTED: Subsystem Analyzer for Db2 for z/OS Version 20.0 Related Problem: PSA 20324 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02591-D200 DESC(PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE). ++VER (Z038) FMID (CPDTK00) PRE (LU04416 LU08863 S001400 S013616 S014860 S016174) SUP (LT10018 LT10020) ++IF FMID(CPSAK00) REQ(LU10021). ++HOLD (LU10020) SYSTEM FMID(CPDTK00) REASON (RESTART) DATE (23122) COMMENT (<table border="1"> <tr> <td>Detector for Db2 for z/OS</td><td>Version 20.0</td></tr> <tr> <td>SEQUENCE</td><td>Before Apply</td></tr> <tr> <td>PURPOSE</td><td>Avoidance of module mismatch related errors in an Xmanager</td></tr> <tr> <td>USERS</td><td>Collections of Db2 statistics via Detector or Subsystem</td></tr> </table>)	Detector for Db2 for z/OS	Version 20.0	SEQUENCE	Before Apply	PURPOSE	Avoidance of module mismatch related errors in an Xmanager	USERS	Collections of Db2 statistics via Detector or Subsystem
Detector for Db2 for z/OS	Version 20.0								
SEQUENCE	Before Apply								
PURPOSE	Avoidance of module mismatch related errors in an Xmanager								
USERS	Collections of Db2 statistics via Detector or Subsystem								

Service	Details
	AFFECTED Analyzer. Db2 subsystems that have active collections. +-----+-----+ KNOWLEDGE 1. SMP/E REQUIRED 2. z/OS System Programming 3. Db2 Tools Installation and Maintenance procedures. +-----+-----+ ACCESS 1. Product runtime libraries. REQUIRED +-----+-----+ ***** * STEPS TO PERFORM * ***** To implement the PTF: 1. Stop product collections. 2. Stop the Xmanager task. 3. Update the runtime library. 4. Restart the Xmanager task. Important! Please do not apply maintenance to the Xmanager runtime libraries with Xmanager active as it may result in a discrepancy between dynamically loaded components and statically loaded components. This may result in unpredictable behavior with Db2 Tools and/or may compromise the operating system/Db2 including possible failures.).

Service	Details
LU10021	LU10021 M.C.S. ENTRIES = ++PTF (LU10021) REWORK(2023122) PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE PROBLEM DESCRIPTION: The Subsystem Analyzer for Db2 for z/OS (PSA) externalization process overlays sixteen bytes of Xmanager private storage. This can result in various problems like intervals not externalizing data because of resource contention, SOC4 abends, or other errors. The storage overlay occurs after applying PTF LU08600. In one case, a SOC4 abend occurred in the Detector externalization process that resulted in an exclusive scope SYSTEMS ENQ for the Detector control file not being released. This resulted in contention for the ENQ by other Detector collections in Xmanagers on all LPARs that were using the same Detector control file. Resource contention can result in Detector and Subsystem Analyzer not externalizing data. SYMPTOMS: Xmanager may not terminate. SOC4 or other abends may occur in the Xmanager address space. Abend messages will appear in the Xmanager JOBLLOG. Resource contention can result in messages such as the following being continually issued in the Xmanager JOBLLOG: MIM1039I XMANxx JOBxxxx A=asid T=task needs EXCL CONTROLFILE.CNTL MIM1038I XMANxx JOBxxxx A=asid T=task contention with XMANxx A=asid T=task <repeated at regular intervals> Detector and Subsystem Analyzer may stop externalizing data. IMPACT: Xmanager does not terminate normally. Collected data can be lost. CIRCUMVENTION: Do not start Subsystem Analyzer collections. PRODUCT(S) AFFECTED: Subsystem Analyzer for Db2 for z/OS Version 20.0 Related Problem: PSA 20324 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02591-D200 DESC(PSA EXTERNALIZATION OVERLAYS XMANAGER PRIVATE STORAGE). ++VER (Z038) FMID (CPSAK00) PRE (LU01990 LU03601 LU04232 LU04426 LU05515 LU07723 R097716 S000871 S004468 S008190 S009267 S010867 S012926 S014681 S016175) SUP (AL08600 LT08600 LT10019 LT10021 LU08600) ++IF FMID(CPDTK00) REQ(LU10020). ++HOLD (LU10021) SYSTEM FMID(CPSAK00) REASON (RESTART) DATE (23122) COMMENT (+-----+ Subsystem Analyzer for Db2 for z/OS Version 20.0 +-----+ SEQUENCE Before Apply +-----+ PURPOSE Avoidance of module mismatch related errors in an Xmanager

Service	Details
	<pre> +-----+-----+ USERS Collections of Db2 statistics via Detector or Subsystem AFFECTED Analyzer. Db2 subsystems that have active collections. +-----+-----+ KNOWLEDGE 1. SMP/E REQUIRED 2. z/OS System Programming 3. Db2 Tools Installation and Maintenance procedures. +-----+-----+ ACCESS 1. Product runtime libraries. REQUIRED +-----+-----+ ***** * STEPS TO PERFORM * ***** To implement the PTF: 1. Stop product collections. 2. Stop the Xmanager task. 3. Update the runtime library. 4. Restart the Xmanager task. Important! Please do not apply maintenance to the Xmanager runtime libraries with Xmanager active as it may result in a discrepancy between dynamically loaded components and statically loaded components. This may result in unpredictable behavior with Db2 Tools and/or may compromise the operating system/Db2 including possible failures.).</pre>

Service	Details
LU10032	LU10032 M.C.S. ENTRIES = ++PTF (LU10032) REWORK(2023124) MULTIPLE SOC4 IN PXMSLCC OR BAD MSDA POINTER PROBLEM DESCRIPTION: Detector for Db2 for z/OS (PDT) can overlay the MSDA pointer after applying PTF LU05052. SYMPTOMS: There are 2 symptoms: 1) After PTF LU05052 is applied, this abend appears multiple times in the Xmanager log: SYSTEM COMPLETION CODE=0C4 REASON CODE=00000010 TIME=10.00.29 SEQ=31000 CPU=0000 ASID=0209 PSW AT TIME OF ERROR 478C5000 AD41C986 ILC 6 INTC 10 ACTIVE MODULE ADDRESS=00000000_2D41C900 OFFSET=00000086 NAME=PXMSLCC 2) After corrective PTF LU06348 is applied, this diagnostic message appears in the Xmanager log: STC61900 IEA794I SVC DUMP HAS CAPTURED: 905 DUMPID=001 REQUESTED BY JOB (PTXMAN2) DUMP TITLE=CA/XMANAGER 20.0 BAD MSDA POINTER IMPACT: 1) With the original symptom, messages from non-PXM sources such as PDT or PSA cannot be written out. 2) With the second symptom, the situation is recovered and processing continues. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Detector for Db2 for z/OS Version 20.0 Related Problem: PDT 20218 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02592-D200 DESC(MULTIPLE SOC4 IN PXMSLCC OR BAD MSDA POINTER). ++VER (Z038) FMID (CPDTK00) PRE (LU04416 LU05052 LU08863 R097923 S014860) SUP (AL05052 LT10032)

Service	Details
LU10036	LU10036 M.C.S. ENTRIES = ++PTF (LU10036) REWORK(2023135) RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES ENHANCEMENT DESCRIPTION: Fast Load for Db2 for z/OS (PFL) has been enhanced to improve the elapsed time to process PBR tablespaces. PBR tablespaces are now processed in parallel when a single INDDN data set is used and any RECLUSTER value is specified. PRODUCT(S) AFFECTED: Fast Load for Db2 for z/OS Version 20.0 Related Problem: PFL 19897 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02593-D200 DESC(RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES). ++VER (Z038) FMID (CPFLK00) PRE (LU00178 LU00247 LU00436 LU00724 LU01379 LU01720 LU02243 LU03191 LU03231 LU03577 LU03684 LU03846 LU04159 LU04417 LU04616 LU05207 LU05225 LU05348 LU05457 LU05880 LU06304 LU06365 LU07264 LU07461 LU08283 LU09132 LU09378 LU09477 LU09702 LU09861 R096581 R097708 R099557 S000018 S000704 S001401 S001656 S004275 S004459 S004857 S005012 S005502 S006117 S007170 S007811 S008071 S008378 S008428 S008584 S009024 S009977 S010195 S010752 S011235 S011325 S011431 S011520 S011601 S011846 S011946 S011996 S012128 S012150 S012275 S012526 S012984 S013066 S013097 S013175 S013203 S013765 S014031 S014772 S015015 S015312 S015484 S015738 S016089) SUP (AS14772 LT02258 LT02485 LT09611 LT10036 LU02258 LU02485 S015771 ST15281 ST15288 ST15771 TR99436) ++IF FMID(CPUTK00) REQ(LU10037).

Service	Details
LU10037	LU10037 M.C.S. ENTRIES = ++PTF (LU10037) REWORK(2023135) RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES ENHANCEMENT DESCRIPTION: Fast Load for Db2 for z/OS (PFL) has been enhanced to improve the elapsed time to process PBR tablespaces. PBR tablespaces are now processed in parallel when a single INDDN data set is used and any RECLUSTER value is specified. PRODUCT(S) AFFECTED: Fast Load for Db2 for z/OS Version 20.0 Related Problem: PFL 19897 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02593-D200 DESC(RECLUSTER SUPPORT FOR PARALLEL PROCESSING OF PBR TABLESPACES) . ++VER (Z038) FMID (CPUTK00) PRE (LU00248 LU03192 LU03323 LU03847 LU04427 LU04618 LU05305 LU05349 LU05535 LU06206 LU06366 LU06791 LU09133 LU09478 LU09703 S008072 S008380 S008429 S008586 S009978 S011521 S012529 S013098 S013767 S014773 S015740) SUP (LT09612 LT10037 ST08364) ++IF FMID(CPFLK00) REQ(LU10036) .

Service	Details
LU10060	LU10060 M.C.S. ENTRIES = ++PTF (LU10060) REWORK(2023125) PRA STRATEGY MISSING RECOVER STATEMENTS & SOC4 FROM PRA\$RSOP PROBLEM DESCRIPTION: Recovery Analyzer for Db2 for z/OS (PRA) may generate incomplete strategy with missing RECOVER statements when the multi-job option is used and selected recovery point is F/I/Y. Analyzing strategy may also result in abend SOC4 from PRA\$RSOP when multi-job option is used with any recovery point. SYMPTOMS: PRA-generated jobs have no RECOVER statement and only REBUILD INDEX statements. SOC4 abend from PRA\$RSOP. IMPACT: The generated recovery strategy is incomplete. CIRCUMVENTION: Use the single-job option. PRODUCT(S) AFFECTED: Recovery Analyzer for Db2 for z/OS Version 20.0 Related Problem: PRA 20095 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02595-D200 DESC(PRA STRATEGY MISSING RECOVER STATEMENTS & SOC4 FROM PRA\$RSOP). ++VER (Z038) FMID (CPRAK00) PRE (LU03706 LU04421 LU06569 R097711 R099561 S001405 S009714) SUP (LT09938 LT10060)

Service	Details
LU10072	LU10072 M.C.S. ENTRIES = ++PTF (LU10072) REWORK(2023136) RC/MIGRATOR SYNTAX CHECKER INCORRECT FOR CREATE TABLE PROBLEM DESCRIPTION: The Syntax Checker in RC/Migrator for Db2 for z/OS (RCM) may incorrectly check some CREATE TABLE SQL statements. SYMPTOMS: Some CREATE TABLE statements may check correctly, but when executed, Db2 gives some type of syntax error. For example: CREATE TABLE TB1 (T1 CHAR NOT NULL WITH DEFAULT NULL); The NOT NULL and WITH DEFAULT NULL are mutually exclusive and should be flagged as such. IMPACT: Results of the Syntax Checking are confusing to the customer. CIRCUMVENTION: None PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 19785 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02596-D200 DESC(RC/MIGRATOR SYNTAX CHECKER INCORRECT FOR CREATE TABLE). ++VER (Z038) FMID (CINSK00) PRE (LU00446 LU03657 LU04412 LU04463 LU04950 LU05242 LU05382 LU05886 LU06576 LU07268 LU07559 LU08696 LU09207 LU09296 R096576 R099553 S001396 S004718 S005199 S006113 S006638 S006863 S007379 S007807 S009105 S009356 S009417 S009860 S011966 S012361 S012817 S012933 S013071 S014125 S014832 S015804) SUP (LT09742 LT09743 LT09863 LT09879 LT09880 LT10072 S008202 S013726 ST06695 ST08202 ST13726) ++HOLD (LU10072) SYSTEM FMID(CINSK00) REASON (MSGSKEL) DATE (23136) COMMENT (+-----+ Db2 Common Components Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Relink XMESSAGES +-----+ USERS AFFECTED All Db2 Tools Users +-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND Authority on Db2 subsystems +-----+ *****

Service	Details
	* STEPS TO PERFORM * ***** XMESSAGE components have changes as part of this maintenance. If you do not customize XMESSAGES, no further action is required. If you do customize XMESSAGES, after maintenance is APPLIED 1. Re-apply XMESSAGE customizations and relink XMESSAGE load modules. Refer to the Post Installation and Customization Guide for details.).

Service	Details																						
LU10074	LU10074 M.C.S. ENTRIES = ++PTF (LU10074) REWORK(2023128) LOOP AT XMANAGER START IF CAIRIM IS UNAVAILABLE PROBLEM DESCRIPTION: The Execution Manager (Xmanager) may loop, taking SOC1 abends at startup, if CAIRIM (Common Components and Services) is not available. SYMPTOMS: Rapid looping and excessive abend messages, causing a variety of system problems. IMPACT: Potentially the JES spool may fill up. CIRCUMVENTION: Ensure that CAIRIM is started and available before starting the Xmanager. PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: PXM 20362 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02597-D200 DESC(LOOP AT XMANAGER START IF CAIRIM IS UNAVAILABLE) . ++VER (Z038) FMID (CINSK00) PRE (LU00523 LU00937 LU01760 LU01978 LU04355 LU04412 LU05347 LU05717 LU05997 LU06606 LU06887 LU07721 S004455 S004756 S006113 S011317 S013717 S013839 S015045 S015394) SUP (LT04908 LT10074 LU04908 ST11300) ++HOLD (LU10074) SYSTEM FMID(CINSK00) REASON (RESTART) DATE (23128) COMMENT (<table border="1"> <tr> <td>Db2 Common Components</td><td>Version 20.0</td></tr> </table> -----+----- <table border="1"> <tr> <td>SEQUENCE</td><td>Before Apply</td></tr> </table> -----+----- <table border="1"> <tr> <td>PURPOSE</td><td>Avoidance of module mismatch related errors in an Xmanager</td></tr> </table> -----+----- <table border="1"> <tr> <td>USERS</td><td>Collections of Db2 statistics via Detector or Subsystem</td></tr> <tr> <td>AFFECTED</td><td>Analyzer.</td></tr> <tr> <td></td><td>Db2 subsystems that have active collections.</td></tr> </table> -----+----- <table border="1"> <tr> <td>KNOWLEDGE</td><td>1. SMP/E</td></tr> <tr> <td>REQUIRED</td><td>2. z/OS System Programming</td></tr> <tr> <td></td><td>3. Db2 Tools Installation and Maintenance procedures.</td></tr> </table> -----+----- <table border="1"> <tr> <td>ACCESS</td><td>1. Product runtime libraries.</td></tr> <tr> <td>REQUIRED</td><td></td></tr> </table> -----+----- ***** * STEPS TO PERFORM * ***** To implement the PTF: 1. Stop product collections.	Db2 Common Components	Version 20.0	SEQUENCE	Before Apply	PURPOSE	Avoidance of module mismatch related errors in an Xmanager	USERS	Collections of Db2 statistics via Detector or Subsystem	AFFECTED	Analyzer.		Db2 subsystems that have active collections.	KNOWLEDGE	1. SMP/E	REQUIRED	2. z/OS System Programming		3. Db2 Tools Installation and Maintenance procedures.	ACCESS	1. Product runtime libraries.	REQUIRED	
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REQUIRED	2. z/OS System Programming																						
	3. Db2 Tools Installation and Maintenance procedures.																						
ACCESS	1. Product runtime libraries.																						
REQUIRED																							

Service	Details
	2. Stop the Xmanager task. 3. Update the runtime library. 4. Restart the Xmanager task. Important! Please do not apply maintenance to the Xmanager runtime libraries with Xmanager active as it may result in a discrepancy between dynamically loaded components and statically loaded components. This may result in unpredictable behavior with Db2 Tools and/or may compromise the operating system/Db2 including possible failures.).

Service	Details
LU10075	LU10075 M.C.S. ENTRIES = ++PTF (LU10075) REWORK(2023136) FUNCTION PARSER AND GENDDL FIXES PROBLEM DESCRIPTION: The Object Framework Services (OFS) component of the Database Management Solutions for Db2 for z/OS is not generating the expected output in the following cases. 1. During an RC/Compare analysis, an invalid APPLCOMPAT clause is generated in the CREATE/ALTER FUNCTION (compiled SQL Scalar) object output. 2. An error is throw in valid scenarios.For example with the optional keyword in PARAMETER VARCHAR NULLTERM clause of CREATE FUNCTION (external scalar type). 3. No error is thrown considering the mutuality of PARAMETER STYLE JAVA PARAMETER STYLE JAVA and LANGUAGE other than JAVA of a and LANGUAGE type other than JAVA of a CREATE FUNCTION (external scalar type). SYMPTOMS: 1. In the CREATE FUNCTION statement APPLCOMPAT is generated without any value. 2. An error of RC=4,400 is displayed instead of a valid DDL. 3. DDL is generated instead of an error. IMPACT: DDL generated is incorrect. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: OFS 19991 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02598-D200 DESC(FUNCTION PARSER AND GENDDL FIXES). ++VER (Z038) FMID (COFSK00) PRE (LU00531 LU03315 LU03659 LU04085 LU04413 LU07688 LU08241 LU08697 LU09137 LU09346 LU09432 R096577 R099554 S001397 S004456 S006114 S006864 S012412 S015225 S015440) SUP (AL09346 LT02866 LT08853 LT09567 LT10075 LU02866 LU09567)

Service	Details																																
LU10079	LU10079 M.C.S. ENTRIES = ++PTF (LU10079) REWORK(2023143) OBSOLETE PTDB OBJECTS CLEANUP DB2 CUSTOMIZATION TASKS ENHANCEMENT DESCRIPTION: The Database Management Solutions for Db2 for z/OS post-install tailoring process has been enhanced with new tasks to help you remove deprecated PTDB objects from the Db2 catalog. The following new tasks are introduced under post-install tailoring option 3 Tasks - Execute Db2 catalog customization tasks: 1. Report on Obsolete PTDB Objects (task ID 0005) - Provides a list of objects to be deleted and list of unrecognized and dependent objects. Generates control statements that are required input for tasks 0006 and 0007. 2. Stop Obsolete PTDB Objects (task ID 0006) - Stops objects identified in task 0005. 3. Drop Obsolete PTDB Objects (task ID 0007) - Drops objects identified in task 0005. PRODUCT(S) AFFECTED: Database Management Solutions for DB2 for z/OS Version 20.0 Related Problem: INS 19548 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02599-D200 DESC(OBSOLETE PTDB OBJECTS CLEANUP DB2 CUSTOMIZATION TASKS). ++VER (Z038) FMID (CINSK00) PRE (LU00131 LU00254 LU00438 LU00723 LU01039 LU01405 LU01978 LU02229 LU02726 LU03190 LU03657 LU04006 LU04412 LU04621 LU06081 LU06216 LU06364 LU08030 LU08184 LU09280 LU09778 R096576 R097704 R099553 S000016 S000978 S001396 S001655 S004455 S006113 S007379 S007807 S008869 S009761 S009860 S010004 S010173 S011078 S011084 S012715 S012904 S014174 S014381 S014566 S015311 S015709 S015980) SUP (LT10079 ST12171) ++HOLD (LU10079) SYSTEM FMID(CINSK00) REASON (DB2BIND) DATE (23143) COMMENT (<table border="1"> <tr> <td colspan="2">+-----+</td> </tr> <tr> <td> Db2 Common Components</td> <td>Version 20.0 </td> </tr> <tr> <td colspan="2">+-----+</td> </tr> <tr> <td> SEQUENCE</td> <td> After Apply </td> </tr> <tr> <td colspan="2">+-----+</td> </tr> <tr> <td> PURPOSE</td> <td> Bind Plans and Packages </td> </tr> <tr> <td colspan="2">+-----+</td> </tr> <tr> <td> USERS</td> <td> </td> </tr> <tr> <td> AFFECTED</td> <td> All Users </td> </tr> <tr> <td colspan="2">+-----+</td> </tr> <tr> <td> KNOWLEDGE</td> <td> </td> </tr> <tr> <td> REQUIRED</td> <td> Db2 Tools Post Install Customization </td> </tr> <tr> <td colspan="2">+-----+</td> </tr> <tr> <td> ACCESS</td> <td> 1. Db2 Tools Post Install </td> </tr> <tr> <td> REQUIRED</td> <td> 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. </td> </tr> <tr> <td colspan="2">+-----+</td> </tr> </table> +	+-----+		Db2 Common Components	Version 20.0	+-----+		SEQUENCE	After Apply	+-----+		PURPOSE	Bind Plans and Packages	+-----+		USERS		AFFECTED	All Users	+-----+		KNOWLEDGE		REQUIRED	Db2 Tools Post Install Customization	+-----+		ACCESS	1. Db2 Tools Post Install	REQUIRED	2. BIND, SYSADM or SYSCNTL on Db2 subsystem.	+-----+	
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Service	Details
	<pre> +-----+-----+ ***** * STEPS TO PERFORM * ***** Bind Control Cards have changed as part of this maintenances. After this maintenance is applied, Bind Control cards must be regenerated for all installed product plans and packages. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Using the newly generated Bind Control Cards, a Bind Replace must be performed on the plans and packages for all installed products. IMPORTANT! If SYSVIEW for Db2 is installed and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU10079) SYSTEM FMID(CINSK00) REASON (MSGSKEL) DATE (23143) COMMENT (+-----+-----+ Db2 Common Components Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Relink XMESSAGES +-----+-----+ USERS AFFECTED All Db2 Tools Users +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND Authority on Db2 subsystems +-----+-----+ ***** * STEPS TO PERFORM * ***** XMESSAGE components have changes as part of this maintenance. If you do not customize XMESSAGES, no further action is required. If you do customize XMESSAGES, after maintenance is APPLIED 1. Re-apply XMESSAGE customizations and relink XMESSAGE load modules. Refer to the Post Installation and Customization Guide for details.). </pre>

Service	Details																						
LU10091	LU10091 M.C.S. ENTRIES = ++PTF (LU10091) REWORK(2023135) SOME MESSAGES ARE SUPPRESSED IN THE XMANAGER LOG PROBLEM DESCRIPTION: After installing solution LU09979, the Xmanager may suppress messages that originate in other components. SYMPTOMS: Not all messages are written to the Xmanager JESLOG IMPACT: Messages that indicate status of other components are missing from the Xmanager JESLOG which could cause some automation to fail if the automation is triggered by the message that is suppressed. CIRCUMVENTION: None PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: PXM 20405 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02600-D200 DESC(SOME MESSAGES ARE SUPPRESSED IN THE XMANAGER LOG). ++VER (Z038) FMID (CINSK00) PRE (LU01978 LU04412 LU04452 R099979 S011674 S013717 S014298 S014756) SUP (AL09979 BS13717 LT09979 LT10091 LU09979 ST14233 ST14237 ST14239) ++HOLD (LU10091) SYSTEM FMID(CINSK00) REASON (RESTART) DATE (23135) COMMENT (<table border="1"> <tr> <td>Db2 Common Components</td><td>Version 20.0</td></tr> </table> -----+----- <table border="1"> <tr> <td>SEQUENCE</td><td>Before Apply</td></tr> </table> -----+----- <table border="1"> <tr> <td>PURPOSE</td><td>Avoidance of module mismatch related errors in an Xmanager</td></tr> </table> -----+----- <table border="1"> <tr> <td>USERS</td><td>Collections of Db2 statistics via Detector or Subsystem</td></tr> <tr> <td>AFFECTED</td><td>Analyzer.</td></tr> <tr> <td></td><td>Db2 subsystems that have active collections.</td></tr> </table> -----+----- <table border="1"> <tr> <td>KNOWLEDGE</td><td>1. SMP/E</td></tr> <tr> <td>REQUIRED</td><td>2. z/OS System Programming</td></tr> <tr> <td></td><td>3. Db2 Tools Installation and Maintenance procedures.</td></tr> </table> -----+----- <table border="1"> <tr> <td>ACCESS</td><td>1. Product runtime libraries.</td></tr> <tr> <td>REQUIRED</td><td></td></tr> </table> -----+----- ***** * STEPS TO PERFORM * ***** To implement the PTF: 1. Stop product collections.	Db2 Common Components	Version 20.0	SEQUENCE	Before Apply	PURPOSE	Avoidance of module mismatch related errors in an Xmanager	USERS	Collections of Db2 statistics via Detector or Subsystem	AFFECTED	Analyzer.		Db2 subsystems that have active collections.	KNOWLEDGE	1. SMP/E	REQUIRED	2. z/OS System Programming		3. Db2 Tools Installation and Maintenance procedures.	ACCESS	1. Product runtime libraries.	REQUIRED	
Db2 Common Components	Version 20.0																						
SEQUENCE	Before Apply																						
PURPOSE	Avoidance of module mismatch related errors in an Xmanager																						
USERS	Collections of Db2 statistics via Detector or Subsystem																						
AFFECTED	Analyzer.																						
	Db2 subsystems that have active collections.																						
KNOWLEDGE	1. SMP/E																						
REQUIRED	2. z/OS System Programming																						
	3. Db2 Tools Installation and Maintenance procedures.																						
ACCESS	1. Product runtime libraries.																						
REQUIRED																							

Service	Details
	2. Stop the Xmanager task. 3. Update the runtime library. 4. Restart the Xmanager task. Important! Please do not apply maintenance to the Xmanager runtime libraries with Xmanager active as it may result in a discrepancy between dynamically loaded components and statically loaded components. This may result in unpredictable behavior with Db2 Tools and/or may compromise the operating system/Db2 including possible failures.).

Service	Details
LU10118	LU10118 M.C.S. ENTRIES = ++PTF (LU10118) REWORK(2023139) PQC0711E MEDIA MANAGER ERROR FOR ENCRYPTED OBJECTS PROBLEM DESCRIPTION: Quick Copy for Db2 for z/OS (PQC) may fail with the error PQC0711E using encrypted objects that utilize different keys to allocate buffers. SYMPTOMS: PQC job terminates with the following message: PQC0711E MEDIA MANAGER GETSEQ FAILED FOR DSN: DSNAAAA.DSNBBB.XXXXXXXXXX.YYYYYYYY.I000N.A00N PQC0719E MEDIA MANAGER RETURN CODE: 0032 IMPACT: PQC copy process may terminate without copying the objects. CIRCUMVENTION: None PRODUCT(S) AFFECTED: Quick Copy for Db2 for z/OS (PQC) Version 20.0 Related Problem: PQC 20297 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02602-D200 DESC(PQC0711E MEDIA MANAGER ERROR FOR ENCRYPTED OBJECTS). ++VER (Z038) FMID (CINSK00) PRE (LU03367 LU04412 LU05367 S000016 S005011 S008313) SUP (LT10118)

Service	Details
LU10122	LU10122 M.C.S. ENTRIES = ++PTF (LU10122) REWORK(2023135) ERROR PR534E & INVALID JCL PARAMETERS IN DUAL BSDS RECOVERY PROBLEM DESCRIPTION: Recovery Analyzer for Db2 for z/OS (PRA) when analyzing a Dual BSDS Recovery may display error PR534E when RBAs and LRSNs are entered on the Dual BSDS Recovery screen. Additionally, the JCL generated for the Dual BSDS Recovery may have incorrect parameters leading to job failures. Value not allowed - PR534E: RBA and LRSN can not both be specified SYMPTOMS: The error PR534E is displayed on the Dual BSDS Recovery screen of PRA, or the job generated for the Dual BSDS Recovery fails due to incorrect JCL parameters. IMPACT: PRA users may not be able to analyze the Dual BSDS Recovery. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Recovery Analyzer for Db2 for z/OS (PRA) Version 20.0 Related Problem: PRA 20315 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02603-D200 DESC(ERROR PR534E & INVALID JCL PARAMETERS IN DUAL BSDS RECOVERY) . ++VER (Z038) FMID (CPRAK00) PRE (LU04421) SUP (LT10122)

Service	Details
LU10134	LU10134 M.C.S. ENTRIES = ++PTF (LU10134) REWORK(2023139) RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT PROBLEM DESCRIPTION: RC/Migrator for DB2 for z/OS (RCM) Strategy Services only allows 8 characters for the target DB2 system version string when prompted because the version cannot be determined. It is now changed to 9 characters with the default being 'V12R1M500'. SYMPTOMS: None. IMPACT: None. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 20153 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02604-D200 DESC(RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT). ++VER (Z038) FMID (CINSK00) PRE (LU00432 LU00446 LU03314 LU03657 LU03923 LU04149 LU04412 LU04573 LU04874 LU04930 LU05739 LU05886 LU06508 LU06576 LU06629 LU07268 LU07836 LU08696 LU09136 LU09140 LU09296 LU09809 R096576 R097704 R099553 S001396 S004455 S004718 S004855 S005199 S006113 S006638 S007323 S007379 S007807 S008291 S008859 S009105 S010549 S011691 S011866 S011966 S012361 S012751 S012904 S012933 S013071 S014125 S014832 S015804) SUP (LT10134 S009564 ST09564) ++IF FMID(CRCMK00) REQ(LU10135).

Service	Details
LU10135	LU10135 M.C.S. ENTRIES = ++PTF (LU10135) REWORK(2023139) RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT PROBLEM DESCRIPTION: RC/Migrator for DB2 for z/OS (RCM) Strategy Services only allows 8 characters for the target DB2 system version string when prompted because the version cannot be determined. It is now changed to 9 characters with the default being 'V12R1M500'. SYMPTOMS: None. IMPACT: None. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 20153 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02604-D200 DESC(RC/MIGRATOR TARGET DB2 VERSION IS TOO SHORT). ++VER (Z038) FMID (CRCMK00) PRE (LU04429 LU04931) SUP (LT10110 LT10135) ++IF FMID(CINSK00) REQ(LU10134).

Service	Details
LU10159	LU10159 M.C.S. ENTRIES = ++PTF (LU10159) REWORK(2023146) EXTRA BLANK ADDED TO DATA IN QUOTES WITH EMBEDDED BLANKS PROBLEM DESCRIPTION: When RC/Migrator for DB2 for z/OS (RCM) generates FAST UNLOAD control statements, it may add an extra blank character to a column or data if they are enclosed in quotes and have embedded blanks. SYMPTOMS: The select statement supposed to be: ----- <pre>SELECT FROM <TBCreator>.<TBName> WHERE (..... IN ('AP INVOICE' , 'AR INVCOGS' , 'PAYROLL') RCM generates as follows: ----- SELECT FROM <TBCreator>.<TBName> WHERE (..... IN ('AP INVOICE' , 'AR INVCOGS' , 'PAYROLL')</pre> An extra blank is added to 'AP INVOICE' and 'AR INVCOGS'. IMPACT: The FAST UNLOAD fails to unload data. CIRCUMVENTION: Edit the script generated by the analysis and delete the extra blank character that appears in the column or data with quotes from the FAST UNLOAD utility control statements. PRODUCT(S) AFFECTED: RC/Migrator for Db2 for z/OS Version 20.0 Related Problem: RCM 20417 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02605-D200 DESC(EXTRA BLANK ADDED TO DATA IN QUOTES WITH EMBEDDED BLANKS). ++VER (Z038) FMID (CINSK00) PRE (LU00446 LU03657 LU04412 LU05886 LU06576 LU07268 LU08106 LU08696 R097704 S004718 S007379 S011691 S011966 S012361 S012933 S014125 S015804) SUP (LT10159)

Service	Details
LU10167	LU10167 M.C.S. ENTRIES = ++PTF (LU10167) REWORK(2023139) CORRECTING PQC PERFORMANCE REGRESSION INTRODUCED BY LU06423. PROBLEM DESCRIPTION: Quick Copy for Db2 for z/OS (PQC) performance has regressed due to R20 PTF LU06423 solely for tablespaces that have no system pages or dictionary pages. Other tablespaces are not affected. SYMPTOMS: Performance parameters ELAPSED, TCB-CPU, SRB-CPU & TOTAL-CPU all are increased approx 5 times. IMPACT: Performance regressed by 5 times. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Quick Copy for Db2 for z/OS Version 20.0 Related Problem: PQC 20287 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02607-D200 DESC(CORRECTING PQC PERFORMANCE REGRESSION INTRODUCED BY LU06423.). ++VER (Z038) FMID (CUGRK00) PRE (LU00141 LU01936 LU02529 LU02762 LU04435 LU06423 LU09302 R099574 S000029 S000201 S001660 S004475 S005018 S006069 S006132 S006879 S007826 S008668 S009132 S009903 S011239 S015308 S015487 S015609 S016181) SUP (LT01893 LT02307 LT03073 LT05422 LT07311 LT08671 LT10167 LU01893 LU02307 LU03073 LU05422 LU07311 LU08671)

Service	Details
LU10170	LU10170 M.C.S. ENTRIES = ++PTF (LU10170) REWORK(2023138) PRA PANEL PRPCTRV ERROR WHILE RECOVERING DB2 CATALOG PROBLEM DESCRIPTION: Recovery Analyzer for Db2 for z/OS (PRA) fails with a panel error when setting up a job to recover Db2 catalog(DSNDB01/DSNDB06). SYMPTOMS: ISPF Dialog Error. Panel 'PRPCTRV' error Invalid cursor field/area specified as a parameter. IMPACT: PRA is not able to generate JCL for Db2 catalog recovery. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Recovery Analyzer for Db2 for z/OS Version 20.0 Related Problem: PRA 20284 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02608-D200 DESC(PRA PANEL PRPCTRV ERROR WHILE RECOVERING DB2 CATALOG). ++VER (Z038) FMID (CPRAK00) PRE (LU03706 LU04421 LU06569 R099561 S006121 S009714) SUP (LT10170)

Service	Details
LU10194	LU10194 M.C.S. ENTRIES = ++PTF (LU10194) REWORK(2023144) INCORRECT DDL GENERATED FOR CHAR COLS WHEN DEFAULT IS X'00' PROBLEM DESCRIPTION: In RC/Query for Db2 for z/OS (RCQ), an incorrect CREATE TABLE statement is generated in the DDL when the object has a column with a default value of '00' created in a classic tablespace SYMPTOMS: DDL generated is incomplete. For example <pre>CREATE TABLE DB2BATC.PCO_CRD_DETL_2 (CDN DECIMAL(18, 0) NOT NULL ,APSN SMALLINT NOT NULL ,DKI CHARACTER(1) FOR SBCS DATA NOT NULL WITH DEFAULT ' IMPACT: DDL generated is non-executable. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: RC/Query for Db2 for z/OS Version 20.0 RC/Migrator for Db2 for z/OS Version 20.0 Log Analyzer for Db2 for z/OS Version 20.0 Related Problem: OFS 20380 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02610-D200 DESC(INCORRECT DDL GENERATED FOR CHAR COLS WHEN DEFAULT IS X'00'). ++VER (Z038) FMID (COFSK00) PRE (LU00531 LU02280 LU03315 LU03659 LU04413 LU05806 LU06630 LU06914 LU07688 LU08241 LU08697 LU09137 R096577 R097705 R099554 S001397 S006114 S006864 S007808 S011967 S015225 S015440) SUP (LT10194 S009128 S013758 S014655 ST09128 ST13758 ST14655)</pre>

Service	Details
LU10196	LU10196 M.C.S. ENTRIES = ++PTF (LU10196) REWORK(2023143) UTILITY SORT IS NOT ACTIVATED PROBLEM DESCRIPTION: DFSORT or Syncsort MFX Sort is incorrectly used instead of the Utility Sort service after PTF LU10036 is applied and the following conditions are met: - There is at least one index. - RECLUSTER NO SORT-NONE, RECLUSTER NO SORT-CLINDX, or RECLUSTER YES SORT-CLINDX is specified. SYMPTOMS: DFSORT or Syncsort MFX is used instead of Utility Sort. IMPACT: The incorrect sort utility is used which can result in reduced sort performance. CIRCUMVENTION: DFSORT or MFX is used instead of Utility Sort. PRODUCT(S) AFFECTED: Fast Load for Db2 for z/OS Version 20.0 Related Problem: PFL 20447 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02611-D200 DESC(UTILITY SORT IS NOT ACTIVATED). ++VER (Z038) FMID (CPFLK00) PRE (LU00247 LU00724 LU02243 LU03191 LU03231 LU03684 LU04417 LU04616 LU05207 LU06365 LU07264 LU07461 LU09132 LU10036 R096581 R097708 S000018 S000704 S001401 S004857 S005502 S006117 S007170 S007811 S008071 S008378 S008428 S008584 S009977 S010752 S011431 S011520 S011601 S011846 S011946 S011996 S012128 S012150 S012275 S012526 S013097 S013203 S013765 S014772 S015484 S015738 S016089) SUP (AL10036 LT10196) ++IF FMID(CPUTK00) REQ(LU10197).

Service	Details
LU10197	LU10197 M.C.S. ENTRIES = ++PTF (LU10197) REWORK(2023143) UTILITY SORT IS NOT ACTIVATED PROBLEM DESCRIPTION: DFSORT or Syncsort MFX Sort is incorrectly used instead of the Utility Sort service after PTF LU10036 is applied and the following conditions are met: - There is at least one index. - RECLUSTER NO SORT-NONE, RECLUSTER NO SORT-CLINDX, or RECLUSTER YES SORT-CLINDX is specified. SYMPTOMS: DFSORT or Syncsort MFX is used instead of Utility Sort. IMPACT: The incorrect sort utility is used which can result in reduced sort performance. CIRCUMVENTION: DFSORT or MFX is used instead of Utility Sort. PRODUCT(S) AFFECTED: Fast Load for Db2 for z/OS Version 20.0 Related Problem: PFL 20447 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02611-D200 DESC(UTILITY SORT IS NOT ACTIVATED). ++VER (Z038) FMID (CPUTK00) PRE (LU04427 LU06366 LU07462 R099566 S000024 S011238 S011999 S014773) SUP (LT06013 LT10197) ++IF FMID(CPFLK00) REQ(LU10196).

Service	Details
LU10227	LU10227 M.C.S. ENTRIES = ++PTF (LU10227) REWORK(2023149) RECOVERY ESTIMATOR MISESTIMATES LOGS ON DATA SHARING SYSTEMS PROBLEM DESCRIPTION: Recovery Estimator (RECOVER-TOOL ESTIMATE-RECOVERY) provides slightly inaccurate estimation of log sizes on data sharing subsystems. Recovery Estimator (RECOVER-TOOL ESTIMATE-RECOVERY) reports undefined objects as unsupported tablespaces with clone tables. SYMPTOMS: Recovery Estimator (RECOVER-TOOL ESTIMATE-RECOVERY) reports undefined objects as unsupported tablespaces with clone tables. The following message is shown for undefined objects: EST3010I - RECOVERABLE : NO, Tablespaces with clone tables are not supported. IMPACT: When running Recovery Estimator on data sharing subsystems the estimated log sizes may not be accurate. Incorrect non-recoverability reason is reported. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: DBM Solutions for Db2 for z/OS Base Install Version 20.0 Related Problem: INS 20164 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02612-D200 DESC(RECOVERY ESTIMATOR MISESTIMATES LOGS ON DATA SHARING SYSTEMS). ++VER (Z038) FMID (CINSK00) PRE (LU00227 LU01178 LU01405 LU01696 LU02061 LU02117 LU02197 LU02363 LU02609 LU03520 LU04369 LU04412 LU06541 LU07235 LU07372 LU09151 LU09202 LU09322 LU09778 S015311 S015864) SUP (LT08086 LT10227 LU08086) ++IF FMID(CUGRK00) REQ(LU09779).

Service	Details
LU10228	LU10228 M.C.S. ENTRIES = ++PTF (LU10228) REWORK(2023150) MERGER MIGRATION OF PBR2 TABLESPACE TO ANOTHER PBR2 ENHANCEMENT DESCRIPTION: In RC/Migrator for Db2 for z/OS (RCM), the RC/Merger (Move analysis) component now allows the migration of a PBR2 (PAGENUM RELATIVE) tablespace to another PBR2. PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: RMM 19626 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02613-D200 DESC(MERGER MIGRATION OF PBR2 TABLESPACE TO ANOTHER PBR2). ++VER (Z038) FMID (CINSK00) PRE (LU00399 LU00426 LU00446 LU00530 LU01927 LU03314 LU03657 LU03923 LU04149 LU04412 LU04463 LU04573 LU04930 LU04950 LU05162 LU05243 LU05382 LU05401 LU05739 LU05886 LU06576 LU06629 LU07248 LU07268 LU07559 LU07608 LU07687 LU07836 LU08696 LU09136 LU09207 LU09296 LU09638 LU09642 LU09836 LU10072 R096576 R097704 R099553 S000016 S001396 S001896 S004455 S004718 S004855 S005199 S006113 S006638 S006863 S007323 S007379 S007807 S007955 S008662 S008957 S009105 S009356 S009417 S009799 S009860 S011691 S011866 S011966 S012361 S012817 S012933 S013071 S014125 S014282 S014615 S014832 S015804) SUP (AS01396 AS06638 BS06638 LT07569 LT08101 LT10228 LU07569 LU08101 S001905 S007167 S007412 S011048 S015998 ST01905 ST07167 ST07412 ST11048 ST15998) ++HOLD (LU10228) SYSTEM FMID(CINSK00) REASON (DB2BIND) DATE (23150) COMMENT (<pre> +-----+ Db2 Common Components Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Bind Plans and Packages +-----+-----+ USERS AFFECTED All Users +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** DBRMs have changed as part of this maintenance. The members in the </pre>

Service	Details
	CDBASKL1 library identify the packages that must be rebound. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.). ++HOLD (LU10228) SYSTEM FMID(CINSK00) REASON (MSGSKEL) DATE (23150) COMMENT (<pre> +-----+ Db2 Common Components Version 20.0 +-----+ SEQUENCE After Apply +-----+ PURPOSE Relink XMESSAGES +-----+ USERS AFFECTED All Db2 Tools Users +-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND Authority on Db2 subsystems +-----+ ***** * STEPS TO PERFORM * ***** XMESSAGE components have changes as part of this maintenance. If you do not customize XMESSAGES, no further action is required. If you do customize XMESSAGES, after maintenance is APPLIED 1. Re-apply XMESSAGE customizations and relink XMESSAGE load modules. Refer to the Post Installation and Customization Guide for details.). CSECT (RMA@CSTA,RMA@@XT1,RMA@@XT2,RMA@@XT3,RMA@@XT4,RMA@@XT5,RMA@@XT6, RMA@@XT7) . </pre>

Service	Details														
LU10243	LU10243 M.C.S. ENTRIES = ++PTF (LU10243) REWORK(2023151) FIX INCONSISTENT MESSAGING IN PFR PROBLEM DESCRIPTION: Fast Recover for Db2 for z/OS (PFR) may display some product messages whose message codes and texts are not consistent with the rest of the product messages. These inconsistencies are present in the messages FRV8EXP, FRV9EXP, FRV10EXP, and FRV12EXP. Additionally, PFR with PREVIEW SIMULATE displays shadow VSAM data sets in PTIMSG even for objects that have been excluded from the PREVIEW SIMULATE processing. SYMPTOMS: Message codes and texts of a few PFR messages are not consistent with other PFR messages in PTIMSG DD. Also, PFR with PREVIEW SIMULATE displays shadow VSAM data sets in PTIMSG even for objects that have been excluded from the PREVIEW SIMULATE processing. IMPACT: Inconsistent product messaging. Shadow VSAM data sets of the excluded objects in PTIMSG DD may result in misinterpretation of the messages in PTIMSG DD. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: Fast Recover for Db2 for z/OS (PFR) Version 20.0 Related Problem: PFR 19937 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02614-D200 DESC(FIX INCONSISTENT MESSAGING IN PFR). ++VER (Z038) FMID (CUGRK00) PRE (LU00141 LU00728 LU01292 LU03186 LU03235 LU03859 LU04103 LU04435 LU05850 LU06034 LU07563 LU07771 LU08409 LU09088 LU09168 LU09671 LU09845 R096595 R099574 S000029 S000788 S001660 S001855 S004251 S004475 S006132 S006879 S007826 S007905 S008280 S008466 S008833 S009742 S009748 S010165 S010818 S012155 S013130 S013206 S014568) SUP (LT09759 LT10003 LT10243 LU10003) ++HOLD (LU10243) SYSTEM FMID(CUGRK00) REASON (MSGSKEL) DATE (23151) COMMENT (<table border="1"> <tr> <td>Utility General Recovery</td><td>Version 20.0</td></tr> <tr> <td>SEQUENCE</td><td>After Apply</td></tr> <tr> <td>PURPOSE</td><td>Relink XMESSAGES</td></tr> <tr> <td>USERS</td><td></td></tr> <tr> <td>AFFECTED</td><td>All Db2 Tools Users</td></tr> <tr> <td>KNOWLEDGE</td><td></td></tr> <tr> <td>REQUIRED</td><td>Db2 Tools Post Install Customization.</td></tr> </table>	Utility General Recovery	Version 20.0	SEQUENCE	After Apply	PURPOSE	Relink XMESSAGES	USERS		AFFECTED	All Db2 Tools Users	KNOWLEDGE		REQUIRED	Db2 Tools Post Install Customization.
Utility General Recovery	Version 20.0														
SEQUENCE	After Apply														
PURPOSE	Relink XMESSAGES														
USERS															
AFFECTED	All Db2 Tools Users														
KNOWLEDGE															
REQUIRED	Db2 Tools Post Install Customization.														

Service	Details
	ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND Authority on Db2 subsystems +-----+ ***** * STEPS TO PERFORM * ***** XMESSAGE components have changes as part of this maintenance. If you do not customize XMESSAGES, no further action is required. If you do customize XMESSAGES, after maintenance is APPLIED 1. Re-apply XMESSAGE customizations and relink XMESSAGE load modules. Refer to the Post Installation and Customization Guide for details.).

Service	Details
LU10247	LU10247 M.C.S. ENTRIES = ++PTF (LU10247) REWORK(2023145) ZIIP CPU TIME ZEROS IN DETECTOR PLAN DISPLAY PROBLEM DESCRIPTION: Detector for Db2 for z/OS (PDT) collections may show an incorrect zero value for the ZIIP_CPU column when Detector is using zIIP processors and SQL queries are being processed in parallel. SYMPTOMS: The ZIIP_CPU column shows zero values instead of correct statistics. IMPACT: The correct metric cannot be obtained. CIRCUMVENTION: None PRODUCT(S) AFFECTED: Detector for Db2 for z/OS Version 20.0 Related Problem: PDT 19449 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02615-D200 DESC(ZIIP CPU TIME ZEROS IN DETECTOR PLAN DISPLAY). ++VER (Z038) FMID (CPDTK00) PRE (LU00402 LU00549 LU01002 LU01542 LU02554 LU02944 LU03461 LU03917 LU04231 LU04416 LU05127 LU05152 LU05823 LU06048 LU06112 LU07488 LU08817 LU08852 LU08863 LU09049 LU09754 R096168 R096580 R097707 R098429 R099556 S000263 S003942 S004458 S004757 S006116 S006334 S006865 S007810 S008129 S008323 S008789 S009065 S010018 S010538 S010908 S011694 S011983 S012538 S012921 S013889 S014338) SUP (AL01542 AL02554 AL05152 AL08206 AL09348 AS06334 AS08129 AS13450 AS16113 CL01542 LT00240 LT00307 LT00329 LT00684 LT01214 LT01215 LT01393 LT01467 LT01903 LT01933 LT01956 LT02217 LT02220 LT02290 LT02706 LT02796 LT03093 LT03386 LT03406 LT05265 LT05545 LT06154 LT06738 LT06744 LT07809 LT08206 LT08532 LT09003 LT09348 LT09434 LT10247 LU00240 LU00329 LU00684 LU01215 LU01393 LU01467 LU01933 LU02220 LU02290 LU02706 LU02796 LU03093 LU03386 LU03406 LU05265 LU05545 LU06154 LU06744 LU07809 LU08206 LU08532 LU09003 LU09348 LU09434 R099946 S000423 S006838 S007988 S008446 S009828 S010492 S010652 S013450 S013655 S014680 S015843 S015927 S016113 ST00423 ST06838 ST07988 ST08446 ST09828 ST10492 ST10652 ST13450 ST13655 ST14680 ST15843 ST15927 ST16113 TR99946) ++HOLD (LU10247) SYSTEM FMID(CPDTK00) REASON (RESTART) DATE (23145) COMMENT (<pre> +-----+ Detector for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE Before Apply +-----+-----+ PURPOSE Avoidance of module mismatch related errors in an Xmanager +-----+-----+ </pre>

Service	Details		
	USERS	Collections of Db2 statistics via Detector or Subsystem	
	AFFECTED	Analyzer.	
		Db2 subsystems that have active collections.	
	+-----+		
	KNOWLEDGE	1. SMP/E	
	REQUIRED	2. z/OS System Programming	
		3. Db2 Tools Installation and Maintenance procedures.	
	+-----+		
	ACCESS	1. Product runtime libraries.	
	REQUIRED		
	+-----+		

	* STEPS TO PERFORM *		

	To implement the PTF:		
	1. Stop product collections.		
	2. Stop the Xmanager task.		
	3. Update the runtime library.		
	4. Restart the Xmanager task.		
	Important!		
	Please do not apply maintenance to the Xmanager runtime libraries with		
	Xmanager active as it may result in a discrepancy between dynamically		
	loaded components and statically loaded components. This may result		
	in unpredictable behavior with Db2 Tools and/or may compromise the		
	operating system/Db2 including possible failures.		
	).		

Service	Details
LU10290	LU10290 M.C.S. ENTRIES = ++PTF (LU10290) REWORK(2023150) TS-T REPORT DOES NOT WORKS WELL WITH TRAILING SPACES PROBLEM DESCRIPTION: In RC/Query for DB2 for z/OS (RCQ), the Tablespace Table inquiry report (TS-T) shows incorrect result when tablespace name has trailing spaces. SYMPTOMS: The TS-T report exclude tablespace having trailing spaces. IMPACT: TS-T report shows incorrect results. CIRCUMVENTION: None. PRODUCT(S) AFFECTED: RC/Query for Db2 for z/OS Version 20.0 Related Problem: RCQ 20450 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02619-D200 DESC(TS-T REPORT DOES NOT WORKS WELL WITH TRAILING SPACES). ++VER (Z038) FMID (CRCQK00) PRE (LU04430 LU04657 LU05277 R099569 S001414) SUP (LT10290) ++HOLD (LU10290) SYSTEM FMID(CRCQK00) REASON (DB2BIND) DATE (23150) COMMENT (<pre> +-----+ RC/Query for Db2 for z/OS Version 20.0 +-----+-----+ SEQUENCE After Apply +-----+-----+ PURPOSE Bind Plans and Packages +-----+-----+ USERS AFFECTED All Users +-----+-----+ KNOWLEDGE REQUIRED Db2 Tools Post Install Customization. +-----+-----+ ACCESS 1. Db2 Tools Post Install REQUIRED 2. BIND, SYSADM or SYSCNTL on Db2 subsystem. +-----+-----+ ***** * STEPS TO PERFORM * ***** DBRMs have changed as part of this maintenance. The members in the CDBASKL1 library identify the packages that must be rebound. Refer to the Installing documentation for the Database Management Solutions for Db2 for z/OS on https://techdocs.broadcom.com for more information about performing the task in the following step. 1. Use Post-Install Tailoring option to Bind Product Packages and Plans. IMPORTANT! If SYSVIEW for Db2 is installed, a 'Bind ALL' is generated, and the </pre>

Service	Details
	IFI-PLAN operational parameter is not used, stop the data collectors first to allow the BIND to complete successfully without contention with the plans being used by the data collectors.).

Service	Details
LU10313	LU10313 M.C.S. ENTRIES = ++PTF (LU10313) REWORK(2023151) Continuous Delivery Level Set 20.0.08 PROBLEM DESCRIPTION: Creates a common maintenance point of all PTFs published since 20.0.08 was published. SYMPTOMS: N/A IMPACT: N/A CIRCUMVENTION: N/A PRODUCT(S) AFFECTED: Db2 Common Components Version 20.0 Related Problem: GEN 20571 (C) 2023 Broadcom Inc and/or its subsidiaries; All rights reserved R02621-D200 DESC(Continuous Delivery Level Set 20.0.08). ++VER (Z038) FMID (CINSK00) PRE (LU00162 LU01290 LU03712 LU04412 LU04945 LU05995 LU07187 LU08311 LU09222 LU09280 LU09296 LU09322 LU09324 LU09351 LU09421 LU09439 LU09455 LU09483 LU09484 LU09492 LU09493 LU09634 LU09638 LU09642 LU09680 LU09701 LU09714 LU09749 LU09753 LU09776 LU09778 LU09795 LU09809 LU09836 LU09841 LU09854 LU09868 LU09909 LU09934 LU09946 LU09947 LU09962 LU09969 LU09979 LU09980 LU09987 LU09993 LU10072 LU10074 LU10079 LU10091 LU10118 LU10134 LU10159 LU10227 LU10228 S013827) SUP (LT10313) ++IF FMID(CAHOK00) REQ(LU09808). ++IF FMID(CIDBK00) REQ(LU09262 LU09317 LU09412 LU09452 LU09573 LU09870 LU09875). ++IF FMID(COFSK00) REQ(LU09346 LU09432 LU09433 LU09542 LU09567 LU09767 LU10075 LU10194). ++IF FMID(CPDAK00) REQ(LU09352 LU09538 LU09810 LU09981). ++IF FMID(CPDTK00) REQ(LU09348 LU09392 LU09413 LU09434 LU09437 LU09641 LU09754 LU09972 LU10020 LU10032 LU10247). ++IF FMID(CPFLK00) REQ(LU09369 LU09378 LU09442 LU09477 LU09702 LU09758 LU09861 LU10036 LU10196). ++IF FMID(CPFUK00) REQ(LU09325 LU09443 LU09594). ++IF FMID(CPLAK00) REQ(LU09279 LU09323 LU09472 LU09811 LU09840 LU09857 LU09998). ++IF FMID(CPPAK00) REQ(LU08885 LU09812 LU09855 LU09910 LU09935 LU09990). ++IF FMID(CPRAK00) REQ(LU09614 LU09813 LU10060 LU10122 LU10170). ++IF FMID(CPRFK00) REQ(LU09658 LU09814). ++IF FMID(CPRFK01) REQ(LU09659). ++IF FMID(CPRFK02) REQ(LU09660). ++IF FMID(CPRRK00) REQ(LU09368 LU09444). ++IF FMID(CPSAK00) REQ(LU09449 LU10021).

Service	Details	
	++IF FMID(CPUTK00) REQ(LU09409 LU09445 LU09478 LU09703 LU09815 LU09862 LU10037 LU10197). ++IF FMID(CPXNK00) REQ(LU09591). ++IF FMID(CRCMK00) REQ(LU10135). ++IF FMID(CRCQK00) REQ(LU09635 LU09789 LU09796 LU09816 LU10290). ++IF FMID(CRCSK00) REQ(LU09206 LU09817). ++IF FMID(CRCUK00) REQ(LU09506 LU09818). ++IF FMID(CRCXK00) REQ(LU09819 LU09869). ++IF FMID(CUGRK00) REQ(LU09299 LU09302 LU09401 LU09402 LU09411 LU09671 LU09779 LU09845 LU09925 LU10003 LU10016 LU10167 LU10243). ++IF FMID(CUTSK00) REQ(LU08684).	
MCS	LU09808	STARTS ON PAGE 0002
MCS	LU09809	STARTS ON PAGE 0008
MCS	LU09810	STARTS ON PAGE 0015
MCS	LU09811	STARTS ON PAGE 0022
MCS	LU09812	STARTS ON PAGE 0028
MCS	LU09813	STARTS ON PAGE 0034
MCS	LU09814	STARTS ON PAGE 0041
MCS	LU09815	STARTS ON PAGE 0047
MCS	LU09816	STARTS ON PAGE 0054
MCS	LU09817	STARTS ON PAGE 0060
MCS	LU09818	STARTS ON PAGE 0066
MCS	LU09819	STARTS ON PAGE 0073
MCS	LU09934	STARTS ON PAGE 0079
MCS	LU09935	STARTS ON PAGE 0081
MCS	LU09947	STARTS ON PAGE 0082
MCS	LU09969	STARTS ON PAGE 0083
MCS	LU09972	STARTS ON PAGE 0084
MCS	LU09979	STARTS ON PAGE 0086
MCS	LU09980	STARTS ON PAGE 0088
MCS	LU09987	STARTS ON PAGE 0089
MCS	LU09990	STARTS ON PAGE 0090
MCS	LU09993	STARTS ON PAGE 0091
MCS	LU10003	STARTS ON PAGE 0094
MCS	LU10016	STARTS ON PAGE 0095
MCS	LU10020	STARTS ON PAGE 0096
MCS	LU10021	STARTS ON PAGE 0098
MCS	LU10032	STARTS ON PAGE 0100
MCS	LU10036	STARTS ON PAGE 0101
MCS	LU10037	STARTS ON PAGE 0102
MCS	LU10060	STARTS ON PAGE 0103
MCS	LU10072	STARTS ON PAGE 0103
MCS	LU10074	STARTS ON PAGE 0105
MCS	LU10075	STARTS ON PAGE 0107
MCS	LU10079	STARTS ON PAGE 0110
MCS	LU10091	STARTS ON PAGE 0113
MCS	LU10118	STARTS ON PAGE 0115
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MCS	LU10134	STARTS ON PAGE 0116
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MCS	LU10159	STARTS ON PAGE 0118
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Database Management Solutions for Db2 for z/OS 20.0
CA RS 2306 Product/Component Listing

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Product Family	Product	Release
Database Management	CA BIND ANALYZER FOR DB2 FOR Z/OS	20.00.00
	CA DATABASE ANALYZER FOR DB2 FOR Z/OS	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS BASE INSTALL	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS OBJECT FRAMEWORK SERVICES	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS UI SERVICES	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS UTILITIES COMMON	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS UTILITY GENERAL RECOVERY	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS UTILITY SORT SERVICE	20.00.00
	CA DBM SOLUTIONS FOR DB2 FOR Z/OS XNET COMMUNICATIONS SERVER	20.00.00
	CA DBM SOLUTIONS SNAPSHOT GENERAL SERVICES	20.00.00
	CA DETECTOR FOR DB2 FOR Z/OS	20.00.00
	CA ENDEVOR SOFTWARE CHANGE MANAGER INTERFACE FOR DB2	20.00.00
	CA FAST LOAD FOR DB2 FOR Z/OS	20.00.00
	CA FAST UNLOAD FOR DB2 FOR Z/OS	20.00.00
	CA LOG ANALYZER FOR DB2 FOR Z/OS	20.00.00
	CA PLAN ANALYZER FOR DB2 FOR Z/OS	20.00.00
	CA RAPID REORG FOR DB2 FOR Z/OS	20.00.00
	CA RC/EXTRACT FOR DB2 FOR Z/OS	20.00.00
	CA RC/MIGRATOR FOR DB2 FOR Z/OS	20.00.00
	CA RC/QUERY FOR DB2 FOR Z/OS	20.00.00
	CA RC/SECURE FOR DB2 FOR Z/OS	20.00.00
	CA RC/UPDATE FOR DB2 FOR Z/OS	20.00.00
	CA RECOVERY ANALYZER FOR DB2 FOR Z/OS	20.00.00
	CA REPORT FACILITY FOR TSO	20.00.00
	CA SYSVIEW PERFORMANCE MANAGEMENT OPTION FOR DB2 FOR Z/OS	20.00.00
	CA COMMON SQL SERVICES FOR DB2 FOR Z/OS	01.00.00
The CA RS 2306 Product/Component Count for this release is 26		

CA RS Level	Service	FMID
CAR2306	LU10313	CINSK00
	LU10290	CRCQK00
	LU10247	CPDTK00
	LU10243	CUGRK00
	LU10228	CINSK00
	LU10227	CINSK00
	LU10197	CPUTK00
	LU10196	CPFLK00
	LU10194	COFSK00
	LU10170	CPRAK00
	LU10167	CUGRK00
	LU10159	CINSK00
	LU10135	CRCMK00
	LU10134	CINSK00
	LU10122	CPRAK00
	LU10118	CINSK00
	LU10091	CINSK00
	LU10079	CINSK00
	LU10075	COFSK00
	LU10074	CINSK00
	LU10072	CINSK00
	LU10060	CPRAK00
	LU10037	CPUTK00
	LU10036	CPFLK00
	LU10032	CPDTK00
	LU10021	CPSAK00
	LU10020	CPDTK00
	LU10016	CUGRK00
	LU10003	CUGRK00
	LU09993	CINSK00
	LU09990	CPPAK00
	LU09987	CINSK00
	LU09980	CINSK00
	LU09979	CINSK00
	LU09972	CPDTK00
	LU09969	CINSK00
	LU09947	CINSK00
	LU09935	CPPAK00
	LU09934	CINSK00
	LU09819	CRCXK00
	LU09818	CRCUK00
	LU09817	CRCSK00
	LU09816	CRCQK00
	LU09815	CPUTK00
	LU09814	CPRFK00
	LU09813	CPRAK00
	LU09812	CPPAK00

CA RS Level	Service	FMID
	LU09811	CPLAK00
	LU09810	CPDAK00
	LU09809	CINSK00
	LU09808	CAHOK00
CAR2305	LU09998	CPLAK00
	LU09981	CPDAK00
	LU09962	CINSK00
	LU09946	CINSK00
	LU09925	CUGRK00
	LU09910	CPPAK00
	LU09909	CINSK00
	LU09875	CIDBK00
	LU09870	CIDBK00
	LU09869	CRCXK00
	LU09868	CINSK00
	LU09862	CPUTK00
	LU09861	CPFLK00
	LU09857	CPLAK00
	LU09855	CPPAK00
	LU09854	CINSK00
	LU09845	CUGRK00
	LU09841	CINSK00
	LU09840	CPLAK00
	LU09836	CINSK00
	LU09796	CRCQK00
	LU09795	CINSK00
	LU09789	CRCQK00
	LU09779	CUGRK00
	LU09778	CINSK00
	LU09776	CINSK00
	LU09767	COFSK00
	LU09758	CPFLK00
	LU09754	CPDTK00
	LU09753	CINSK00
	LU09749	CINSK00
	LU09714	CINSK00
	LU09703	CPUTK00
	LU09702	CPFLK00
	LU09701	CINSK00
	LU09680	CINSK00
	LU09671	CUGRK00
	LU09660	CPRFK02
	LU09659	CPRFK01
	LU09658	CPRFK00
	LU09642	CINSK00
	LU09638	CINSK00
	LU09635	CRCQK00

CA RS Level	Service	FMID
	LU09634	CINSK00
	LU09538	CPDAK00
	LU09455	CINSK00
	LU08684	CUTSK00
CAR2304	LU09641	CPDTK00
	LU09614	CPRAK00
	LU09594	CPFUK00
	LU09591	CPXNK00
	LU09573	CIDBK00
	LU09567	COFSK00
	LU09542	COFSK00
	LU09506	CRCUK00
	LU09493	CINSK00
	LU09492	CINSK00
	LU09484	CINSK00
	LU09483	CINSK00
	LU09478	CPUTK00
	LU09477	CPFLK00
	LU09472	CPLAK00
	LU09452	CIDBK00
	LU09449	CPSAK00
	LU09445	CPUTK00
	LU09444	CPRRK00
	LU09443	CPFUK00
	LU09442	CPFLK00
	LU09439	CINSK00
	LU09437	CPDTK00
	LU09434	CPDTK00
	LU09433	COFSK00
	LU09432	COFSK00
	LU09421	CINSK00
	LU09413	CPDTK00
	LU09412	CIDBK00
	LU09411	CUGRK00
	LU09409	CPUTK00
	LU09402	CUGRK00
	LU09401	CUGRK00
	LU09392	CPDTK00
	LU09378	CPFLK00
	LU09369	CPFLK00
	LU09368	CPRRK00
	LU09352	CPDAK00
	LU09351	CINSK00
	LU09348	CPDTK00
	LU09346	COFSK00
	LU09325	CPFUK00
	LU09324	CINSK00

CA RS Level	Service	FMID
	LU09323	CPLAK00
	LU09322	CINSK00
	LU09317	CIDBK00
	LU09302	CUGRK00
	LU09299	CUGRK00
	LU09296	CINSK00
	LU09262	CIDBK00
	LU09206	CRCCK00
	LU08885	CPPAK00
CAR2303	LU09280	CINSK00
	LU09279	CPLAK00
	LU09276	CSQ2100
	LU09264	CINSK00
	LU09222	CINSK00
	LU09208	CRCUK00
	LU09207	CINSK00
	LU09205	CINSK00
	LU09202	CINSK00
	LU09178	CINSK00
	LU09171	CPDAK00
	LU09170	CINSK00
	LU09168	CUGRK00
	LU09167	CPRFK02
	LU09166	CPRFK01
	LU09165	CPRFK00
	LU09159	CIDBK00
	LU09153	CINSK00
	LU09151	CINSK00
	LU09140	CINSK00
	LU09139	CRCXK00
	LU09138	CPLAK00
	LU09137	COFSK00
	LU09136	CINSK00
	LU09133	CPUTK00
	LU09132	CPFLK00
	LU09127	CINSK00
	LU09120	CPSAK00
	LU09119	CPDTK00
	LU09118	CINSK00
	LU09092	CIDBK00
	LU09090	CIDBK00
	LU09088	CUGRK00
	LU09087	CPUTK00
	LU09086	CINSK00
	LU09049	CPDTK00
	LU09043	CINSK00
	LU09027	CINSK00

CA RS Level	Service	FMID
	LU09010	CPLAK00
	LU09009	CINSK00
	LU09003	CPDTK00
	LU08986	CIDBK00
	LU08981	CINSK00
	LU08976	CINSK00
	LU08964	CINSK00
	LU08956	CINSK00
	LU08873	CPUTK00
	LU08872	CPFUK00
CAR2302	LU08864	CPSAK00
	LU08863	CPDTK00
	LU08862	CINSK00
	LU08861	CIDBK00
	LU08852	CPDTK00
	LU08848	CPLAK00
	LU08840	CPSAK00
	LU08839	CPDTK00
	LU08838	CINSK00
	LU08828	CPFLK00
	LU08822	CINSK00
	LU08820	CPSAK00
	LU08819	CINSK00
	LU08817	CPDTK00
	LU08816	CINSK00
	LU08797	CPFLK00
	LU08796	CINSK00
	LU08791	CUGRK00
	LU08749	CPRFK02
	LU08746	CUGRK00
	LU08743	CINSK00
	LU08739	CPUTK00
	LU08738	CPDAK00
	LU08737	CINSK00
	LU08726	CPLAK00
	LU08722	CINSK00
	LU08699	CRCUK00
	LU08698	CRCMK00
	LU08697	COFSK00
	LU08696	CINSK00
	LU08694	CINSK00
	LU08675	CPUTK00
	LU08674	CPDAK00
	LU08673	CINSK00
	LU08671	CUGRK00
	LU08637	CPLAK00
	LU08636	COFSK00

CA RS Level	Service	FMID
	LU08621	CUGRK00
	LU08618	CUGRK00
	LU08600	CPSAK00
	LU08599	CINSK00
	LU08556	CPUTK00
	LU08555	CPDAK00
	LU08554	CINSK00
	LU08535	CINSK00
	LU08408	CINSK00
	LU08289	CPDAK00
	LU08288	CINSK00
	LU08285	CUGRK00
	LU08284	CPUTK00
	LU08283	CPFLK00
CAR2301	LU08613	CPLAK00
	LU08583	CPLAK00
	LU08575	CINSK00
	LU08567	CPLAK00
	LU08553	CUGRK00
	LU08552	CPUTK00
	LU08551	CPRRK00
	LU08550	CPFLK00
	LU08549	CINSK00
	LU08532	CPDTK00
	LU08523	CIDBK00
	LU08509	CINSK00
	LU08508	CRCMK00
	LU08507	CINSK00
	LU08471	CINSK00
	LU08444	CIDBK00
	LU08441	CINSK00
	LU08410	CPFUK00
	LU08409	CUGRK00
	LU08403	CINSK00
	LU08392	CINSK00
	LU08383	CPFUK00
	LU08369	CPDTK00
	LU08328	CIDBK00
	LU08320	CIDBK00
	LU08318	CIDBK00
	LU08297	CPDAK00
	LU08293	CUGRK00
	LU08238	CINSK00
CAR2212	LU08311	CINSK00
	LU08296	CPFLK00
	LU08274	CIDBK00
	LU08255	CPFUK00

CA RS Level	Service	FMID
	LU08254	CPFUK00
	LU08242	CPUTK00
	LU08241	COFSK00
	LU08232	CIDBK00
	LU08211	CUGRK00
	LU08206	CPDTK00
	LU08184	CINSK00
	LU08183	CAHOK00
	LU08126	CPDAK00
	LU08125	CINSK00
	LU08108	CRCXK00
	LU08107	CPFUK00
	LU08106	CINSK00
	LU08101	CINSK00
	LU08097	COFSK00
	LU08087	CPLAK00
	LU08086	CINSK00
	LU08084	CINSK00
	LU08077	CINSK00
	LU08075	CIDBK00
	LU08064	CRCXK00
	LU08063	CRCUK00
	LU08062	CRCSK00
	LU08061	CPUTK00
	LU08060	CPSAK00
	LU08059	CPRFK00
	LU08058	CPRAK00
	LU08057	CPPAK00
	LU08056	CPLAK00
	LU08055	CPFUK00
	LU08054	CPDTK00
	LU08053	CPDAK00
	LU08052	CPBAK00
	LU08051	CINSK00
	LU08050	CIDBK00
	LU08049	CAHOK00
	LU08045	CUGRK00
	LU08044	CRCXK00
	LU08043	CRCUK00
	LU08042	CRCSK00
	LU08041	CRCQK00
	LU08039	CPUTK00
	LU08037	CPRAK00
	LU08036	CPPAK00
	LU08035	CPLAK00
	LU08032	CPDAK00
	LU08031	COFSK00

CA RS Level	Service	FMID
	LU08030	CINSK00
	LU07996	CPDAK00
	LU07976	CPUTK00
	LU07975	CPFLK00
	LU07954	CINSK00
	LU07931	COFSK00
	LU07878	CPDTK00
	LU07844	CPFUK00
	LU07836	CINSK00
	LU07835	CIDBK00
	LU07826	CPUTK00
	LU07825	CINSK00
	LU07824	CPLAK00
	LU07816	CIDBK00
	LU07815	CIDBK00
	LU07810	CINSK00
	LU07771	CUGRK00
CAR2211	LU07855	CINSK00
	LU07809	CPDTK00
	LU07797	CINSK00
	LU07779	CRCQK00
	LU07753	CIDBK00
	LU07744	CINSK00
	LU07743	CINSK00
	LU07734	CUGRK00
	LU07723	CPSAK00
	LU07722	CPDTK00
	LU07721	CINSK00
	LU07716	CIDBK00
	LU07714	CPFLK00
	LU07697	CIDBK00
	LU07688	COFSK00
	LU07687	CINSK00
	LU07679	CINSK00
	LU07668	CPLAK00
	LU07662	CINSK00
	LU07657	CPRFK02
	LU07654	CPRRK00
	LU07636	CIDBK00
	LU07635	CRCUK00
	LU07629	CINSK00
	LU07621	CPUTK00
	LU07620	CPRRK00
	LU07619	CPFUK00
	LU07618	CPFLK00
	LU07608	CINSK00
	LU07604	CINSK00

CA RS Level	Service	FMID
	LU07569	CINSK00
	LU07565	CPDAK00
	LU07564	CINSK00
	LU07563	CUGRK00
	LU07561	CPLAK00
	LU07559	CINSK00
	LU07558	CINSK00
	LU07544	CINSK00
	LU07524	CPDTK00
	LU07523	CINSK00
	LU07515	CPFUK00
	LU07504	CINSK00
	LU07499	CRCQK00
	LU07498	CINSK00
	LU07493	CINSK00
	LU07462	CPUTK00
	LU07461	CPFLK00
	LU07460	CINSK00
	LU07407	CINSK00
	LU07406	CIDBK00
	LU07329	CIDBK00
CAR2210	LU07488	CPDTK00
	LU07486	CPDAK00
	LU07484	CPUTK00
	LU07483	CPFLK00
	LU07459	COFSK00
	LU07436	CINSK00
	LU07418	CINSK00
	LU07416	CPDTK00
	LU07415	CPRFK02
	LU07388	CUGRK00
	LU07375	CPLAK00
	LU07373	CUGRK00
	LU07372	CINSK00
	LU07359	CINSK00
	LU07346	CINSK00
	LU07315	CINSK00
	LU07311	CUGRK00
	LU07278	CRCQK00
	LU07272	CRCXK00
	LU07271	CRCUK00
	LU07270	CRCMK00
	LU07269	CPFUK00
	LU07268	CINSK00
	LU07265	CUGRK00
	LU07264	CPFLK00
	LU07262	CIDBK00

CA RS Level	Service	FMID
	LU07257	COFSK00
	LU07254	CINSK00
	LU07248	CINSK00
	LU07235	CINSK00
	LU07221	CPDAK00
	LU07209	CRCXK00
	LU07208	CRCUK00
	LU07207	CRCCK00
	LU07206	CRCQK00
	LU07205	CRCMK00
	LU07204	CINSK00
	LU07203	CAHOK00
	LU07187	CINSK00
	LU07183	CPLAK00
	LU07181	CIDBK00
	LU07180	CPFUK00
	LU07168	CUGRK00
	LU07149	CIDBK00
	LU07146	CIDBK00
	LU07096	COFSK00
	LU07078	CINSK00
	LU07065	CPLAK00
	LU07004	CPDAK00
	LU06826	CPUTK00
CAR2209	S016260	CPRFK02
	S016259	CPRFK01
	S016167	CPRFK02
	S016166	CPRFK01
	S016151	CPRFK02
	S016150	CPRFK01
	S015777	CPRFK02
	S015776	CPRFK01
	S014406	CPRFK02
	S014405	CPRFK01
	S014337	CIDBK00
	S013732	CPRFK02
	S013731	CPRFK01
	LU07110	CIDBK00
	LU07100	CPDTK00
	LU07094	CPRFK02
	LU07093	CPRFK01
	LU07092	CPRFK00
	LU07077	CINSK00
	LU07070	CINSK00
	LU07067	CRCXK00
	LU07047	CIDBK00
	LU07005	CIDBK00

CA RS Level	Service	FMID
	LU06991	CPRFK02
	LU06990	CPRFK01
	LU06989	CPRFK00
	LU06976	CPUTK00
	LU06975	CPFUK00
	LU06965	CIDBK00
	LU06960	CIDBK00
	LU06936	CINSK00
	LU06928	CPDTK00
	LU06921	CINSK00
	LU06920	CRCUK00
	LU06919	CRCQK00
	LU06918	CPFUK00
	LU06914	COFSK00
	LU06913	CINSK00
	LU06910	CINSK00
	LU06887	CINSK00
	LU06866	CIDBK00
	LU06863	CPRAK00
	LU06862	CUGRK00
	LU06858	CUGRK00
	LU06854	CPDAK00
	LU06842	CIDBK00
	LU06839	CPRFK00
	LU06836	CPLAK00
	LU06792	CINSK00
	LU06791	CPUTK00
	LU06790	CPFUK00
	LU06789	CPFLK00
	LU06753	CRCXK00
	LU06752	CRCUK00
	LU06751	CRCSK00
	LU06750	CRCQK00
	LU06747	CRCMK00
	LU06746	CAHOK00
	LU06744	CPDTK00
	LU06709	CPRFK02
	LU06708	CPRFK01
	LU06688	CINSK00
	LU06687	CIDBK00
	LU06649	CTGRK00
	LU06503	CIDBK00
	LU05683	CPRFK02
	LU05682	CPRFK01
	LU05171	CPRFK02
	LU05170	CPRFK01
	LU04424	CPRFK02

CA RS Level	Service	FMID
	LU04423	CPRFK01
	LU04410	CEU9K00
	LU04379	CPRFK02
	LU04353	CEU9K00
	LU01976	CEU9K00
	LU01323	CPRFK02
	LU01322	CPRFK01
	LU01104	CPRFK02
	LU01103	CPRFK01
	LU00583	CPRFK02
	LU00582	CPRFK01
	LU00252	CPRFK02
	LU00251	CPRFK01
CAR2208	LU06761	CPDAK00
	LU06755	CINSK00
	LU06707	CPRFK00
	LU06699	CPFUK00
	LU06694	CPDTK00
	LU06684	CPPAK00
	LU06683	CPSAK00
	LU06680	CINSK00
	LU06662	CPFUK00
	LU06661	CPLAK00
	LU06635	CINSK00
	LU06632	CRCXK00
	LU06631	CPLAK00
	LU06630	COFSK00
	LU06629	CINSK00
	LU06625	CINSK00
	LU06611	CIDBK00
	LU06606	CINSK00
	LU06601	CINSK00
	LU06596	CPDTK00
	LU06591	CPUTK00
	LU06590	CPFLK00
	LU06584	CPDAK00
	LU06577	CRCUK00
	LU06576	CINSK00
	LU06570	CUGRK00
	LU06569	CPRAK00
	LU06568	CINSK00
	LU06553	CIDBK00
	LU06547	CIDBK00
	LU06546	CPLAK00
	LU06541	CINSK00
	LU06526	CUGRK00
	LU06525	CPRAK00

CA RS Level	Service	FMID
	LU06524	CPLAK00
	LU06515	CUGRK00
	LU06511	CIDBK00
	LU06508	CINSK00
	LU06505	CPDTK00
	LU06460	CPDTK00
	LU06459	CINSK00
	LU06433	CPLAK00
	LU06432	CPRAK00
	LU06430	CINSK00
	LU06423	CUGRK00
	LU06418	CPFUK00
	LU06414	CRCUK00
	LU06413	CRCQK00
	LU06412	CINSK00
	LU06401	CUGRK00
	LU06400	CPRAK00
	LU06399	CPLAK00
	LU06398	CINSK00
	LU06397	CPFUK00
	LU06394	CPDAK00
	LU06366	CPUTK00
	LU06365	CPFLK00
	LU06364	CINSK00
	LU06280	CPLAK00
CAR2207	LU06419	CIDBK00
	LU06415	CPDTK00
	LU06407	CINSK00
	LU06379	CIDBK00
	LU06361	CIDBK00
	LU06357	CSQ2100
	LU06348	CINSK00
	LU06321	CINSK00
	LU06311	CTGRK00
	LU06310	CRCUK00
	LU06309	CINSK00
	LU06307	CPDAK00
	LU06305	CPFUK00
	LU06304	CPFLK00
	LU06302	CRCQK00
	LU06301	CPDAK00
	LU06300	CINSK00
	LU06299	CPUTK00
	LU06298	CINSK00
	LU06297	CINSK00
	LU06292	CINSK00
	LU06291	CPDTK00

CA RS Level	Service	FMID
	LU06289	CPUTK00
	LU06285	CIDBK00
	LU06284	CPFUK00
	LU06278	COFSK00
	LU06265	CIDBK00
	LU06264	CPDTK00
	LU06261	CINSK00
	LU06257	COFSK00
	LU06230	COFSK00
	LU06229	CIDBK00
	LU06218	CIDBK00
	LU06217	CPLAK00
	LU06216	CINSK00
	LU06213	CUGRK00
	LU06206	CPUTK00
	LU06188	CIDBK00
	LU06172	CINSK00
	LU06166	CIDBK00
	LU06163	CPFLK00
	LU06161	CIDBK00
	LU06154	CPDTK00
	LU06152	CRCQK00
	LU06148	CINSK00
	LU06141	CPDAK00
	LU06140	CIDBK00
	LU06137	CPSAK00
	LU06136	CRCQK00
	LU06120	CINSK00
	LU06117	CINSK00
	LU06115	CINSK00
	LU06112	CPDTK00
	LU06109	CIDBK00
	LU06076	CPFLK00
	LU06052	CINSK00
	LU06051	CINSK00
	LU05989	CINSK00
	LU05871	CINSK00
CAR2206	LU06107	CINSK00
	LU06100	CIDBK00
	LU06087	CUGRK00
	LU06086	CPUTK00
	LU06085	CPRFK00
	LU06084	CPLAK00
	LU06083	CPFUK00
	LU06082	CPDAK00
	LU06081	CINSK00
	LU06080	CPUTK00

CA RS Level	Service	FMID
	LU06079	CPRRK00
	LU06078	CPFUK00
	LU06077	CPFLK00
	LU06074	CPSAK00
	LU06073	CINSK00
	LU06050	CPUTK00
	LU06049	CPSAK00
	LU06048	CPDTK00
	LU06047	COFSK00
	LU06046	CINSK00
	LU06045	CIDBK00
	LU06034	CUGRK00
	LU06033	CIDBK00
	LU06000	CUGRK00
	LU05999	CIDBK00
	LU05998	CPDTK00
	LU05997	CINSK00
	LU05995	CINSK00
	LU05994	CIDBK00
	LU05993	CINSK00
	LU05987	CRCXK00
	LU05984	CPPAK00
	LU05976	CIDBK00
	LU05973	CPLAK00
	LU05971	CINSK00
	LU05967	CINSK00
	LU05954	CPLAK00
	LU05931	CINSK00
	LU05913	CUGRK00
	LU05900	CUGRK00
	LU05889	CRCXK00
	LU05888	CRCUK00
	LU05887	CPFUK00
	LU05886	CINSK00
	LU05884	CPUTK00
	LU05883	CPFLK00
	LU05881	CPFUK00
	LU05880	CPFLK00
	LU05879	CIDBK00
	LU05876	CINSK00
	LU05875	CPDTK00
	LU05873	CPDTK00
	LU05869	CUGRK00
	LU05868	CPUTK00
	LU05867	CPRRK00
	LU05866	CPFLK00
	LU05865	CINSK00

CA RS Level	Service	FMID
	LU05857	CUGRK00
	LU05851	CIDBK00
	LU05850	CUGRK00
	LU05836	CRCCK00
	LU05823	CPDTK00
	LU05816	CUGRK00
	LU05806	COFSK00
	LU05798	CINSK00
	LU05797	CRCQK00
	LU05796	CPDTK00
	LU05794	CINSK00
	LU05790	CINSK00
	LU05788	CIDBK00
	LU05775	CINSK00
	LU05767	CIDBK00
	LU05764	CINSK00
	LU05761	CPSAK00
	LU05749	CIDBK00
	LU05747	CPFUK00
	LU05739	CINSK00
	LU05734	CPLAK00
	LU05732	CPRAK00
	LU05717	CINSK00
	LU05701	CINSK00
	LU05685	CIDBK00
	LU05635	CRCXK00
	LU05634	CRCUK00
	LU05633	CRCCK00
	LU05632	CRCQK00
	LU05631	CRCMK00
	LU05630	CPFUK00
	LU05629	CINSK00
	LU05628	CAHOK00
	LU05597	CPPAK00
	LU05596	CINSK00
	LU05577	CPLAK00
	LU05562	CPDTK00
	LU05444	CINSK00
CAR2205	LU05695	CUGRK00
	LU05687	CIDBK00
	LU05684	CUGRK00
	LU05681	CPRFK00
	LU05663	CPDAK00
	LU05647	CIDBK00
	LU05606	CIDBK00
	LU05600	CIDBK00
	LU05590	CINSK00

CA RS Level	Service	FMID
	LU05564	CIDBK00
	LU05555	CRCQK00
	LU05547	CINSK00
	LU05545	CPDTK00
	LU05535	CPUTK00
	LU05534	CPFLK00
	LU05530	CPDTK00
	LU05528	COFSK00
	LU05520	CINSK00
	LU05515	CPSAK00
	LU05511	CINSK00
	LU05505	CRCQK00
	LU05503	CPDTK00
	LU05497	CIDBK00
	LU05496	CPLAK00
	LU05495	CPDAK00
	LU05464	CIDBK00
	LU05461	CPSAK00
	LU05457	CPFLK00
	LU05423	CPUTK00
	LU05422	CUGRK00
	LU05408	CRCQK00
	LU05407	CINSK00
	LU05401	CINSK00
	LU05397	CPFUK00
	LU05396	CINSK00
	LU05387	CUGRK00
	LU05382	CINSK00
	LU05377	CAHOK00
	LU05367	CINSK00
	LU05366	CINSK00
	LU05364	CINSK00
	LU05361	CINSK00
	LU05359	CINSK00
	LU05352	CPLAK00
	LU05350	CUGRK00
	LU05349	CPUTK00
	LU05348	CPFLK00
	LU05347	CINSK00
	LU05335	COFSK00
	LU05331	CINSK00
	LU05313	CPPAK00
	LU05312	CINSK00
	LU05305	CPUTK00
	LU05304	CPFUK00
	LU05296	CINSK00
	LU05292	CPUTK00

CA RS Level	Service	FMID
	LU05271	CIDBK00
	LU05225	CPFLK00
	LU05162	CINSK00
	LU05161	CINSK00
	LU05155	CPLAK00
CAR2204	LU05278	CINSK00
	LU05277	CRCQK00
	LU05276	CINSK00
	LU05265	CPDTK00
	LU05243	CINSK00
	LU05242	CINSK00
	LU05224	CIDBK00
	LU05211	CIDBK00
	LU05210	CUGRK00
	LU05209	CPUTK00
	LU05208	CPRRK00
	LU05207	CPFLK00
	LU05206	CINSK00
	LU05177	CRCUK00
	LU05176	CRCQK00
	LU05175	CINSK00
	LU05169	CPRFK00
	LU05156	CINSK00
	LU05152	CPDTK00
	LU05142	CINSK00
	LU05140	CPRAK00
	LU05127	CPDTK00
	LU05118	CRCUK00
	LU05117	CPUTK00
	LU05116	CPPAK00
	LU05115	CPLAK00
	LU05114	CPFUK00
	LU05113	CPDTK00
	LU05112	CPDAK00
	LU05111	CINSK00
	LU05110	CSQ2100
	LU05109	CINSK00
	LU05103	CIDBK00
	LU05102	CPDAK00
	LU05098	CIDBK00
	LU05091	CRCCK00
	LU05090	CRCMK00
	LU05089	CINSK00
	LU05085	CPDAK00
	LU05080	CINSK00
	LU05060	CPDTK00
	LU05059	CINSK00

CA RS Level	Service	FMID
	LU05058	CIDBK00
	LU05052	CPDTK00
	LU05036	CRCQK00
	LU05035	COFSK00
	LU05032	CIDBK00
	LU05031	CINSK00
	LU05025	CPDTK00
	LU05019	CPLAK00
	LU05006	CIDBK00
	LU04990	CPUTK00
	LU04989	CPDAK00
	LU04988	CINSK00
	LU04982	CPUTK00
	LU04981	CPFUK00
	LU04980	CPFLK00
	LU04966	CUGRK00
	LU04965	CPRRK00
	LU04962	CUGRK00
	LU04961	CUGRK00
	LU04960	CINSK00
	LU04953	CRCCK00
	LU04952	CRCQK00
	LU04951	CRCMK00
	LU04950	CINSK00
	LU04949	CAHOK00
	LU04945	CINSK00
	LU04932	CRCUK00
	LU04931	CRCMK00
	LU04930	CINSK00
	LU04919	CIDBK00
	LU04908	CINSK00
	LU04896	CINSK00
	LU04875	CRCMK00
	LU04874	CINSK00
	LU04813	CINSK00
	LU04797	CPPAK00
	LU04103	CUGRK00
	LU04102	CPLAK00
CAR2203	LU04880	CPRAK00
	LU04870	CUGRK00
	LU04869	CPUTK00
	LU04868	CPFUK00
	LU04857	CINSK00
	LU04855	CPXNK00
	LU04842	CPLAK00
	LU04834	CRCQK00
	LU04818	CIDBK00

CA RS Level	Service	FMID
	LU04803	CIDBK00
	LU04795	CPDTK00
	LU04789	CPFUK00
	LU04788	CPLAK00
	LU04746	CINSK00
	LU04733	CPSAK00
	LU04732	CUGRK00
	LU04675	CPFUK00
	LU04657	CRCQK00
	LU04656	CINSK00
	LU04654	CINSK00
	LU04653	CPSAK00
	LU04637	CPRRK00
	LU04636	CUGRK00
	LU04621	CINSK00
	LU04619	CUGRK00
	LU04618	CPUTK00
	LU04616	CPFLK00
	LU04586	CPDTK00
	LU04573	CINSK00
	LU04566	CIDBK00
	LU04562	CPLAK00
	LU04561	CSQ2100
	LU04530	CRCQK00
	LU04529	CINSK00
	LU04498	CIDBK00
	LU04493	CINSK00
	LU04490	CPDTK00
	LU04489	CRCMK00
	LU04488	CINSK00
	LU04486	CPPAK00
	LU04485	CPBAK00
	LU04484	CINSK00
	LU04483	CINSK00
	LU04464	CRCMK00
	LU04463	CINSK00
	LU04459	CINSK00
	LU04458	CINSK00
	LU04452	CINSK00
	LU04444	COFSK00
	LU04370	CUGRK00
	LU04369	CINSK00
CAR2202	LU04462	CSQ2100
	LU04443	CINSK00
	LU04436	CUTSK00
	LU04435	CUGRK00
	LU04434	CTGRK00

CA RS Level	Service	FMID
	LU04433	CRCXK00
	LU04432	CRCUK00
	LU04431	CRCSK00
	LU04430	CRCQK00
	LU04429	CRCMK00
	LU04428	CPXNK00
	LU04427	CPUTK00
	LU04426	CPSAK00
	LU04425	CPRRK00
	LU04422	CPRFK00
	LU04421	CPRAK00
	LU04420	CPPAK00
	LU04419	CPLAK00
	LU04418	CPFUK00
	LU04417	CPFLK00
	LU04416	CPDTK00
	LU04415	CPDAK00
	LU04414	CPBAK00
	LU04413	COFSK00
	LU04412	CINSK00
	LU04411	CIDBK00
	LU04409	CAHOK00
	LU04405	CINSK00
	LU04400	CINSK00
	LU04399	CINSK00
	LU04376	CINSK00
	LU04374	CIDBK00
	LU04371	CIDBK00
	LU04358	CTGRK00
	LU04357	CPSAK00
	LU04356	CPDTK00
	LU04355	CINSK00
	LU04354	CIDBK00
	LU04339	CPDTK00
	LU04287	CIDBK00
	LU04282	CIDBK00
	LU04264	CINSK00
	LU04263	CPDTK00
	LU04262	CINSK00
	LU04244	CRCQK00
	LU04243	CINSK00
	LU04232	CPSAK00
	LU04231	CPDTK00
	LU04230	CINSK00
	LU04229	CIDBK00
	LU04222	CIDBK00
	LU04221	CPDAK00

CA RS Level	Service	FMID
	LU04220	CINSK00
	LU04217	CIDBK00
	LU04202	COFSK00
	LU04167	CINSK00
	LU04161	CPUTK00
	LU04160	CPFUK00
	LU04159	CPFLK00
	LU04151	CRCXK00
	LU04150	CRCUK00
	LU04149	CINSK00
	LU04146	CINSK00
	LU04136	CINSK00
	LU04123	CPUTK00
	LU04122	CPDAK00
	LU04121	CINSK00
	LU04100	CIDBK00
	LU04097	CIDBK00
	LU04085	COFSK00
	LU04084	CINSK00
	LU04082	CINSK00
	LU04006	CINSK00
	LU04004	CPLAK00
	LU03822	CPPAK00
	LU02151	CINSK00
CAR2201	LU04094	CINSK00
	LU04027	CIDBK00
	LU04026	CIDBK00
	LU04015	CPDTK00
	LU03998	CPDTK00
	LU03997	CINSK00
	LU03961	CINSK00
	LU03955	CINSK00
	LU03954	CIDBK00
	LU03953	CINSK00
	LU03952	CINSK00
	LU03935	CRCQK00
	LU03929	CIDBK00
	LU03926	CRCXK00
	LU03925	CPLAK00
	LU03924	COFSK00
	LU03923	CINSK00
	LU03918	CPSAK00
	LU03917	CPDTK00
	LU03907	CINSK00
	LU03879	CINSK00
	LU03878	CINSK00
	LU03869	CINSK00

CA RS Level	Service	FMID
	LU03859	CUGRK00
	LU03856	CINSK00
	LU03847	CPUTK00
	LU03846	CPFLK00
	LU03838	CINSK00
	LU03827	CPFUK00
	LU03814	CPDAK00
	LU03813	CINSK00
	LU03809	CPDTK00
	LU03808	CINSK00
	LU03789	CINSK00
	LU03788	CINSK00
	LU03762	CPDAK00
	LU03761	CINSK00
	LU03760	CSQ2100
	LU03759	CUGRK00
	LU03749	CPLAK00
	LU03742	CPFLK00
	LU03735	CUGRK00
	LU03734	CPUTK00
	LU03733	CPRRK00
	LU03732	CPFUK00
	LU03731	CPLAK00
	LU03712	CINSK00
	LU03710	CPDTK00
	LU03709	CINSK00
	LU03706	CPRAK00
	LU03703	CINSK00
	LU03691	CINSK00
	LU03686	CPUTK00
	LU03685	CPRRK00
	LU03684	CPFLK00
	LU03664	CRCXK00
	LU03663	CRCUK00
	LU03662	CRCQK00
	LU03661	CRCMK00
	LU03660	CPLAK00
	LU03659	COFSK00
	LU03657	CINSK00
	LU03499	CINSK00
CAR2112	LU03680	CPDAK00
	LU03673	CIDBK00
	LU03667	CRCUK00
	LU03666	CINSK00
	LU03629	CINSK00
	LU03601	CPSAK00
	LU03580	CUGRK00

CA RS Level	Service	FMID
	LU03579	CPUTK00
	LU03578	CPFUK00
	LU03577	CPFLK00
	LU03520	CINSK00
	LU03519	CPUTK00
	LU03500	CPLAK00
	LU03492	CPLAK00
	LU03463	CINSK00
	LU03461	CPDTK00
	LU03455	CIDBK00
	LU03453	CIDBK00
	LU03443	CUGRK00
	LU03437	CRCUK00
	LU03435	CIDBK00
	LU03417	CINSK00
	LU03406	CPDTK00
	LU03401	CPUTK00
	LU03400	CPRRK00
	LU03399	CPFLK00
	LU03391	CINSK00
	LU03386	CPDTK00
	LU03384	CPFUK00
	LU03367	CINSK00
	LU03353	CPFUK00
	LU03348	CIDBK00
	LU03344	CUGRK00
	LU03338	CPPAK00
	LU03337	CINSK00
	LU03326	CUGRK00
	LU03324	CUGRK00
	LU03323	CPUTK00
	LU03318	CRCXK00
	LU03317	CRCQK00
	LU03316	CPLAK00
	LU03315	COFSK00
	LU03314	CINSK00
	LU03309	CINSK00
	LU03308	CRCQK00
	LU03291	CINSK00
	LU03286	CIDBK00
	LU03282	CPLAK00
	LU03265	CPFUK00
	LU03252	CIDBK00
	LU02861	CINSK00
CAR2111	LU03261	CPDTK00
	LU03259	CINSK00
	LU03256	CIDBK00

CA RS Level	Service	FMID
	LU03250	CPLAK00
	LU03235	CUGRK00
	LU03234	CPUTK00
	LU03233	CPRRK00
	LU03232	CPFUK00
	LU03231	CPFLK00
	LU03228	CPLAK00
	LU03221	CINSK00
	LU03220	CRCQK00
	LU03214	CUGRK00
	LU03213	CPUTK00
	LU03212	CPRRK00
	LU03211	CPFUK00
	LU03210	CPFLK00
	LU03209	CINSK00
	LU03195	CIDBK00
	LU03192	CPUTK00
	LU03191	CPFLK00
	LU03190	CINSK00
	LU03187	CPUTK00
	LU03186	CUGRK00
	LU03162	CIDBK00
	LU03152	CPDAK00
	LU03146	CIDBK00
	LU03142	CINSK00
	LU03116	CPSAK00
	LU03101	CPBAK00
	LU03093	CPDTK00
	LU03091	CIDBK00
	LU03073	CUGRK00
	LU03035	CPDAK00
	LU03034	CPRRK00
	LU03033	CPUTK00
	LU03032	CPFUK00
	LU03023	CIDBK00
	LU03018	CPDTK00
	LU02985	CIDBK00
	LU02979	CPLAK00
	LU02945	CINSK00
	LU02886	CIDBK00
	LU02816	CPLAK00
	LU02728	CPUTK00
	LU02727	CPFUK00
	LU02726	CINSK00
	LU02712	CUGRK00
CAR2110	SO14389	CIDBK00
	LU02944	CPDTK00

CA RS Level	Service	FMID
	LU02894	CRCQK00
	LU02866	COFSK00
	LU02841	CIDBK00
	LU02829	CIDBK00
	LU02813	CINSK00
	LU02808	CINSK00
	LU02800	CIDBK00
	LU02796	CPDTK00
	LU02785	CPDAK00
	LU02767	CPLAK00
	LU02762	CUGRK00
	LU02708	CIDBK00
	LU02706	CPDTK00
	LU02665	CRCQK00
	LU02661	CINSK00
	LU02646	CIDBK00
	LU02642	CIDBK00
	LU02641	CPFLK00
	LU02634	CIDBK00
	LU02633	COFSK00
	LU02614	CINSK00
	LU02609	CINSK00
	LU02597	CRCQK00
	LU02577	CPBAK00
	LU02516	CIDBK00
	LU02489	CINSK00
	LU02472	CINSK00
	LU02471	CINSK00
	LU02280	COFSK00
	LU02279	CINSK00
CAR2109	LU02564	CRCQK00
	LU02554	CPDTK00
	LU02529	CUGRK00
	LU02524	CPDTK00
	LU02493	CPPAK00
	LU02492	CINSK00
	LU02485	CPFLK00
	LU02470	CPFUK00
	LU02456	CPDAK00
	LU02455	CINSK00
	LU02440	CPFUK00
	LU02439	CIDBK00
	LU02437	COFSK00
	LU02436	CPPAK00
	LU02428	CIDBK00
	LU02420	CINSK00
	LU02387	COFSK00

CA RS Level	Service	FMID
	LU02385	CUGRK00
	LU02383	CINSK00
	LU02381	CPLAK00
	LU02363	CINSK00
	LU02345	CINSK00
	LU02340	CIDBK00
	LU02335	CPFUK00
	LU02325	CIDBK00
	LU02307	CUGRK00
	LU02303	CIDBK00
	LU02290	CPDTK00
	LU02286	CPDTK00
	LU02271	CPDTK00
	LU02258	CPFLK00
	LU02243	CPFLK00
	LU02242	CINSK00
	LU02231	CPUTK00
	LU02230	CPLAK00
	LU02229	CINSK00
	LU02212	CINSK00
	LU02166	CINSK00
	LU02119	CTGRK00
	LU02118	CIDBK00
	LU02116	CINSK00
	LU02095	CPDAK00
CAR2108	LU02220	CPDTK00
	LU02213	CPLAK00
	LU02211	CRCUK00
	LU02197	CINSK00
	LU02164	CINSK00
	LU02143	CUTSK00
	LU02142	CIDBK00
	LU02133	CPSAK00
	LU02132	CPDTK00
	LU02131	CINSK00
	LU02124	CINSK00
	LU02117	CINSK00
	LU02108	CPDTK00
	LU02096	CIDBK00
	LU02093	CIDBK00
	LU02062	CPLAK00
	LU02061	CINSK00
	LU02053	CINSK00
	LU02048	CUGRK00
	LU02033	CIDBK00
	LU02031	CIDBK00
	LU02030	CRCQK00

CA RS Level	Service	FMID
	LU02029	CINSK00
	LU02008	CPFLK00
	LU02007	CPUTK00
	LU02006	CPFUK00
	LU02005	CINSK00
	LU01999	CINSK00
	LU01998	CUGRK00
	LU01997	CTGRK00
	LU01996	CRCXK00
	LU01995	CRCUK00
	LU01994	CRC SK00
	LU01993	CRCQK00
	LU01992	CPXNK00
	LU01991	CPUTK00
	LU01990	CPSAK00
	LU01989	CPRRK00
	LU01988	CPRFK00
	LU01987	CPRAK00
	LU01986	CPPAK00
	LU01985	CPLAK00
	LU01984	CPFUK00
	LU01983	CPFLK00
	LU01982	CPDTK00
	LU01981	CPDAK00
	LU01980	CPBAK00
	LU01979	COFSK00
	LU01978	CINSK00
	LU01977	CIDBK00
	LU01975	CAHOK00
	LU01958	CINSK00
	LU01950	CPLAK00
	LU01949	CINSK00
	LU01944	CRCXK00
	LU01939	CPFUK00
	LU01937	COFSK00
	LU01936	CUGRK00
	LU01934	CINSK00
	LU01933	CPDTK00
	LU01930	CPUTK00
	LU01927	CINSK00
	LU01922	CINSK00
	LU01845	CIDBK00
	LU01832	COFSK00
	LU01784	CINSK00
	LU01290	CINSK00
CAR2107	LU01893	CUGRK00
	LU01892	CPPAK00

CA RS Level	Service	FMID
	LU01891	CINSK00
	LU01869	CPLAK00
	LU01860	CPDAK00
	LU01841	CPDTK00
	LU01837	CINSK00
	LU01829	CIDBK00
	LU01799	CPDTK00
	LU01760	CINSK00
	LU01757	CINSK00
	LU01750	CIDBK00
	LU01732	CPSAK00
	LU01727	CPFUK00
	LU01720	CPFLK00
	LU01717	CUGRK00
	LU01706	CRCQK00
	LU01705	CINSK00
	LU01696	CINSK00
	LU01695	CPRAK00
	LU01694	CINSK00
	LU01683	CINSK00
	LU01673	CINSK00
	LU01666	CIDBK00
	LU01648	CINSK00
	LU01626	CPDAK00
	LU01625	CINSK00
	LU01610	CINSK00
	LU01581	CIDBK00
	LU01575	CINSK00
	LU01556	CIDBK00
	LU01551	CPPAK00
	LU01550	CINSK00
	LU01543	CPSAK00
	LU01542	CPDTK00
	LU01541	CIDBK00
	LU01538	CPLAK00
	LU01534	CUGRK00
	LU01526	CINSK00
	LU01525	CIDBK00
	LU01513	CIDBK00
	LU01508	CINSK00
	LU01405	CINSK00
	LU01362	CINSK00
	LU01357	CINSK00
CAR2106	LU01494	CINSK00
	LU01467	CPDTK00
	LU01432	CSQ2100
	LU01415	CPLAK00

CA RS Level	Service	FMID
	LU01410	CRCQK00
	LU01396	CPDTK00
	LU01393	CPDTK00
	LU01385	CPLAK00
	LU01384	CINSK00
	LU01380	CPUTK00
	LU01379	CPFLK00
	LU01378	CINSK00
	LU01376	CINSK00
	LU01367	CINSK00
	LU01352	CPUTK00
	LU01351	CPRRK00
	LU01350	CPFUK00
	LU01349	CPFLK00
	LU01338	CPDAK00
	LU01330	CRCQK00
	LU01321	CPRFK00
	LU01311	CPFUK00
	LU01293	CIDBK00
	LU01292	CUGRK00
	LU01291	CPUTK00
	LU01286	CINSK00
	LU01275	CINSK00
	LU01265	CINSK00
	LU01222	COFSK00
	LU01215	CPDTK00
	LU01208	CRCQK00
	LU01182	CUGRK00
	LU01181	CPRAK00
	LU01180	CPLAK00
	LU01179	COFSK00
	LU01178	CINSK00
	LU01175	CIDBK00
	LU01166	CIDBK00
	LU01165	CPFUK00
	LU01164	CIDBK00
	LU01151	CINSK00
	LU01135	CUGRK00
	LU01127	CUGRK00
	LU01122	COFSK00
	LU01121	CINSK00
	LU01118	CINSK00
	LU01107	COFSK00
	LU01106	CINSK00
	LU01102	CPRFK00
	LU01089	CPDAK00
	LU01043	CPLAK00

CA RS Level	Service	FMID
CAR2105	LU00983	CPFLK00
	LU01126	CPDAK00
	LU01100	CIDBK00
	LU01068	CPPAK00
	LU01056	CINSK00
	LU01053	COFSK00
	LU01042	CIDBK00
	LU01041	CIDBK00
	LU01040	CPLAK00
	LU01039	CINSK00
	LU01035	CIDBK00
	LU01030	CIDBK00
	LU01002	CPDTK00
	LU00989	CINSK00
	LU00982	CIDBK00
	LU00973	CUGRK00
	LU00968	CINSK00
	LU00964	CIDBK00
	LU00940	CPLAK00
	LU00938	CPDTK00
	LU00937	CINSK00
	LU00925	CINSK00
	LU00923	CPUTK00
	LU00921	CINSK00
	LU00914	CINSK00
	LU00903	CPLAK00
	LU00891	CPDAK00
	LU00890	CINSK00
	LU00887	CPUTK00
	LU00886	CPFUK00
	LU00882	CPLAK00
	LU00881	CIDBK00
	LU00863	CPFUK00
	LU00859	CPSAK00
	LU00858	CPDTK00
	LU00847	CINSK00
	LU00839	CINSK00
	LU00795	CUGRK00
	LU00794	CINSK00
	LU00769	CRCXK00
	LU00768	CPDTK00
	LU00759	CPLAK00
	LU00698	CINSK00
	LU00697	CIDBK00
	LU00678	CINSK00
	LU00592	CINSK00
	LU00581	CPRFK00

CA RS Level	Service	FMID
CAR2104	LU00728	CUGRK00
	LU00727	CPUTK00
	LU00726	CPRRK00
	LU00725	CPLAK00
	LU00724	CPFLK00
	LU00723	CINSK00
	LU00689	CUGRK00
	LU00684	CPDTK00
	LU00672	CPLAK00
	LU00659	CSQ2100
	LU00646	CPPAK00
	LU00645	CPBAK00
	LU00644	COFSK00
	LU00643	CINSK00
	LU00639	CINSK00
	LU00635	CPDAK00
	LU00613	CINSK00
	LU00597	CPLAK00
	LU00576	CPSAK00
	LU00568	CINSK00
	LU00565	CSQ2100
	LU00549	CPDTK00
	LU00545	CIDBK00
	LU00532	CRCQK00
	LU00531	COFSK00
	LU00530	CINSK00
	LU00524	CPDTK00
	LU00523	CINSK00
	LU00511	CRCUK00
	LU00510	CINSK00
	LU00509	CINSK00
	LU00508	CINSK00
	LU00500	CPSAK00
	LU00480	CPLAK00
	LU00475	CPDAK00
	LU00452	CPRRK00
	LU00450	CRCXK00
	LU00449	CRCUK00
	LU00448	CRCMK00
	LU00447	CPFUK00
	LU00446	CINSK00
	LU00440	CPPAK00
	LU00439	CPBAK00
	LU00438	CINSK00
	LU00437	CPUTK00
	LU00436	CPFLK00
	LU00435	CINSK00

CA RS Level	Service	FMID
	LU00434	CIDBK00
	LU00433	CRCUK00
	LU00432	CINSK00
	LU00427	CIDBK00
	LU00426	CINSK00
	LU00413	CRCQK00
	LU00412	CINSK00
	LU00411	CRCXK00
	LU00402	CPDTK00
	LU00400	CPRFK00
	LU00399	CINSK00
	LU00381	CPDAK00
	LU00368	CINSK00
	LU00359	CINSK00
	LU00342	CRCXK00
	LU00341	CRCUK00
	LU00340	CRCSK00
	LU00339	CRCQK00
	LU00338	CRCMK00
	LU00337	CPUTK00
	LU00336	CPRAK00
	LU00335	CPLAK00
	LU00334	CPDTK00
	LU00333	CPDAK00
	LU00332	CINSK00
	LU00331	CIDBK00
	LU00330	CAHOK00
	LU00314	CPDAK00
	LU00304	CPUTK00
	LU00303	CPRRK00
	LU00302	CPFUK00
	LU00301	CPFLK00
	LU00299	CIDBK00
	LU00283	CINSK00
	LU00277	CINSK00
	LU00275	CUGRK00
	LU00177	CPUTK00
CAR2103	SO16295	CIDBK00
	SO15817	CUGRK00
	SO14357	CIDBK00
	SO13729	CRCQK00
	LU00356	CPLAK00
	LU00329	CPDTK00
	LU00282	CIDBK00
	LU00281	CPFUK00
	LU00257	CPDAK00
	LU00256	CPDAK00

CA RS Level	Service	FMID
	LU00254	CINSK00
	LU00253	CIDBK00
	LU00250	CPRFK00
	LU00248	CPUTK00
	LU00247	CPFLK00
	LU00246	CIDBK00
	LU00242	CINSK00
	LU00240	CPDTK00
	LU00238	CPLAK00
	LU00237	CINSK00
	LU00227	CINSK00
	LU00217	CPFUK00
	LU00216	CINSK00
	LU00207	CPRFK00
	LU00194	CPUTK00
	LU00178	CPFLK00
	LU00176	CPDTK00
	LU00165	CPLAK00
	LU00162	CINSK00
	LU00159	CIDBK00
	LU00152	CUGRK00
	LU00147	CRCQK00
	LU00146	CPDAK00
	LU00145	CINSK00
	LU00141	CUGRK00
	LU00140	CPUTK00
	LU00139	CPRRK00
	LU00138	CPLAK00
	LU00137	CPFUK00
	LU00136	CPFLK00
	LU00135	CINSK00
	LU00134	CIDBK00
	LU00133	CPUTK00
	LU00132	CPLAK00
	LU00131	CINSK00
	LU00127	CINSK00
	LU00124	CPDTK00
	LU00123	CINSK00
CAR2102	S016300	CIDBK00
	S016280	CIDBK00
	S016270	CIDBK00
	S016266	CPFUK00
	S016262	CPFUK00
	S016258	CPRFK00
	S016246	CPFLK00
	S016217	CPUTK00
	S016206	CPDAK00

CA RS Level	Service	FMID
	S016205	CINSK00
	S016200	CIDBK00
	S016195	CPFUK00
	S016194	CINSK00
	S016183	CINSK00
	S016181	CUGRK00
	S016176	CINSK00
	S016175	CPSAK00
	S016174	CPDTK00
	S016173	CINSK00
	S016165	CPRFK00
	S016160	CPRRK00
	S016149	CPRFK00
	S016133	COFSK00
	S016132	CINSK00
	S016116	CIDBK00
	S016113	CPDTK00
	S016107	CIDBK00
	S016090	CPUTK00
	S016089	CPFLK00
	S016088	CINSK00
	S016075	CPLAK00
	S016071	CRCQK00
	S016067	CINSK00
	S016057	CIDBK00
	S016053	CINSK00
	S016046	CIDBK00
	S016045	CINSK00
	S015980	CINSK00
	S015952	CIDBK00
	S015864	CINSK00
CAR2101	S016040	CINSK00
	S016032	CINSK00
	S016031	CINSK00
	S016024	CINSK00
	S016001	CINSK00
	S015998	CINSK00
	S015939	CPUTK00
	S015938	CPFLK00
	S015937	CINSK00
	S015935	CPSAK00
	S015931	CIDBK00
	S015927	CPDTK00
	S015913	CIDBK00
	S015908	CINSK00
	S015895	CPLAK00
	S015868	CINSK00

CA RS Level	Service	FMID
	S015867	CINSK00
	S015863	CINSK00
	S015843	CPDTK00
	S015816	CRCQK00
	S015807	CRCXK00
	S015806	CRCUK00
	S015805	CPFUK00
	S015804	CINSK00
	S015789	CINSK00
	S015775	CPRFK00
	S015774	CPRFK00
	S015770	CINSK00
	S015761	CIDBK00
	S015760	CINSK00
	S015711	CUGRK00
	S015710	CPUTK00
	S015709	CINSK00
CAR2012	S015771	CPFLK00
	S015767	CPFUK00
	S015740	CPUTK00
	S015739	CPRRK00
	S015738	CPFLK00
	S015723	CPDTK00
	S015697	CRCQK00
	S015691	CPPAK00
	S015690	CINSK00
	S015652	CPUTK00
	S015650	COFSK00
	S015647	CIDBK00
	S015613	CINSK00
	S015609	CUGRK00
	S015585	CPRRK00
	S015573	CPDTK00
	S015541	CPUTK00
	S015531	CPLAK00
	S015506	CINSK00
	S015499	CPDTK00
	S015487	CUGRK00
	S015486	CPUTK00
	S015485	CPRRK00
	S015484	CPFLK00
	S015483	CPDAK00
	S015482	CINSK00
	S015480	CUTSK00
	S015457	CPUTK00
	S015456	CPLAK00
	S015455	CINSK00

CA RS Level	Service	FMID
	S015450	CRCQK00
	S015449	CINSK00
	S015444	CINSK00
	S015440	COFSK00
	S015395	CPDTK00
	S015394	CINSK00
	S015193	CINSK00
CAR2011	S015314	CPUTK00
	S015313	CPRRK00
	S015312	CPFLK00
	S015311	CINSK00
	S015308	CUGRK00
	S015271	CPUTK00
	S015255	CPRFK00
	S015254	CIDBK00
	S015238	CPUTK00
	S015237	CPRRK00
	S015236	CPFUK00
	S015235	CPFLK00
	S015225	COFSK00
	S015220	CPLAK00
	S015215	CINSK00
	S015205	CINSK00
	S015199	CPDTK00
	S015191	CRCMK00
	S015184	CSQ2100
	S015174	CPUTK00
	S015132	CINSK00
	S015130	CPDAK00
	S015129	CINSK00
	S015124	CPRRK00
	S015122	CINSK00
	S015094	CPSAK00
	S015086	CPFUK00
	S015075	CINSK00
	S015074	CPUTK00
	S015073	CPDTK00
	S015072	CINSK00
	S015070	CIDBK00
	S015064	CPLAK00
	S015062	COFSK00
	S015061	CINSK00
	S015049	CIDBK00
	S015045	CINSK00
	S015031	CINSK00
	S015015	CPFLK00
	S015004	CINSK00

CA RS Level	Service	FMID
CAR2010	S014984	CPFUK00
	S014949	CPLAK00
	S014923	CIDBK00
	S014902	CPPAK00
	S014901	CINSK00
	S014899	CINSK00
	S014883	CIDBK00
	S014876	CINSK00
	S014874	CINSK00
	S014866	CPLAK00
	S014865	CINSK00
	S014864	CIDBK00
	S014863	CUGRK00
	S014861	CPSAK00
	S014860	CPDTK00
	S014859	CINSK00
	S014853	CIDBK00
	S014843	CIDBK00
	S014842	CPRFK00
	S014836	CPBAK00
	S014835	CINSK00
	S014833	CRCUK00
	S014832	CINSK00
	S014827	CINSK00
	S014782	CPDTK00
	S014773	CPUTK00
	S014772	CPFLK00
	S014771	CINSK00
	S014756	CINSK00
	S014754	CIDBK00
	S014732	CPDAK00
	S014731	CINSK00
	S014721	CINSK00
	S014716	CINSK00
	S014694	CPFLK00
	S014681	CPSAK00
	S014680	CPDTK00
	S014675	CPRFK00
	S014655	COFSK00
	S014642	CIDBK00
CAR2009	S014641	CUGRK00
	S014640	CPRRK00
	S014639	CINSK00
	S014634	CINSK00
	S014624	CIDBK00
	S014623	CINSK00
	S014615	CINSK00

CA RS Level	Service	FMID
	S014613	CPLAK00
	S014583	CINSK00
	S014570	COFSK00
	S014568	CUGRK00
	S014567	CPUTK00
	S014566	CINSK00
	S014565	CPDAK00
	S014531	CIDBK00
	S014502	CPUTK00
	S014501	CPFUK00
	S014500	CINSK00
	S014491	CINSK00
	S014483	CUGRK00
	S014452	CPLAK00
	S014433	CPFLK00
	S014428	CPUTK00
	S014427	CPFLK00
	S014426	CRCQK00
	S014404	CPRFK00
	S014401	CINSK00
	S014400	CPPAK00
	S014397	CPDTK00
	S014383	CPUTK00
	S014382	CPFUK00
	S014381	CINSK00
	S014338	CPDTK00
	S014335	CRCQK00
	S014310	CUTSK00
	S014307	CRCQK00
	S014299	CPDTK00
	S014298	CINSK00
	S014295	CINSK00
	S014282	CINSK00
	S014277	CPUTK00
	S014276	CPRRK00
	S014275	CINSK00
	S014267	CPDTK00
	S014254	CIDBK00
	S014228	CIDBK00
	S014175	CPDAK00
	S014174	CINSK00
	S014126	COFSK00
	S014125	CINSK00
	S014028	CPFUK00
	S014027	CINSK00
	S013888	CINSK00
CAR2008	S014252	CPFLK00

CA RS Level	Service	FMID
	S014235	CPDTK00
	S014173	CINSK00
	S014168	CINSK00
	S014164	CIDBK00
	S014142	CPLAK00
	S014137	CPLAK00
	S014101	CRCQK00
	S014099	CIDBK00
	S014093	CIDBK00
	S014054	CPUTK00
	S014053	CPFUK00
	S014052	CINSK00
	S014036	CUGRK00
	S014035	CPUTK00
	S014034	CPRRK00
	S014033	CPLAK00
	S014032	CPFUK00
	S014031	CPFLK00
	S014030	CPDAK00
	S014029	CINSK00
	S014025	CPFLK00
	S014016	CIDBK00
	S013990	COFSK00
	S013988	CPPAK00
	S013987	CPDTK00
	S013986	CPDAK00
	S013985	CINSK00
	S013982	CSQ2100
	S013974	CINSK00
	S013973	CINSK00
	S013961	CPUTK00
	S013960	CPFUK00
	S013930	CINSK00
	S013909	CPXNK00
	S013908	CINSK00
	S013891	CIDBK00
	S013889	CPDTK00
	S013887	CPDTK00
	S013881	CUGRK00
	S013880	CPUTK00
	S013879	CPLAK00
	S013878	CINSK00
	S013842	CRCXK00
	S013839	CINSK00
	S013827	CINSK00
	S013825	CIDBK00
	S013814	CINSK00

CA RS Level	Service	FMID
	S013807	CINSK00
	S013794	CINSK00
	S013781	COFSK00
	S013768	CUGRK00
	S013767	CPUTK00
	S013766	CPFUK00
	S013765	CPFLK00
	S013764	CINSK00
	S013758	COFSK00
	S013726	CINSK00
	S013711	CINSK00
	S013709	CPUTK00
	S013708	CPRRK00
	S013707	CPFUK00
	S013706	CPFLK00
	S013574	CINSK00
CAR2007	S013761	CPDTK00
	S013730	CPRFK00
	S013718	CPLAK00
	S013717	CINSK00
	S013686	CUGRK00
	S013685	CPUTK00
	S013684	CPFUK00
	S013683	CPDAK00
	S013682	CINSK00
	S013676	CINSK00
	S013668	CRCQK00
	S013655	CPDTK00
	S013635	CPRRK00
	S013633	CPPAK00
	S013627	CUGRK00
	S013626	CPUTK00
	S013625	CPLAK00
	S013624	CINSK00
	S013616	CPDTK00
	S013596	CPUTK00
	S013586	CUGRK00
	S013584	CPDAK00
	S013557	CIDBK00
	S013539	CINSK00
	S013515	CIDBK00
	S013509	CINSK00
	S013508	CIDBK00
	S013484	CINSK00
	S013456	CRCXK00
	S013453	CINSK00
	S013450	CPDTK00

CA RS Level	Service	FMID
	S013437	CPFUK00
	S013421	CPSAK00
	S013417	CINSK00
	S013341	CINSK00
	S013340	CINSK00
	S013273	CINSK00
	S012794	CINSK00
CAR2006	S013352	CINSK00
	S013339	CPRRK00
	S013329	CPSAK00
	S013320	CINSK00
	S013319	CPFUK00
	S013316	CPUTK00
	S013308	CINSK00
	S013307	CAHOK00
	S013306	CRCUK00
	S013234	CPLAK00
	S013230	CINSK00
	S013229	CINSK00
	S013224	CPLAK00
	S013213	CINSK00
	S013206	CUGRK00
	S013205	CPUTK00
	S013204	CPRRK00
	S013203	CPFLK00
	S013193	CINSK00
	S013176	CPRRK00
	S013175	CPFLK00
	S013154	CINSK00
	S013153	CPUTK00
	S013152	CPRRK00
	S013151	CPFUK00
	S013150	CPFLK00
	S013149	CINSK00
	S013130	CUGRK00
	S013112	CRCUK00
	S013111	CINSK00
	S013098	CPUTK00
	S013097	CPFLK00
	S013096	CINSK00
	S013091	CPDTK00
	S013083	CRCQK00
	S013080	CINSK00
	S013075	CINSK00
	S013074	CPDTK00
	S013071	CINSK00
	S013066	CPFLK00

CA RS Level	Service	FMID
	S013044	CINSK00
	S013032	CIDBK00
	S013024	CUGRK00
	S013009	CPLAK00
	S013005	CIDBK00
	S012999	CINSK00
	S012994	CINSK00
	S012984	CPFLK00
	S012958	CTGRK00
	S012921	CPDTK00
	S012853	CUGRK00
	S012852	CPSAK00
	S012851	CINSK00
CAR2005	S012966	CPSAK00
	S012943	CPPAK00
	S012942	CINSK00
	S012937	CRCXK00
	S012936	CRCUK00
	S012935	CPLAK00
	S012934	CPFUK00
	S012933	CINSK00
	S012927	CPUTK00
	S012926	CPSAK00
	S012925	CPDTK00
	S012924	CINSK00
	S012904	CINSK00
	S012902	CUGRK00
	S012901	CPUTK00
	S012900	CPLAK00
	S012899	CINSK00
	S012896	CIDBK00
	S012889	CPLAK00
	S012829	CINSK00
	S012821	CPDTK00
	S012819	CINSK00
	S012817	CINSK00
	S012812	CINSK00
	S012808	CPDTK00
	S012797	CPLAK00
	S012792	CINSK00
	S012783	CRCQK00
	S012769	CIDBK00
	S012764	CINSK00
	S012763	CPLAK00
	S012754	CPSAK00
	S012751	CINSK00
	S012730	CPUTK00

CA RS Level	Service	FMID
	S012717	CPUTK00
	S012716	CPRRK00
	S012715	CINSK00
	S012706	CIDBK00
	S012657	CRCUK00
	S012656	CPUTK00
	S012655	CPPAK00
	S012654	CPLAK00
	S012653	CPFUK00
	S012652	CPDTK00
	S012651	CPDAK00
	S012650	CINSK00
	S012624	CPDAK00
	S012586	CUGRK00
	S012585	CPFLK00
	S012553	CRCCK00
	S012547	CINSK00
	S012539	CPSAK00
	S012538	CPDTK00
	S012537	CINSK00
	S012536	CIDBK00
	S012530	CUGRK00
	S012529	CPUTK00
	S012528	CPRRK00
	S012527	CPFUK00
	S012526	CPFLK00
	S012525	CINSK00
	S012524	CINSK00
	S012501	CSQ2100
	S012487	CPLAK00
	S012483	CIDBK00
	S012429	CPDTK00
	S012428	CIDBK00
	S012412	COFSK00
	S012368	CPPAK00
	S012367	CINSK00
	S012366	CRCXK00
	S012365	CRCUK00
	S012364	CPLAK00
	S012363	CPFUK00
	S012362	COFSK00
	S012361	CINSK00
	S012304	CRCUK00
CAR2004	S012426	CPDTK00
	S012400	CRCXK00
	S012397	CIDBK00
	S012396	CINSK00

CA RS Level	Service	FMID
	S012352	CUGRK00
	S012323	CINSK00
	S012279	CUGRK00
	S012278	CPUTK00
	S012277	CPRRK00
	S012276	CPFUK00
	S012275	CPFLK00
	S012274	CINSK00
	S012268	CINSK00
	S012267	CPPAK00
	S012249	CINSK00
	S012235	CUGRK00
	S012234	CUGRK00
	S012229	CRCQK00
	S012228	CINSK00
	S012219	CINSK00
	S012197	CPFUK00
	S012196	CIDBK00
	S012174	CPUTK00
	S012173	CPLAK00
	S012164	CINSK00
	S012159	CINSK00
	S012155	CUGRK00
	S012154	CTGRK00
	S012153	CPUTK00
	S012152	CPRRK00
	S012151	CPFUK00
	S012150	CPFLK00
	S012149	CINSK00
	S012147	CINSK00
	S012131	CPDTK00
	S012128	CPFLK00
	S012115	CINSK00
	S012078	CIDBK00
	S012076	CINSK00
	S012068	CPPAK00
	S012067	CINSK00
	S011977	CIDBK00
CAR2003	S012133	CIDBK00
	S012132	CINSK00
	S012110	CUGRK00
	S012109	CPRRK00
	S012108	CPFUK00
	S012107	CPFLK00
	S012106	CINSK00
	S012042	CINSK00
	S012031	CINSK00

CA RS Level	Service	FMID
	S012018	CUGRK00
	S012012	CRCQK00
	S012011	CINSK00
	S012000	CUGRK00
	S011999	CPUTK00
	S011998	CPRRK00
	S011997	CPFUK00
	S011996	CPFLK00
	S011995	CINSK00
	S011993	CPFUK00
	S011988	CINSK00
	S011983	CPDTK00
	S011981	CPUTK00
	S011976	CRCQK00
	S011971	CRCXK00
	S011970	CRCUK00
	S011969	CPLAK00
	S011968	CPFUK00
	S011967	COFSK00
	S011966	CINSK00
	S011957	CINSK00
	S011947	CPUTK00
	S011946	CPFLK00
	S011945	CINSK00
	S011942	CINSK00
	S011931	CPDAK00
	S011930	CUGRK00
	S011929	CUGRK00
	S011921	COFSK00
	S011868	CRCXK00
	S011867	CRCUK00
	S011866	CINSK00
	S011863	CINSK00
	S011862	CPUTK00
	S011861	CPRRK00
	S011849	CPUTK00
	S011848	CPUTK00
	S011847	CPRRK00
	S011846	CPFLK00
	S011843	CPSAK00
	S011806	CINSK00
	S011782	CPLAK00
	S011773	CUGRK00
	S011768	CPPAK00
	S011767	CPBAK00
	S011766	CINSK00
	S011737	CINSK00

CA RS Level	Service	FMID
	S011717	CPDTK00
	S011686	CUGRK00
	S011685	CPUTK00
	S011684	CINSK00
	S011675	CIDBK00
CAR2002	S011810	CPPAK00
	S011809	CPLAK00
	S011808	CPBAK00
	S011807	CINSK00
	S011780	CIDBK00
	S011731	CPRFK00
	S011701	CPDAK00
	S011700	CINSK00
	S011696	CINSK00
	S011695	CPSAK00
	S011694	CPDTK00
	S011693	CIDBK00
	S011691	CINSK00
	S011679	CINSK00
	S011674	CINSK00
	S011669	CPLAK00
	S011646	CUGRK00
	S011645	CPRRK00
	S011644	CPFUK00
	S011643	CPFLK00
	S011625	CPSAK00
	S011624	CPDTK00
	S011623	CINSK00
	S011616	CIDBK00
	S011608	CPXNK00
	S011606	CPDTK00
	S011605	CUGRK00
	S011604	CPUTK00
	S011603	CPRRK00
	S011602	CPFUK00
	S011601	CPFLK00
	S011583	CPLAK00
	S011576	CINSK00
	S011567	CPPAK00
	S011566	CINSK00
	S011547	CINSK00
	S011534	CINSK00
	S011521	CPUTK00
	S011520	CPFLK00
	S011499	CPDTK00
	S011476	CPFUK00
	S011475	CINSK00

CA RS Level	Service	FMID
	S011468	CINSK00
	S011465	CIDBK00
	S011452	CIDBK00
	S011433	CPUTK00
	S011432	CPRRK00
	S011431	CPFLK00
	S011430	CINSK00
	S011419	CPLAK00
	S011382	CUGRK00
	S011373	CINSK00
	S011333	CINSK00
	S011325	CPFLK00
	S011296	CPRFK00
	S011231	CINSK00
	S011086	CUGRK00
CAR2001	S011345	CPSAK00
	S011323	CUGRK00
	S011317	CINSK00
	S011263	CPDTK00
	S011261	CINSK00
	S011255	CINSK00
	S011239	CUGRK00
	S011238	CPUTK00
	S011237	CPRRK00
	S011236	CPFUK00
	S011235	CPFLK00
	S011234	CINSK00
	S011222	CPRRK00
	S011221	CINSK00
	S011201	CINSK00
	S011200	CPRRK00
	S011197	CRCQK00
	S011196	CINSK00
	S011180	COFSK00
	S011169	CUGRK00
	S011168	CPUTK00
	S011133	CRCQK00
	S011131	CPPAK00
	S011130	CPBAK00
	S011129	CINSK00
	S011114	CPUTK00
	S011113	CPLAK00
	S011112	CINSK00
	S011110	CPUTK00
	S011109	CPRRK00
	S011108	CPFUK00
	S011107	CPFLK00

CA RS Level	Service	FMID
	S011105	CRCUK00
	S011085	CPUTK00
	S011084	CINSK00
	S011083	CUGRK00
	S011080	CPRRK00
	S011079	CRCXK00
	S011078	CINSK00
	S011052	CPFUK00
	S011048	CINSK00
	S011017	CPDAK00
	S011013	CPFUK00
	S011009	CUTSK00
	S010978	CINSK00
	S010975	CRCUK00
	S010974	CINSK00
	S010955	CPSAK00
	S010908	CPDTK00
	S010907	CINSK00
	S010906	CIDBK00
	S010867	CPSAK00
	S010835	CINSK00
	S010817	CPRAK00
	S010739	CIDBK00
	S010662	CINSK00
	S010278	CPPAK00
	S010277	CPBAK00
CAR1912	S011039	CPRRK00
	S010948	CINSK00
	S010921	CPDTK00
	S010920	CINSK00
	S010872	CINSK00
	S010871	CINSK00
	S010827	CINSK00
	S010819	CUGRK00
	S010818	CUGRK00
	S010815	CINSK00
	S010789	CAHOK00
	S010788	CINSK00
	S010763	CINSK00
	S010760	CINSK00
	S010752	CPFLK00
	S010750	CINSK00
	S010716	CIDBK00
	S010714	CPPAK00
	S010713	CPBAK00
	S010712	CINSK00
	S010703	CINSK00

CA RS Level	Service	FMID
	S010679	CPRRK00
	S010678	CPUTK00
	S010677	CPLAK00
	S010676	CINSK00
	S010661	CRCQK00
	S010652	CPDTK00
	S010641	CPLAK00
	S010639	CINSK00
	S010631	CINSK00
	S010626	CPFUK00
	S010625	CPRRK00
	S010608	CPUTK00
	S010549	CINSK00
	S010512	CINSK00
	S010495	CPUTK00
	S010417	CINSK00
	S010405	CIDBK00
	S010401	CUGRK00
	S010165	CUGRK00
	S009802	CINSK00
CAR1911	S010553	CUGRK00
	S010538	CPDTK00
	S010532	CRCQK00
	S010521	CPDTK00
	S010514	CINSK00
	S010505	CPRRK00
	S010492	CPDTK00
	S010474	CPUTK00
	S010470	CUTSK00
	S010469	CINSK00
	S010468	CRCQK00
	S010442	CPFUK00
	S010437	CINSK00
	S010430	CRCQK00
	S010390	CPLAK00
	S010389	CINSK00
	S010365	CPRFK00
	S010347	CPRFK00
	S010331	CINSK00
	S010323	CINSK00
	S010321	CRCQK00
	S010306	CUGRK00
	S010292	CINSK00
	S010288	CPRFK00
	S010281	CINSK00
	S010268	CRCQK00
	S010250	COFSK00

CA RS Level	Service	FMID
	S010248	CIDBK00
	S010243	CINSK00
	S010236	CUTSK00
	S010201	CUGRK00
	S010200	CINSK00
	S010175	CPFUK00
	S010174	CINSK00
	S010173	CINSK00
	S010071	CTGRK00
	S010059	CTGRK00
	S010007	CPRRK00
	S010000	CPPAK00
	S009999	CINSK00
	S009978	CPUTK00
	S009977	CPFLK00
	S009976	CINSK00
	S009945	CINSK00
	S009911	CUGRK00
	S009797	CINSK00
CAR1910	S010196	CPUTK00
	S010195	CPFLK00
	S010194	CINSK00
	S010163	CRCQK00
	S010162	CINSK00
	S010160	CIDBK00
	S010129	CAHOK00
	S010107	CPFUK00
	S010080	CINSK00
	S010069	CINSK00
	S010066	CINSK00
	S010061	CINSK00
	S010046	CINSK00
	S010044	CUGRK00
	S010043	CPFUK00
	S010042	CPDAK00
	S010041	CINSK00
	S010038	CPUTK00
	S010029	COFSK00
	S010028	CINSK00
	S010023	CPFUK00
	S010021	CINSK00
	S010018	CPDTK00
	S010004	CINSK00
	S010001	CUGRK00
	S009974	CUGRK00
	S009973	CPUTK00
	S009954	CPRRK00

CA RS Level	Service	FMID
	S009929	CINSK00
	S009905	CPRRK00
	S009903	CUGRK00
	S009902	CPUTK00
	S009901	CPRRK00
	S009900	CPFLK00
	S009893	CINSK00
	S009892	CINSK00
	S009877	CINSK00
	S009867	CUGRK00
	S009866	CRCSK00
	S009865	CRCQK00
	S009864	CPRFK00
	S009863	CPRAK00
	S009862	CPPAK00
	S009861	CPDAK00
	S009860	CINSK00
	S009859	CIDBK00
	S009858	CAHOK00
	S009857	CINSK00
	S009854	CPUTK00
	S009852	CRCQK00
	S009851	CINSK00
	S009839	CINSK00
	S009818	CINSK00
	S009811	CPDTK00
	S009799	CINSK00
	S009787	CPPAK00
	S009786	CPBAK00
	S009785	CINSK00
	S009766	CUGRK00
	S009765	CPUTK00
	S009764	CPFUK00
	S009763	CPDAK00
	S009762	COFSK00
	S009761	CINSK00
CAR1909	S009828	CPDTK00
	S009796	CINSK00
	S009790	CINSK00
	S009759	CRCQK00
	S009748	CUGRK00
	S009743	CIDBK00
	S009742	CUGRK00
	S009714	CPRAK00
	S009708	CIDBK00
	S009693	CINSK00
	S009675	CPFUK00

CA RS Level	Service	FMID
	S009672	CPUTK00
	S009671	CPRRK00
	S009662	CPRFK00
	S009652	CPDAK00
	S009647	COFSK00
	S009602	CINSK00
	S009601	CPDTK00
	S009599	CPRRK00
	S009595	CUGRK00
	S009590	CUTSK00
	S009569	CPUTK00
	S009564	CINSK00
	S009556	CIDBK00
	S009546	CINSK00
	S009519	CIDBK00
	S009432	CPSAK00
	S009426	CINSK00
	S009423	CTGRK00
	S009417	CINSK00
	S009403	CRCSK00
	S009378	CPFLK00
	S009333	CPLAK00
	S009300	CPDAK00
	S009205	CINSK00
	S008837	CPRRK00
CAR1908	S009461	CINSK00
	S009373	CIDBK00
	S009356	CINSK00
	S009337	CPFUK00
	S009267	CPSAK00
	S009261	CINSK00
	S009253	CPUTK00
	S009252	CPLAK00
	S009239	CPDTK00
	S009232	CINSK00
	S009228	CIDBK00
	S009188	CUGRK00
	S009187	CTGRK00
	S009186	CPUTK00
	S009185	CPRFK00
	S009184	COFSK00
	S009183	CINSK00
	S009180	CPFLK00
	S009177	CIDBK00
	S009166	CRCUK00
	S009147	CUGRK00
	S009146	CINSK00

CA RS Level	Service	FMID
	S009135	CPUTK00
	S009133	CPLAK00
	S009132	CUGRK00
	S009130	CINSK00
	S009129	CRCQK00
	S009128	COFSK00
	S009126	CINSK00
	S009125	CINSK00
	S009110	CRCXK00
	S009109	CRCUK00
	S009108	CPLAK00
	S009107	CPFUK00
	S009106	COFSK00
	S009105	CINSK00
	S009089	CPRRK00
	S009088	CPDAK00
	S009083	CPLAK00
	S009068	CIDBK00
	S009065	CPDTK00
	S009055	CIDBK00
	S009054	CIDBK00
	S009044	CPDTK00
	S008969	CPRFK00
	S008963	CINSK00
	S008766	CINSK00
	S008755	CINSK00
	S008732	CPUTK00
	S008540	CINSK00
CAR1907	S009033	CINSK00
	S009028	CUGRK00
	S009027	CPUTK00
	S009026	CPRRK00
	S009025	CPFUK00
	S009024	CPFLK00
	S009023	CPDAK00
	S009022	CINSK00
	S008957	CINSK00
	S008922	CPRAK00
	S008899	CUTSK00
	S008879	CPUTK00
	S008878	CRCQK00
	S008871	CPUTK00
	S008870	CPLAK00
	S008869	CINSK00
	S008861	CPUTK00
	S008860	CPFUK00
	S008859	CINSK00

CA RS Level	Service	FMID
	S008858	COFSK00
	S008856	CINSK00
	S008847	CINSK00
	S008846	CIDBK00
	S008843	CUGRK00
	S008841	CUGRK00
	S008833	CUGRK00
	S008832	CINSK00
	S008825	CINSK00
	S008804	CINSK00
	S008803	CPUTK00
	S008802	CPLAK00
	S008799	CSQ2100
	S008789	CPDTK00
	S008782	CPUTK00
	S008762	CTGRK00
	S008750	CINSK00
	S008728	CIDBK00
	S008684	CINSK00
	S008668	CUGRK00
	S008667	CPUTK00
	S008663	COFSK00
	S008662	CINSK00
	S008654	CINSK00
	S008644	CINSK00
	S008606	CINSK00
	S008586	CPUTK00
	S008585	CPFUK00
	S008584	CPFLK00
	S008581	CPPAK00
	S008580	CPBAK00
	S008579	COFSK00
	S008578	CINSK00
	S008577	CIDBK00
	S008576	CSQ2100
	S008467	CINSK00
	S008414	CINSK00
	S008352	CPFUK00
CAR1906	S008608	CRCQK00
	S008466	CUGRK00
	S008455	CPDTK00
	S008451	CPPAK00
	S008450	CPBAK00
	S008446	CPDTK00
	S008435	COFSK00
	S008434	CINSK00
	S008429	CPUTK00

CA RS Level	Service	FMID
	S008428	CPFLK00
	S008427	COFSK00
	S008407	CPFLK00
	S008406	CINSK00
	S008403	COFSK00
	S008393	CPSAK00
	S008380	CPUTK00
	S008379	CPRRK00
	S008378	CPFLK00
	S008377	CINSK00
	S008330	CINSK00
	S008323	CPDTK00
	S008313	CINSK00
	S008302	CIDBK00
	S008296	CINSK00
	S008291	CINSK00
	S008280	CUGRK00
	S008279	CIDBK00
	S008278	CINSK00
	S008262	CINSK00
	S008244	CPDTK00
	S008240	CINSK00
	S008232	CRCQK00
	S008216	CINSK00
	S008202	CINSK00
	S008198	CINSK00
	S008190	CPSAK00
	S008128	CINSK00
	S008074	CRCMK00
CAR1905	S008204	CPDTK00
	S008193	CUGRK00
	S008137	CUGRK00
	S008136	CINSK00
	S008129	CPDTK00
	S008123	CPSAK00
	S008112	CPFUK00
	S008109	COFSK00
	S008101	COFSK00
	S008083	CPRFK00
	S008072	CPUTK00
	S008071	CPFLK00
	S008068	CPFUK00
	S008051	CINSK00
	S008025	CPRFK00
	S008016	CINSK00
	S008012	CPRAK00
	S008008	CPLAK00

CA RS Level	Service	FMID
	S007988	CPDTK00
	S007986	CPUTK00
	S007974	CPRFK00
	S007955	CINSK00
	S007954	CRCQK00
	S007940	CINSK00
	S007927	CUTSK00
	S007924	CPFLK00
	S007916	CUGRK00
	S007915	CINSK00
	S007906	CPRAK00
	S007905	CUGRK00
	S007904	CAHOK00
	S007894	CPUTK00
	S007893	CPRRK00
	S007884	CTGRK00
	S007856	CINSK00
CAR1904	S007826	CUGRK00
	S007825	CTGRK00
	S007824	CRCUK00
	S007823	CRCSK00
	S007822	CRCQK00
	S007821	CRCMK00
	S007820	CPUTK00
	S007819	CPSAK00
	S007818	CPRRK00
	S007815	CPRFK00
	S007814	CPPAK00
	S007813	CPLAK00
	S007812	CPFUK00
	S007811	CPFLK00
	S007810	CPDTK00
	S007809	CPDAK00
	S007808	COFSK00
	S007807	CINSK00
	S007806	CIDBK00
	S007804	CAHOK00
	S007774	CINSK00
	S007711	CPUTK00
	S007560	CINSK00
	S007552	CINSK00
	S007173	CUGRK00
	S007172	CPUTK00
	S007171	CPFUK00
	S007170	CPFLK00
	S007169	CINSK00
CAR1903	S007412	CINSK00

CA RS Level	Service	FMID
	S007384	CRCXK00
	S007383	CRCUK00
	S007382	CPLAK00
	S007381	CPFUK00
	S007380	COFSK00
	S007379	CINSK00
	S007369	CRCUK00
	S007323	CINSK00
	S007204	CPSAK00
CAR1902	S007167	CINSK00
	S006978	CINSK00
	S006977	CIDBK00
	S006879	CUGRK00
	S006878	CRCXK00
	S006877	CRCUK00
	S006876	CRC SK00
	S006875	CRCQK00
	S006874	CPUTK00
	S006873	CPSAK00
	S006870	CPRFK00
	S006869	CPPAK00
	S006868	CPLAK00
	S006867	CPFUK00
	S006866	CPFLK00
	S006865	CPDTK00
	S006864	COFSK00
	S006863	CINSK00
	S006862	CIDBK00
	S006838	CPDTK00
CAR1901	S006718	CPLAK00
	S006638	CINSK00
	S006619	CPUTK00
	S006611	CUTSK00
	S006610	CPUTK00
	S006609	CPRRK00
	S006608	CINSK00
	S006582	CPRRK00
	S006497	CINSK00
	S006485	CSQ2100
CAR1812	S006494	CSQ2100
	S006443	CPRFK00
	S006335	CPSAK00
	S006334	CPDTK00
	S006333	CIDBK00
	S006286	CINSK00
	S006275	CRCQK00
	S006237	CPDTK00

CA RS Level	Service	FMID
	S006132	CUGRK00
	S006131	CRCXK00
	S006130	CRCUK00
	S006129	CRC SK00
	S006128	CRCQK00
	S006127	CPUTK00
	S006126	CPSAK00
	S006125	CPRRK00
	S006122	CPRFK00
	S006121	CPRAK00
	S006120	CPPAK00
	S006119	CPLAK00
	S006118	CPFUK00
	S006117	CPFLK00
	S006116	CPDTK00
	S006115	CPDAK00
	S006114	COFSK00
	S006113	CINSK00
	S006112	CIDBK00
CAR1811	S006069	CUGRK00
	S006068	CPUTK00
	S006067	CINSK00
	S006064	CPUTK00
	S006007	CINSK00
	S005873	CINSK00
	S005700	CPUTK00
CAR1810	S005503	CPFUK00
	S005502	CPFLK00
	S005337	CUGRK00
	S005308	CSQ2100
	S005280	CINSK00
	S005266	CINSK00
	S005199	CINSK00
CAR1809	S005237	CINSK00
	S005102	CPUTK00
	S005101	CPFUK00
	S005081	CPFLK00
	S005070	CINSK00
	S005018	CUGRK00
	S005017	CTGRK00
	S005016	CPUTK00
	S005015	CPRRK00
	S005014	CPLAK00
	S005013	CPFUK00
	S005012	CPFLK00
	S005011	CINSK00
	S005010	CIDBK00

CA RS Level	Service	FMID
	S004949	CPUTK00
	S004948	CPDAK00
	S004947	CINSK00
	S004857	CPFLK00
	S004856	CRCMK00
	S004855	CINSK00
	S004799	CUGRK00
	S004798	CPUTK00
	S004797	CPRRK00
	S004796	CPRAK00
	S004795	CPLAK00
	S004794	CINSK00
	S004757	CPDTK00
	S004756	CINSK00
CAR1808	S004720	CRCUK00
	S004719	CRCMK00
	S004718	CINSK00
	S004475	CUGRK00
	S004474	CTGRK00
	S004473	CRCXK00
	S004472	CRCUK00
	S004471	CRCQK00
	S004470	CRCMK00
	S004469	CPUTK00
	S004468	CPSAK00
	S004467	CPRRK00
	S004464	CPRFK00
	S004463	CPRAK00
	S004462	CPPAK00
	S004461	CPLAK00
	S004460	CPFUK00
	S004459	CPFLK00
	S004458	CPDTK00
	S004457	CPDAK00
	S004456	COFSK00
	S004455	CINSK00
	S004454	CIDBK00
	S004437	CRCQK00
	S004275	CPFLK00
CAR1807	S004251	CUGRK00
	S004250	CINSK00
	S004249	CUGRK00
	S004248	CPUTK00
	S004247	CPRRK00
	S004246	CPRAK00
	S004245	CPLAK00
	S004244	CINSK00

CA RS Level	Service	FMID
	S004155	CSQ2100
	S004129	CINSK00
	S004048	CUGRK00
	S004010	CPDAK00
	S003992	CPUTK00
	S003965	CINSK00
	S003960	CPDTK00
	S003959	CINSK00
	S003942	CPDTK00
	S003861	CPFLK00
	S003860	CINSK00
	S003844	CPUTK00
	S003843	CINSK00
CAR1806	S003816	CUGRK00
	S003815	CPUTK00
	S003814	CINSK00
	S003677	CUGRK00
	S003676	CTGRK00
	S003587	CINSK00
	S001905	CINSK00
	S001896	CINSK00
	S001855	CUGRK00
	S001819	CUGRK00
	S001818	CPFUK00
	S001670	CRCCK00
	S001641	CPLAK00
CAR1805	S001712	CUGRK00
	S001711	CPUTK00
	S001668	CUGRK00
	S001667	CPLAK00
	S001666	COFSK00
	S001665	CINSK00
	S001664	CIDBK00
	S001660	CUGRK00
	S001659	CPUTK00
	S001658	CPRRK00
	S001657	CPFUK00
	S001656	CPFLK00
	S001655	CINSK00
	S001635	CPSAK00
	S001418	CUGRK00
	S001417	CTGRK00
	S001416	CRCXK00
	S001415	CRCUK00
	S001414	CRCQK00
	S001413	CRCMK00
	S001412	CPXNK00

CA RS Level	Service	FMID
	S001411	CPUTK00
	S001410	CPSAK00
	S001409	CPRRK00
	S001406	CPRFK00
	S001405	CPRAK00
	S001404	CPPAK00
	S001403	CPLAK00
	S001402	CPFUK00
	S001401	CPFLK00
	S001400	CPDTK00
	S001399	CPDAK00
	S001398	CPBAK00
	S001397	COFSK00
	S001396	CINSK00
	S001395	CIDBK00
CAR1804	S000978	CINSK00
	S000977	CSQ2100
	S000975	CPLAK00
	S000894	CUGRK00
	S000893	CPUTK00
	S000871	CPSAK00
	S000849	CSQ2100
	S000848	CUTSK00
	S000847	CPUTK00
	S000846	CPRRK00
	S000845	CINSK00
	S000788	CUGRK00
	S000787	CPUTK00
	S000786	CPRRK00
	S000785	CINSK00
	S000704	CPFLK00
	S000631	CSQ2100
	S000081	CPFLK00
CAR1803	S000616	CRCUK00
	S000423	CPDTK00
	S000343	CINSK00
	S000295	CPFUK00
	S000263	CPDTK00
CAR1802	S000201	CUGRK00
	S000077	CIDBK00
	S000029	CUGRK00
	S000028	CTGRK00
	S000027	CRCXK00
	S000026	CRCUK00
	S000025	CRCQK00
	S000024	CPUTK00
	S000023	CPRRK00

CA RS Level	Service	FMID
	S000022	CPRAK00
	S000021	CPPAK00
	S000020	CPLAK00
	S000019	CPFUK00
	S000018	CPFLK00
	S000017	CPDAK00
	S000016	CINSK00
	S000015	CIDBK00
	R099980	CPDTK00
	R099979	CINSK00
	R099968	CSQ2100
	R099946	CPDTK00
	R099899	CSQ2100
CAR1801	R099853	CRCXK00
	R099748	CINSK00
	R099574	CUGRK00
	R099573	CTGRK00
	R099572	CRCXK00
	R099571	CRCUK00
	R099570	CRC SK00
	R099569	CRCQK00
	R099568	CRCMK00
	R099567	CPXNK00
	R099566	CPUTK00
	R099565	CPSAK00
	R099562	CPRFK00
	R099561	CPRAK00
	R099560	CPPAK00
	R099559	CPLAK00
	R099558	CPFUK00
	R099557	CPFLK00
	R099556	CPDTK00
	R099555	CPDAK00
	R099554	COFSK00
	R099553	CINSK00
	R099552	CIDBK00
CAR1712	R099195	CPRFK00
	R098970	CUTSK00
	R098969	CPUTK00
	R098968	CPRRK00
	R098967	CINSK00
	R098859	CINSK00
	R098853	CPDTK00
	R098430	CPSAK00
	R098429	CPDTK00
	R098428	CIDBK00
CAR1711	R098496	CPRFK00

CA RS Level	Service	FMID
	R098251	CPSAK00
	R098088	CPDTK00
	R098087	CINSK00
CAR1710	R098041	CSQ2100
	R097923	CPDTK00
	R097922	CINSK00
	R097825	CPSAK00
	R097824	CPDTK00
	R097823	CINSK00
	R097722	CUGRK00
	R097721	CRCUK00
	R097720	CRCCK00
	R097719	CRCQK00
	R097718	CRCMK00
	R097717	CPUTK00
	R097716	CPSAK00
	R097715	CPRRK00
	R097712	CPRFK00
	R097711	CPRAK00
	R097710	CPPAK00
	R097709	CPLAK00
	R097708	CPFLK00
	R097707	CPDTK00
	R097706	CPDAK00
	R097705	COFSK00
	R097704	CINSK00
	R097703	CIDBK00
CAR1709	R097683	CIDBK00
	R097376	CSQ2100
CAR1708	R097169	CSQ2100
	R097090	CSQ2100
	R096595	CUGRK00
	R096594	CRCUK00
	R096593	CRCQK00
	R096592	CRCMK00
	R096591	CPXNK00
	R096590	CPUTK00
	R096589	CPSAK00
	R096588	CPRRK00
	R096585	CPRFK00
	R096584	CPPAK00
	R096583	CPLAK00
	R096582	CPFUK00
	R096581	CPFLK00
	R096580	CPDTK00
	R096579	CPDAK00
	R096578	CPBAK00

CA RS Level	Service	FMID
	R096577	COFSK00
	R096576	CINSK00
	R096575	CIDBK00
CAR1707	R096495	CSQ2100
	R096401	CUTSK00
CAR1706	R096169	CPSAK00
	R096168	CPDTK00
	R096167	CINSK00
	R096162	CPDAK00
	R096102	CSQ2100
	R096005	CUTSK00
	R096002	CUGRK00
	R095972	CUTSK00
	R095918	CUTSK00