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CA Technologies Product References

This document references the following CA Technologies products:

- CA Datacom/AD
- CA Easytrieve® Report Generator (CA Easytrieve Report Generator)
- CA Endevor® Software Change Manager (CA Endevor SCM)
- CA JARS® DSA Resource Management Option
- CA MICS® Resource Management (CA MICS)
- CA NetSpy™ Network Performance
- CA Network and Systems Management (CA NSM)
- CA NSM NetMaster® Option
- CA OPS/MVS® Event Management and Automation (CA OPS/MVS EMA)
- CA Service Desk
- CA SYSVIEW® Performance Management (CA SYSVIEW)
Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At http://ca.com/support, you can access the following resources:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
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- Other helpful resources appropriate for your product

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Documentation Changes

The following documentation updates have been made since the seventh release of this documentation:

- **CASOAPE Environment Variable Updates** (see page 27)—Added the CL_ALL Option via PTF RO77244.

The following documentation updates have been made since the sixth release of this documentation:

- **Modernized Product Documentation** (see page 27)—Announced the new product documentation wiki.
- **CA Easytrieve Installation** (see page 14)—Added this topic.
- **ENF Updates** (see page 24)—Added PTF TR75087

The following documentation updates have been made since the fifth release of this documentation:

- **Review HOLDDATA when Installing S1401** (see page 13)—Added details to the first paragraph to clarify HOLDDATA for CAIENF RO54507.

The following documentation updates have been made since the fourth release of this documentation:

- **Review HOLDDATA when Installing S1401** (see page 13)—Added this section for the HOLDDATA to review when performing a new installation of the S1401 Update Level
- **Documentation Rearchitected** (see page 26)—Created two guides to simplify content findability.
- **CICS JCL Review** (see page 12)—Added variables for CICS CTS 5.1 and 5.2 (68 and 69).
- **Apache Software Foundation** (see page 47)—Updated the Apache third-party acknowledgement to add support for 6.0.40, and relocated this section to this guide to align with corporate standards.

The following documentation updates have been made since the third release of this documentation:

- **CA Common Variable Service** (see page 25)—Added this section
- **CA Hardware Interface Service for z/OS** (see page 26)—Added this section
- **CA Mainframe Connector for LINUX on System z** (see page 26)—Added this section
- **Legal Notices** (see page 2)—Updated to reflect public documentation legal disclaimer.
Global—Completed editorial changes to meet CA standards and incorporated the applicable topics from the now retired Readme.

The following documentation updates have been made since the second release of this documentation:

- Common Address Space Shell (see page 24)—Added the CA Common Component Trace Service.
- ENF Updates (see page 24)—Added OPS/MVS Staterman Integration.
- CA Common Component Trace Service (see page 25)—Added this section.
- CA Common Recovery Management Service (see page 25)—Added this section.
- CAUNZIP Utility (see page 25)—Added this section.

The following documentation updates have been made since the first release of this documentation:

- CA LSERVER ADDPOOL Command (see page 17)—Added this section.
- Post Release 14.1 Enhancements (see page 23)—Added this section.
- Version 14.0 Enhancements (see page 29)—Added this section.
- Version 12.0 Enhancements (see page 39)—Added this section.
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Apply Necessary Fixes

To ensure proper operations, apply the necessary fixes.

**Note:** If a higher release of the following CA products is available, the required PTFs are included with that release.

<table>
<thead>
<tr>
<th>Product</th>
<th>Release</th>
<th>Required PTFs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Scheduler</td>
<td>9.1</td>
<td>RO06409</td>
</tr>
<tr>
<td>CA Scheduler</td>
<td>11.0</td>
<td>RO06408</td>
</tr>
<tr>
<td>CA 7</td>
<td>11.1</td>
<td>RO06863</td>
</tr>
<tr>
<td>CA Jobtrac</td>
<td>11.0</td>
<td>RO06413</td>
</tr>
<tr>
<td>CA CPM for Scheduler, 7 or Jobtrac</td>
<td>3.0</td>
<td>RO06862</td>
</tr>
<tr>
<td>CA Dispatch</td>
<td>11.0</td>
<td>RO02756 (Also see PDCRI10078)</td>
</tr>
<tr>
<td>CA Mainframe Software Manager</td>
<td>3.1</td>
<td>RO31485</td>
</tr>
<tr>
<td></td>
<td>4.1</td>
<td>RO44241</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO42491</td>
</tr>
<tr>
<td>CAICCI (Compatibility)</td>
<td>12.0</td>
<td>RO28817</td>
</tr>
<tr>
<td>CAICCI (Compatibility)</td>
<td>14.0</td>
<td>RO54319</td>
</tr>
<tr>
<td>CAICCI (Compatibility)</td>
<td>14.1</td>
<td>RO54318</td>
</tr>
<tr>
<td>CA Easytrieve Plus Report Generator</td>
<td>11.6</td>
<td>RO42229</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO42230</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO42231</td>
</tr>
<tr>
<td>CAIENF</td>
<td>14.1</td>
<td>RO46101</td>
</tr>
</tbody>
</table>
JCL Procedures

The following PTFs are included with the CCS Release 14.1 optional services SMPMCS as PTFs that must be applied over the installed FMID.

<table>
<thead>
<tr>
<th>Product</th>
<th>Release</th>
<th>Required PTFs</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSS</td>
<td>14.0</td>
<td>RO31779</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO34310</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO39025</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO42823</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO43136</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO44289</td>
</tr>
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<td></td>
<td></td>
<td>RO45372</td>
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<td></td>
<td>RO45564</td>
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<tr>
<td>XPS</td>
<td>14.0</td>
<td>RO35679</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO44367</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RO45565</td>
</tr>
</tbody>
</table>

JCL Procedures

Use the JCL procedures that come with this release. Do not use any existing JCL procedures that you have from previous releases.

CICS JCL Review

Before you implement CA ENF/CICS Release 14.1, review all CICS JCL. Determine if a region runs with a private area copy of the CA ENF/CICS intercept module CAS9Cxx, where xx is the CICS release number 64-69.

If the intercept module resides in the CICS STEPLIB or in a DD in the CICS JCL named CENFLIB, a CICS region loads a private copy of the module. If you determine that a CICS region is running in such a manner under an older CCS release, modify the JCL. Point to the new CCS CAW0LOAD data set. Complete this modification when you implement Release 14.1. Failure to do so can lead to unpredictable results.

CAICCI PORT Numbers

If you are upgrading from a CCS release before Version 14.0, the CCITCPGW/CCISSLGW procs now default to PORT# 1721. To revert to the previous default PORT# of 7000, review the PROTOCOL and NODE control options. From these option definitions, you can learn how to override the default PORT#.
Review HOLDDATA when Installing S1401

If you are using CCS Release 14.1 and want to start using a higher maintenance level by performing a new installation of the S1401 Update Level rather than upgrading, review the following HOLDDATA and take the steps that it describes. Additionally, the HOLDDATA for CAIENF RO54507 also applies if you are a customer running CCS Version 14.0, who has previously upgraded your CAIENF to run with CA Datacom/AD Version 14.0 and now intend to use the same CAIENF database with CCS Release 14.1.

Reviewing the HOLDDATA helps prevent various errors. For example:
- CAIENF initialization errors if you are running CAIENF with a database
- Errors in CA Endevor SCM functions that require CAICCI Spawn
- Problems that are related to zIIP Enablement Service exploitation if you are using CA SYSVIEW

CA Endevor SCM—HOLDDATA from ROS2401

Apply the following PTFs depending on the version of CA Endevor SCM that you are using:
- Version 14.0—RO54497
- Version 15.0—RO54521, RO55097
- Release 15.1—RO53251, RO53252, RO55098

CA SYSVIEW—HOLDDATA from RO57370

Apply the following PTFs depending on the version of CA SYSVIEW that you are using:
- Version 13.0—RO56696
- Release 13.5—RO56697
- Release 13.7—RO56698

CAIENF—HOLDDATA from RO54507

S1401 provides a CAIENF enhancement. All CAIENF events now include a TIMEL (Time Long) field. The TIMEL field carries four more digits of precision over the TIME field (TIME goes down to hundredths of a second).

Use this enhancement if your system requires greater time granularity than hundredths of a second for all event listening situations. CA Technologies products that use CAIENF for listening for events can switch to using the TIMEL field.

If RO54507 is not applied to an existing CCS Release 14.1 CAIENF environment that does event recording, implement S1401 by dropping all the CA Datacom/AD CAIENF Event related tables.
The code changes associated with this update also include an update to the CAS9DBC module and corresponding plan.

Follow these steps:

1. Shut down CAIENF.
2. Start the CAIENF related CA Datacom/AD MUF in its own address space.
3. Submit CAW0JCL member CASQL001 and obtain a list of CAIENF Event tables.
4. Edit CAW0JCL member CASQL004 with the list of tables to be dropped that you obtained at Step 3. Then, run job CASSQL004.
5. Use the updated CAW0JCL member AW1IMPRT and import the new plan.
6. Shut down the MUF if you typically run it as an ENFIMUF.
7. Restart CAIENF with the REINIT parameter (that is, S ENF,,REINIT). Ensure that the CAIDCM DD statement is using the CAW0DCM data set with the DCM modules with RO54507 applied. Confirm that the same CAW0LOAD that was used during the import is being used to start CAIENF.
8. Start CAIENF.

The CAIENF initialization code redefines the Event related tables with the expanded time column, TIMEL.

If CAIENF is started with either the old version of code and new version of the CA Datacom/AD CAIENF tables, or the new version of the code and the old version of the CA Datacom/AD CAIENF tables, error messages are logged.

The following messages are displayed if S1401 is implemented incorrectly:

CAS9320E - Conflicting #columns attribute detected in event xxxxxx
CAS9329E - Recording is disabled for active event "xxxxxxx"
CAS9328W - Recording is disabled for inactive event "xxxxxxx"

CA Easytrieve Installation

For more information about CA Easytrieve installation, see the CA Easytrieve Report Generator 11.6 Installation Guide. Follow the installation instructions that appear in Appendix B: Installing CA Easytrieve Report Generator When Packaged With CA Common Services.
Chapter 2: Release 14.1 Enhancements

USERMOD Replaced with CAIRIM Control Statements

In previous releases, after CCS was installed, if you were using CAISSF for IBM RACF, you were required to install a user modification (USERMOD). This modification updated class tables that were embedded within CAS9RACL and CAS9SAFC.

In this release, control statements in the CAIRIM initialization routine replace that USERMOD. After the installation, you identify IBM RACF class table values in your existing user modification and code the necessary parameters using CAIRIM control statements. This change is a one-time occurrence, unless a new CA product is installed and it requires a class table entry.

Consolidated the CAISDI/els and CAISDI/med Interfaces and Added Functionality

This release adds an application to enhance existing CAISDI/els (Event Library Support) and CAISDI/med (MVS Event Director) interfaces. The CAISDI/els and CAISDI/med functions are now combined into one application (CAISDI/elmds), which runs in a permanent address space.

The CAISDI/elmds adds the following functionality for the CA products that use CAISDI/els and CAISDI/med:

- CA products can now potentially “update” and “close” a ticket.
- CA products can potentially provide more detail in identifying the component that created a ticket.
- CAISDI/elmds can be initialized when the CAISDI/soap Server or Service Desk is not available.
- Tracing and messaging are consolidated to a single SYSOUT which can be spun to aid in diagnostics.
- New messages replace the CAISDI/els and CAISDI/med messages, which were presented as WTO messages. A message file is delivered where individual messages can be designated to be written as a WTO message. You can turn off the existing WTO messages.
- Reduced CSA (Common Storage Area) usage for the CAISDI/els support.
Data Set Changes

You must add the CAW0PLD data set to the system linklist. In the previous CA Common Services (CCS) release, the CAW0PLD data set could optionally be added to the system linklist.

**Note:** CA Common Services for z/OS Release 14.1 includes only the BASE and OPTIONAL components. The LEGACY and MFNSM components remain at the CCS Version 14.0 level. From a data set perspective, if you are running Version 14.0, continue to use the Version 14.0 low-level qualifier CCCS* and CNSM* data sets. Replace only the running low-level qualifier CAW0* data sets with Release 14.1 level CAW0* data sets.

You can install Release 14.1 into a new SMP environment or you can install this release into the same SMP environment as Version 14.0. If you are upgrading from a release older than Version 14.0, install Release 14.1 into a new SMP environment.

If you install Release 14.1 into a new SMP environment, your new environment only includes the CCS Base and Optional components. You can continue to use your older Version 14.0 SMP environment for CCS Legacy, MFNSM components, or both. To clean up the Base and Optional FMIDs from the older Version 14.0 SMP environment, run the sample JCL member CAW0CLN. This sample member resides in the Release 14.1 CAW0JCL dataset.

CA Easytrieve Report Generator Packaged With CA Common Services

With CA Common Services for z/OS (CCS) Release 14.1, CA Easytrieve Report Generator is packaged with CCS as a separate product with a separate installation process. This repackaging eliminates the need for multiple CA Easytrieve Report Generator installations and the complexities of managing and maintaining those installations.

The CA Easytrieve Common Reporting Service has been discontinued and replaced with CA Easytrieve Release 11.6, the full product. If the full product LMP key is not installed, this product operates in a CCS-restricted manner. CA Easytrieve Plus Report Generator Release 11.6 PTFs RO42229, RO42230, and RO42231 must be applied for the common service functionality to work. If you have an active CA Easytrieve Report Generator Release 11.6 license, you do not need to install the copy that is packaged with CCS. All product functionality is available. If you do not have an active license and you are running a CA product that requires CA Easytrieve Report Generator, install the copy that is packaged with CCS. The product functionality is restricted to running CA Easytrieve Report Generator reporting jobs that are distributed with other CA products.
The CA Easytrieve Release 11.6 installation process builds a separate SMP environment for CA Easytrieve. If Release14.1 is installed into the same SMP environment where Version 14.0 was installed, the installation process also cleans up the old release of the CA Easytrieve Common Service (Release 6.4) from this SMP environment. Release 14.1 supplies a sample job, CAW0EZTD, in the CAI.CAW0JCL dataset. To delete the old release of the Easytrieve Common Service from the Version 14.0 and Release 14.1 SMP environment, use this dataset.

If the JCL that you use to run the CA Easytrieve Common Service jobs contains a DD statement for a macro library, which is usually with the DDName of PANDD, the DSN of that macro library must correspond to the DSN of the executable library that is used for that job. The macro library and the executable library must be from the same installation of CA Easytrieve Report Generator.

**Note:** For more information about installation, see the *CA Easytrieve Report Generator 11.6 Installation Guide*. Follow installation instructions provided in *Appendix B: Installing CA Easytrieve Report Generator When Packaged With CA Common Services*.

### CA LSERV ADDPOOL Command

The CA LSERV ADDPOOL command now allows a maximum of 65,535 buffers per buffer size. The previous maximum was 512.

### CA Datacom/AD

CA Common Services for z/OS (CCS) Release 14.1 is designed to work with CA Datacom/AD Version 14. Release 14.1 also works with CA Datacom/AD Version 12.0.

The installation deployment procedure is revised for CA Datacom/AD r14. If you use this procedure, review the information carefully for changes since the last release of CCS.
Background Information

CAIENF Release 14.1 is designed for use with CA Datacom/AD Version 14.0. CAIENF Release 14.1 sample jobs and procs are constructed for use with CA Datacom/AD Version 14.0. The CAIENF users that have RECORD(YES) specified should perform one of the following steps:

- upgrade to CA Datacom/AD Version 14.0 during the CCS Release 14.1 upgrade

CAIENF Release 14.1 remains compatible with CA Datacom/AD Version 12.0, but we recommend upgrading to CA Datacom/AD Version 14.0 immediately. If you delay this upgrade, import the CAIENF r14.1 Datacom Plan into the Datacom catalog. Use the sample AW1IMPRT job from your Version 14.0 CAW0JCL data set. The CAIENF Release 14.1 plan has a new name so it can be imported with CAIENF up and running ahead of your Release r14.1 upgrade.

Sites that use Event Management Calendars or Message Actions also must upgrade the shared CAIENF MUF to CA Datacom/AD Version 14.0. Sites can redefine their Calendars, Message actions, or both in an AD Version 14.0 Event Management newly initialized database. Sites can also migrate the Event Management database from an AD Version 12.0 database to an AD Version 14.0 one. To do the latter, use the CA Datacom/AD database backup and restore utility.

Sample Datacom Version 12.0 Event Management database backup JCL

```//BKUPSTP EXEC PGM=DBUTLTY,REGION=1M
//STEPLIB DD DSN=ADHLQ.CUSLIB,DISP=SHR
//      DD DSN=ADSHLQ.CAAXLOAD,DISP=SHR
//      DD DSN=CCXHLQ.CUSTOM.CXX,DISP=SHR
//      DD DSN=CAIEMBK..BK1011,DISP=(NEW,CATLG),
//          UNIT=GBKUPU, &GBKUPVOL, SPACE=(CYL,&GBKUPCYL)
//SNAPER DD SYSOUT=*  //SYSPRINT DD SYSOUT=*  //SYSSOUT DD SYSOUT=*  //SYSIN DD *
COMM OPTION=CLOSE,DBID=1011
BACKUP DBID=1011,DDNAME=DBK00001,SEQ=PHYSICAL /*
```
Changes to the Customization Required for RACF Sites

This release introduces a change in the way customization is performed for IBM RACF sites.

**Important!** If you do not use RACF or if you have not modified or customized the RACF security tables in CAS9SAFC or CAS9RACL, skip this section.

CCS previously distributed CAS9SAFC and CAS9RACL as load modules and sample source code. You could modify the security tables within these modules to meet certain needs. These modules are no longer being distributed and the security tables have been removed from them. CAIRIM now dynamically creates the security table. CAIRIM has new parameters that can be used to customize the dynamic table.

Sample Datacom Version 14.0 Event Management Restore JCL

```clp
//DBUTL EXEC PGM=DBUTLTY,REGION=4M
// STEPLIB DD DISP=SHR,DSN=&ADHLQ.CUSLIB
// DD DISP=SHR,DSN=&ADSHLQ.CAAXLOAD
//*
// EM00001 DD DISP=SHR,DSN=&BKHLQ.CUSTOM.BK1011
//*
// EM01011 DD DSN=EMDBHLQ.DCOMAD14.EM01011,
// DD DISP=(NEW,CATLG),
// SPACE=(TRK,(375,50)), <= CHANGE
// UNIT=SYSDA, VOL=SER=vvvvvvv <= CHANGE
// IXX1011 DD DSN=EMDBHLQ.DCOMAD14.IXX1011,
// DD DISP=(NEW,CATLG),
// SPACE=(TRK,(175,50)), <= CHANGE
// UNIT=SYSDA, VOL=SER=vvvvvvv <= CHANGE
//*
// CXX DD DISP=SHR,DSN=&ADMHLQ.&CXXNAME.CXX
//*
// SYSIN DD *
INIT DBID=1011,AREA=IXX
INIT DBID=1011,AREA=EM0
LOAD DBID=1011,DDNAME=EM00001,FORMAT=BACKUP,
SORT=10000000, OPTIMIZE=YES, KBYTES=500
/*
Create a member in a parameter library of your choice. The member name can be anything that fits your company standards. The default for the library is CAI.CAW00OPTN and the default for the member name is RACFLIST. The CAS9 procedure contains the following DD statement:

```shell
//*CAIRACF DD DISP=SHR,DSN=CAI.CAW00OPTN(RACFLIST)
```

To match your requirements, uncomment the statement and update the DSN and member name.

The dynamic table contains the following entries:

<table>
<thead>
<tr>
<th>CA Solution Class Name</th>
<th>Translated Class Name</th>
<th>FASTAUTH</th>
<th>Used by CICS</th>
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</thead>
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### Changes to the Customization Required for RACF Sites

#### Chapter 2: Release 14.1 Enhancements

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<td>VTRMNODE</td>
<td>VT@MNODE</td>
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<td></td>
</tr>
</tbody>
</table>

Update the table with control statements as needed based on your past customizations.

**Example**

To change the CACMD entry to disable the fast RACF Check and to use CAADMIN under CICS, create a member with the following control statements:

```
RACFCLASS CACMD,CA@MD,FASTAUTH=NO
RACFCLASS CAADMIN,CA@DMIN,FASTAUTH=YES,CICS=YES
```
Important! Applying these enhancement PTFs is optional. Additionally, to use the features in each PTF, apply the maintenance according to your regular site procedures.

CA MASTER Updates

PTF RO47457, RO52582, and RO52583

CAMASTER now lets you control the automatic startup of CAMASTER infrastructure address spaces. This update adds:

■ The ability to override the default parmlib member name (which is CAIMST20) using a keyword inside of parmlib member CAIMST00.
■ The ability to control how often in a given interval CAMASTER automatically restarts an address space that ends unexpectedly.
■ The ability to issue CAMASTER commands to start an address space.

For example, you can start CAHCHECK using:

"F CAMASTER,START COMPONENT=CAHCHECK"

instead of

"S IEESYSAS,PROG=CAHCHECK,JOBNNAME=CAHCHECK,TIME=1440,SUB=MSTR,REUSASID=YES"
The Common Address Space Shell

PTF RO52583 - Common Address Space Shell

This enhancement introduces the Common Address Space Shell (CASRV). This service is part of the CAMASTER FMID. The CASRV provides an environment where CA components or CA products can be hosted in a secure environment with the proper z/OS integrity while providing you consistent operational behavior. The CASRV is designed such that you can start multiple address spaces using the CASRV component using unique JCL PROCs or parameter files.

PTF RO52583 - Common Message Service Updates for CASRV

The Common Messaging Service is enhanced to support the same message table that more than one address space is using.

PTF RO57236 & RO57237 - CA Common Component Trace Service

Exploitation of the CA Common Component Trace Service was added to the CASRV. This enhancement supports tracing within the shell for problem diagnosis.

Note: For more details, see CA Common Component Trace Service (see page 25).

CAIRIM Updates

PTF RO52581 - SYSPLEX Parameter Sharing

CAIRIM is enhanced to support IF/ENDIF logic statements, LOG/NOLOG keywords, and system symbols in RIMPARMs to improve the SYSPLEX parameter sharing capability.

No special requirements exist when migrating to this new feature. To use the newly supported syntax capabilities, update your RIMPARM statements. All RIMPARM statements remain the same.

ENF Updates

PTF RO52193 - Improved ENF Tolerance of Accidental MUF Shutdown

Before this PTF, if the CA Datacom XMUF or IMUF mistakenly shut down while ENF was up, ENF produced many SOC4 abends. This enhancement lets ENF stay up and reconnect to a CA Datacom XMUF if it is restarted.

PTF RO56527 - OPS/MVS Stateman Integration

The OPS/MVS Stateman integration was added to ENFSNMP Monitor.

PTF TR75087 – ENF acquires a JES JOBID when executing as SUB=MSTR
CA Common Component Trace Service

PTF RO57236 and RO57237

CA Common Component Trace Service is a new common service. This service lets CA products implement the use of IBM CTRACE. The CA products that use this service document how to stop and start traces for their product under normal rudimentary conditions.

This new service is added to the CAMASTER FMID. CAMASTER initializes this component on the system.

CA Common Recovery Management Service

PTF RO57236 and RO57237

CA Common Recovery Management Service is a new common service. This service lets CA products that consist of a large complex system of code easily switch recovery routines. The switch occurs as the code progresses from one area of code to another. The switch occurs without a complete and separate recovery routine for each area of the code. This service compliments/extends the previously introduced Serviceability subcomponent of CAIRIM.

This service is added to the CAMASTER FMID. CAMASTER initializes this component on the system.

The CAUNZIP Utility

PTF RO54635

This TSO utility extracts the contents of a Published Solutions maintenance package order from the Download Center on CA Support Online. This utility lets you process zip-format packages directly on z/OS without the need for an intermediate platform such as a Windows workstation. The utility extracts the contents of the order and produces a Network Temporary Store (NTS) formatted set of z/OS UNIX files. These files can be used for SMP/E RECEIVE processing.

CA Common Variable Service

PML RI64967 and PTF RO59525 - CA COMMON VARIABLE SERVICE Pax file - 140001AW050.pax.Z

The CA Common Variable Service is a new common service. This service supports CA Technologies products that are required to maintain system and sysplex scope status variables using the new CAVARSRV address space. By default, this service does not automatically initialize on a system after installation. If a CA Technologies product requires the service, start it manually.
CA Hardware Interface Service for z/OS

HIS and Linux Connector Pax file - 140001AW060.pax.Z

The CA Hardware Interface Service for z/OS enables a product to retrieve information from the Hardware Management Console (HMC). A product can send a query to the service, which in turn interrogates the HMC through the Base Control Program internal interface.

CA Mainframe Connector for LINUX on System z

HIS and Linux Connector Pax file - 140001AW060.pax.Z

CA Mainframe Connector for LINUX on System z enables client products to manage the Linux resources on z/VM systems. The feature provides the z/VM and Linux message, and command and response services that client products use to manage the Linux resources.

Feature components:

- A z/OS region (or task)
- A z/VM agent on each z/VM system that hosts the Linux systems you want to manage through the client products
- A Linux agent on each Linux system

Documentation Rearchitected

We have simplified the guide structure to improve content findability:

- All overview information now resides in the new Getting Started Guide.
- All troubleshooting information now resides in the new Troubleshooting Guide.
- All CA Service Desk implementation information now resides in the Installation Guide.
Modernized Product Documentation

Your product documentation is evolving. Announcing the CA Common Services for z/OS wiki, a collaborative environment that lets you:

- Find answers quickly with intuitive search
- Access current information on mobile devices
- Export content to PDF or Word documents
- Rate or comment on any topic, and provide feedback to CA Technologies

We look forward to your feedback. We monitor and update the wiki regularly.

We recommend that you use Chrome or Firefox to access: https://wiki.ca.com

We will continue to deliver the bookshelf as users get acclimated to this new content model.

CASOAPE Environment Variable Updates

PTF RO77244 - Added the CL_ALL Option

Lets you convert XML data from EBCDIC to UTF-8 before sending it to CA Service Desk on a distributed server.
Appendix A: Version 14.0 Enhancements

When you upgrade, this section can help you identify the updates that you receive in addition to the Release 14.1 enhancements.

**DVD Delivery**

This product can be installed from directories on your CA Technologies mainframe product DVD. For more information, see the *Installation Guide* on the DVD.

**CA OPS/MVS System State Manager**

CA ENF can automatically communicate active status events and heartbeat events to CA OPS/MVS EMA. The enabling technology is through a generic active status or heartbeat event API call that CA OPS/MVS EMA provides to other CA mainframe products. This call helps communicate events consistently to CA OPS/MVS EMA.

**CA Common Services for z/OS Delivered as Four Pax Files**

CA Common Services (CCS) is now delivered as four pax files rather than one file.

The number of services in CCS has grown over time. Managing the bundle of common services as one deliverable has become challenging:

- Some common services are needed at all customer sites.
- Some common services are optional and require some scrutiny whether to install them.
- Some common services have a regular maintenance stream, and some legacy common services have little maintenance.
- Some common services are ported to z/OS from other platforms. Their release schedule is tied to the product release schedule of a distributed platform product.
To manage different common services independently, Version 14.0 offers the following pax file common service bundles:

**Base (Required) Common Services**
- CAIRIM, CAIENF, CAICCI, CAECIS, CA Health Checker, CA Master, CA Mainframe Software Manager

**Optional Common Services**
- CAIENF/CICS, CAIENF/CICS Spawn, CAIENF/DB2, CAIENF/USS, CAISDI, CA Easytrieve, CA GSS, CA GREXX, CA XPS, Apache Tomcat

**Legacy Common Services**
- CA-C Runtime, Viewpoint, CA Earl, SRAM Service, CA L-Serv

**Mainframe CA NSM Common Services**
- Event Management, Agent Technology

Legacy and Mainframe CA NSM Common Services are installed into their own Low-Level Qualifier target libraries. They are installed this way because these bundles receive upgrade activity at a slower pace than the Required or Optional Common Services. Optionally, you can also assign a different High-Level Qualifier to the Legacy and Mainframe CA NSM Common Services. This option lets you upgrade the Required Common Services and the Optional Common Services. You can then leave the Legacy Common Services and Mainframe CA NSM Common Services at their existing software level.

The next release of CCS beyond Version 14.0 will not include the Legacy and MFNSM pax files. You can continue to use your installed Version 14.0 Legacy and MFNSM installed and deployed data sets. Therefore, the CCS Version 14.0 non-CA MSM or non-CA CSM installation has separate jobs for handling the Legacy and MFNSM data set allocations and DDDEFS.

Optional common services have data set allocations and DDDEFS that are included with the BASE AW0 prefixed jobs for the following reasons:
- The Optional Common Services has the same release schedule as the base for at least another CCS release.
- The Optional Common Services target libraries overlap almost completely with the Base Common Services target set of libraries.

### Apache Tomcat Delivered with CCS

Many CA products require or optionally need Apache Tomcat as their Web Application Server. Many products separately deliver Tomcat with their product installations. Tomcat lets you share the binary executables and still run separate instances of Tomcat as needed. With CCS Version 14.0, you can install Tomcat as part of the Optional Common Services.
zIIP Enablement Service

This release supports a new subcomponent of the CAIRIM common service named the zIIP Enablement Service. Given the right circumstances, some CA products can exploit this service to run some of their code on zIIP processors.

LMP Key

This release supports Dynamic LMP key removal from a system. Some modern data centers do not initial program load (IPL) their systems for a long time. With this feature, an LMP key can be removed from a system without an IPL. This feature is useful when you decide to discontinue a CA product. With the LMP key removed, if the product was still being used, LMP key warning messages would begin. This warning could help a site learn that the product was still required on a particular system. This warning could identify users who have not been informed to discontinue using the product usage.

CAIENF Event Maximum Record Length Increased

CAIENF Version 14.0 increases the maximum event record length from 255 to 10,000. While there was previously a provision within ENF for events with lengths greater than 255, such events could not be recorded to the ENF database. CA products can now define events with ENF DCM modules that are up to 10,000 bytes long. They can also request that such events have recording enabled.

CAIENF EMCS Console Command Response

CAIENF Version 14.0 builds on the EMCS console command response support that began in CAIENF r12.0. Many more ENF commands now support the full response of a command being directed to the EMCS console where the command was issued. For example, if the ENF STATUS command is issued under SDSF, the response does not force you to scroll to the SYSLOG display bottom.

CAIENF SCREEN and SELECT Parameter Logical AND Capability

Before ENF Version 14.0, only logical OR could be achieved with the ENF SCREEN and SELECT parameters. CAIENF Version 14.0 provides a new syntax on the ENF SCREEN and SELECT parameters. These parameters permit a logical AND as well as a logical OR of specified SCREEN conditions and SELECT conditions.
CAIENF/SNMP SNMPv3 Support

CAIENF/SNMP Version 14.0 provides support for sending the SNMP traps using the SNMPv3 protocol. This change allows sending SNMPv2 Trap PDUs using the SNMPv2c or SNMPv3 protocol. When using the SNMPv3 protocol, the following combinations are supported:

- No authentication, no privacy
- Authentication, no privacy
- Authentication, privacy

Note: These combinations are the only allowed ones that the SNMPv3 protocol defines.

CAIENF/DB2 DB2 v10.1 Support

CAIENF/DB2 Version 14.0 incorporates the DB2 v10.1 support that was available through the maintenance for the older CA Common Services releases.

CA Health Checker Common Service r12.1 Incorporated

CA Health Checker Service Release 12.1 and CAMASTER are now included within the Base Common Services at Version 14.0.

CAIENF/USS Performance Improvements

CAIENF/USS Version 14.0 performance changes improve internal control block handling for the USS applications that perform considerable DUBing and UNDUBing. These improvements reduce CPU consumption for such applications.

In addition, ENF/USS’ dataspace under Version 14.0 is now associated with the CAMASTER address space rather than the z/OS MASTER address space. This association helps to isolate operating system and nonoperating system resources.

Be aware of the following important considerations:

- Having the CAMASTER address space up and running is now a requirement to run ENF/USS. The CAMASTER address space is automatically started when the CA Common Services Version 14.0 CAW0LPA data set is added to the system LPA list through ‘SYS1.PARMLIB(LPALSTxx)’ and the CAW0LINK data set is added to the system linklist through ‘SYS1.PARMLIB(LNKLISTxx)’ or ‘SYS1.PARMLIB(PROGxx)’.
- For z/OS 1.13 and later operating systems, you are no longer required to include the CAW0LPA data set in the LPA list.
CAICCI Spawned Task Soft Shutdowns

CAICCI Version 14.0 now soft stops spawned started task address spaces, such as CCISSL, CCISSLGW, and CCILGR rather than canceling them. The cancellation causes an S222 abend. Some sites have automation software that is tripped for any abend condition in an important address space. Consider special provisions for S222 abends. Eliminating the S222 abend avoids having to make any special automation arrangements. In general, associated job logs and syslog entries are cleaner too.

CAISDI/Soap Support for CA Service Desk r11 WSDL

CAISDI/Soap Version 14.0, the CA z/OS product Service Desk Interface Web Service Client interface, now supports the higher-level CA Service Desk WSDL, the Release 11.0 level WSDL. Before CAISDI/Soap Version 14.0, the CA Service Desk Release 6.0 level WSDL was required for mainframe product interfacing. CA Service Desk has thus been shipping two levels of the WSDL. CA Service Desk can run the Release 11.0 level WSDL and the Release 6.0 level WSDL concurrently by assigning each a different URL. This enhancement lets the CA Service Desk product team remove the Release 6.0 level WSDL from their product delivery.

CAISDI/Soap Version 14.0 now uses the IBM XML parser so that changes in XML standards do not necessarily require changes to the CAISDI/Soap product.

CAISDI/Soap Version 14.0 has also been enhanced so that it can handle all of the XML processing within the CAISDI/Soap address space. CAISDI/els and CAISDI/med have been updated so that they no longer must perform XML processing themselves. This enhancement gives CAISDI/els and CAISDI/med support for the CA Service Desk Release 11.0 level WSDL too.

CAISDI/Soap Version 14.0 delivers a new started task proc in the CAWOPROC dataset named CASOAPE. This proc is used for communicating with a CA Service Desk that runs the Release 11.0 level WSDL. The original proc named CASOAP is also still delivered for communicating with a CA Service Desk platform that runs the Release 6.0 level WSDL. Depending on your CA product mix, you can discontinue the Release 6.0 level WSDL on your CA Service Desk platform. You can then only run the Release 11.0 level WSDL. You may need to run CASOAP and CASOAPE concurrently.
CAISDI/Soap Base Support for Closing and Updating CA Service Desk Tickets

CAISDI/Soap Version 14.0 delivers support to exploit the CA Service Desk Web Service methods of closing or updating open CA Service Desk tickets. This support is at the CA Soap base level. This level lets the CA products that use the base CAISDI SOAP API enhance their products to provide, close, and update CA Service Desk tickets. CA network management products fit in this category.

CAISDI/els and CAISDI/med will be enhanced in a future release of CA Common Services. Then, the CA products that exploit the CAISDI/els or CAISDI/med APIs are positioned to use this CAISDI/Soap enhancement.

CAISDI/Soap Version 14.0 delivers a new startup procedure in the CAW0PROC data set named CASOAPE. When enhanced CA networking management products are installed that support open and updating CA Service Desk tickets, the following rules apply:

- The CASOAPE address space must be started.
- CASOAPE must be configured to communicate with a CA Service Desk platform that is running the r11 WSDL.

Conversely, if the CA network management products are not running their enhanced levels, continue to use the CASOAP proc to communicate with a CA Service Desk running the Release 6 level WSDL. If CAISDI/els or CAISDI/med products are in use on the same system, start CASOAPE.

The following CA Products use the CAISDI/Soap base API. Therefore, they require the running of the CASOAP proc until these products deliver enhancements that let them run the CASOAPE proc. The enhancement could take advantage of closing and updating Service Desk tickets.

- CA NSM NetMaster Option
- CA Netspy Network Performance
- CA JARS DSA Resource Management Option
- CA MICS
## Changes to Data Set Names

Many data set names have changed. To determine the impact to your installation, review the following table:

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<th>New Name</th>
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The common services that are included in the Base Common Services or Optional Common Services bundle are installed into target data sets. These data sets have a CAW0xxxx low-level qualifier.
Changes to CAICCI Protocols

The common services that are included with the Legacy Common Services bundle are installed into target data sets that have a CCCSxxxx low-level qualifier.

The common services that are included with the Mainframe CA NSM Common Services bundle are installed into target data sets with a CNSMxxxx low-level qualifier.

**Note:** For CCZS Version 14.0, the traditional load library, in the past named CAILIB or CAILOAD, has been split into data sets. The data set low-level qualifiers indicate whether the load library is required to be in the system linklist or if it can be optionally added to the system linklist. The data sets with a CiiiLINK low-level qualifier must be placed in the system linklist. The data sets with a CiiiLOAD low-level qualifier can optionally be placed in the system linklist. If not placed in the system linklist, CiiiLOAD data sets must be STEPLIBed to JCL that requires load modules from the CiiiLOAD data sets. Due to the nature of CCS, we recommend that you also place CiiiLOAD data sets in the system linklist to eliminate the need for STEPLIBs.

**Changes to CAICCI Protocols**

Before CAICCI Version 14.0, multiple TCP/IP protocols were available (SSL capable and older non-SSL capable). Because the CCI SSL capable TCP/IP protocols also support running in non-SSL mode, for CAICCI Version 14.0, only the SSL capable code is delivered. The SSL capable protocol code has shown itself to be robust, production capable, and well performing. This performance has made it possible to run only the SSL capable protocols—TCPSSL and TCPSSLGW. The TCPSSL and TCPSSLGW protocols support TCPIPv6, whereas the older TCPIP and TCPIPGW protocols do not.

So the CCIPARMS that specify protocols TCPIP or TCPIPGW do not need an immediate update to specify TCPSSL or TCPSSLGW, the CCITCP proc ships in the CAW0PROC data set precustomized with JCL. This JCL executes the SSL capable program but set up to run in non-SSL mode. Similarly, the CCITCPGW proc JCL is delivered in the CAW0PROC data set precustomized to run the SSL capable code in a non-SSL mode. Thus, if the Version 14.0 CCITCP or CCITCPGW procs are customized and deployed to your system proclib, then the CCIPARMS do not require an update.
Changes to CCIPC

CCIPC is the Microsoft Windows CAICCI software for CA products that require a client/server connection with the mainframe using the TCPSSL protocol, formally the TCPIIP protocol (see Changes to CAICCI Protocols (see page 36)). CCIPC is now available with 64-bit addressing and 32-bit addressing. The CCIPC 32-bit addressing self-extracting executable is named CCIPCS32. The 64-bit addressing self-extracting executable is named CCIPCS64. Both are now Install Shield-based. If that PC is running a 64-bit version of Windows, they can be installed onto the same PC. The new 64-bit CCIPCS64 installation allows CA Windows-based products that are written to run in 64-bit addressing mode to communicate with the mainframe.

With CCIPC Version 14.0, end-user SSL certificates are supported in PKCS#12 format. User and CA certificates can be stored and accessed from the Windows Certificate Store.

Changes to Supported Versions of CICS


Component Trace Improvements

Component Trace support has been added for CAICCI.

The new CAICCI auto command CCICT has also been added to provide for the customization of the component trace environment including the component name.

Unlimited CPU Support

The latest IBM zSeries hardware and z/OS v1.12, currently have a CPU limit of 80 per LPAR. This limit recently went up from 64 on the old zSeries hardware.

CCS Version 12.0, with properly applied maintenance for r12.0 ENF and CAICCI components, supports up to 128 CPUs per LPAR.

With CCS Version 14.0, the number of CPUs supported is unlimited. This enhancement positions CCS Version 14.0 for growth moving into the future. The enhancement also frees up a small amount of real storage that is required to handle each 16 CPU increment.
Appendix B: Version 12.0 Enhancements

When you upgrade, this section can help you identify the updates that you receive in addition to the Release 14.1 enhancements.

General Updates

This release includes the following updates to specific terms, versions, features, and products:

- Older releases of CA products using CCS can still refer to the CCS load libraries as CAI.CAILIB and CAI.CAIPDSE. To standardize CA product libraries, CAI.CAILOAD and CAI.CAIPLD now replace CAI.CAILIB and CAI.CAIPDSE.
- The ENFplex function has been removed to prepare for some enhanced functionality in a future release.
- The ENF/Extract feature has been removed. With the change to CA Datacom/AD as the recording database for events, CA Datacom/AD standard utilities replace this functionality.
- If the operating system is before z/OS 1.4, ENF now ABENDs. This update was made due to the limited ENF functionality when running versions before z/OS 1.4.
- ENFQ, CAS9DB, VPE, MFLINK, CA PROFILE, and CAICCI 1.1 have been removed. Only CAICCI Version 12.0 is available.
- This release includes ENF enhancements to improve the product performance and reliability.
- Support has been added for routing LMP input processing messages to a SYSPRINT DD instead of to the console/syslog.
- Console processing has been changed to use 4-byte console IDs instead of 1-byte console IDs.
- S910INIT has been changed to CAS9INIT. For the CAISSF installation, update the INIT statement with CAS9INIT instead of S910INIT.

Support User-Defined Job Failure Messages in ENF

The CCS Version 12.0 installation facility now allows user-defined message prefixes to be added to the ENF table that identifies job failure messages.
New Trace Facility

This release offers a trace facility in the Base CAENF product with the following characteristics:

- The tracing facility uses the standard IBM Component Trace facility.
- ENFCT is an optional ENF parameter file statement. This statement lets you define:
  - The component name
  - The number of buffers
  - The size of a buffer
  - The Component Trace parmlib member name (to set the default tracing).
- The traced ENF events can be assigned a trace event ID.
- Event ID Groups (EIDG) are provided as a way to group sets of trace event IDs. EIDGs allow a single identifier to be used, rather than having to list each event ID individually.
- Trace sets that define a set of EIDGs to be traced are provided and are referenced with a trace Set ID.
- The Component Trace Start/Stop Routine (SS-Routine) provides the interface for activating, deactivating, defining, deleting, enabling, disabling, modifying, pausing, resuming, and listing status or information about trace sets.
- The SS-Routine lets you connect and disconnect the Writer. The routine also provides a default Component Trace parmlib member defining L1 and C1 as the default Event ID Groups to be traced.
- Tracing can be paused and resumed to allow or disallow tracing internally.

TRACE CT,ON processing can manipulate trace sets while the internal tracing is inactive. The Writer can remain connected while internally the tracing is paused.

- When tracing is deactivated, activated, paused, or resumed, unless other parameters apply, the status of the trace sets is not altered.
- Filtering at capture time is based on Event ID Groups, ASID, and JOBNAME.
CAIRIM Enhancements

PDSE load library support for dynamically loaded routines

The Common Services Resource Initialization Manager (CAIRIM) dynamically adds modules to the Link Pack Area. This enhancement lets these routines be loaded from a PDSE data set.

Improved how CAIRIM locates dynamically loaded routines

The CAIRIM method of locating dynamically loaded routines has been modified to reduce the CPU consumption.

New CAIRIMU utility program parameters

The CAIRIMU TSO utility includes supplemental reporting of LMP statistics and installed product usage and key data. New optional parameters allow selective reporting and the PROD optional parameter can be used to display detailed product licensing information.

Routing console message to SYSPRINT

CAIRIM-generated console messages can be routed to an external data set. Activate this enhancement by including a //SYSPRINT DD statement in the CAIRIM startup JCL. The data set defined by SYSPRINT can be a standard sequential data set or a JES2 SYSOUT data set.

ENF Enhancements

PDSE load library support to the ENF LPA manager

The Event Notification Facility (ENF) component of CCS requires support routines to be dynamically added to the z/OS link pack area (LPA). This enhancement lets these routines be loaded from a PDSE data set.

Improved how ENF locates dynamically loaded routines

The ENF method of locating dynamically loaded routines has been modified to reduce the CPU consumption.

Agent Technology r11.2 with IPv6

Agent Technology Release 11.2 with IPv6 support has been added to CCS Version 12.0. This feature ensures that the z/OS platform remains compatible with CA NSM when new releases of CA NSM are deployed.
CA Health Checker Common Service

The CA Health Checker common service provides a simple and consistent method for CA products to create health checks to run under the IBM Health Checker for z/OS. The IBM Health Checker helps you identify potential problems in your z/OS environment by checking system or product parameters and system status against recommended settings. CA z/OS product health checks are automatically activated on the target system when the product is started on a system where the following components are installed and configured:

- CA Health Checker common service
- IBM Health Checker for z/OS

Serviceability

Serviceability is a new common service that has been added to CCS as a subcomponent of CAIRIM. Serviceability includes the following services for CA products:

- Ensure that messages associated with an error or failure provide clear information for use in the problem determination process.
- Capture the necessary documentation (DUMPS, SYSLOG, LOGREC, TRACE DATA).
- Identify resource ownership using eyecatchers.
- Simplify preventive and corrective maintenance identification.

Improved CAISDI/SOAP Interface

This release offers the following improvements to the Simple Object Access Protocol (CAISDI/SOAP) interface:

- Configuration parameters and commands have been added or updated.
- The SOAP Client allows use of symbolic URLs and for each such URL, allows a separate user ID and password. These symbolic values have been defined in the configuration file.
ENF DCMs Are Now Processed at ENF Startup

With ENF Version 12.0, DCMs are no longer stored in the database. DCMs are now read and processed at ENF startup.

To enable all CAIENF DCM modules for handling events, specify the DCM modules with a DCM statement in the ENF configuration member ENFPARM.

Because ENF now processes DCMs at ENF startup, the CA Datacom/AD database is optional. If the event recording is turned on, the CA Datacom/AD database is required. A new ENF parameter, NODB, is available for starting ENF without the CA Datacom/AD database.

ENF Modified to Use CA Datacom/AD

CA Datacom/AD now ships with CA Common Services. The ENF event recording now uses CA Datacom/AD in place of CA Universe.

The ENFDB DD statement is no longer needed in the ENF JCL.

ENF has been modified to accommodate CA Datacom/AD with the following items:

- CAS9DB functions have been replaced.
- Some control statements have been removed.
- BACKUP is renamed.
- CA Datacom/AD can run in the ENF address space.

CAS9DB Functions Replaced

The ENF CAS9DB utility no longer exists for ENF Version 12.0. All functions of CAS9DB have been replaced with alternate methodologies. The following table shows each CAS9DB control statement and the corresponding methodology in ENF Version 12.0.

<table>
<thead>
<tr>
<th>CAS9DB DBIN Statement</th>
<th>ENF Version 12 Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDU DB(ENFDB) USERID(xxxxxxx)</td>
<td>None. User IDs not required.</td>
</tr>
<tr>
<td>ALTER DB(ENFDB) EVENT(xxxxxxxx) OPT(A,R,P) RETPD(nn)</td>
<td>ENF Parm control statements:</td>
</tr>
<tr>
<td></td>
<td>EVENT(xxxxxxxx,ACT)</td>
</tr>
<tr>
<td></td>
<td>EVENT(xxxxxxxx,REC)</td>
</tr>
<tr>
<td></td>
<td>EVENT(xxxxxxxx,RP=n)</td>
</tr>
<tr>
<td></td>
<td>EVENT(xxxxxxxx,PURGE=Y)</td>
</tr>
</tbody>
</table>
ENF Modified to Use CA Datacom/AD

INST DB(ENFDB) DCM(xxxxxxxx) ENF Parm control statement: DCM(xxxxxxxx) and in ENF Proc: //CAIDCM DD DSN=hlq.CAIDCM,... // DD DSN=hlq.product.illq

INST DB(ENFDB) DCM(xxxxxxxx) REPLACE Use CAS9DCMR utility SYSPUNCH output data set DROP TABLE statements as input to CAIJCL member CASQL004. Run CAIJCL member CADB001 and CASQL004 with ENF down.

LIST DB(*) DETAIL Use the new CAS9DCMR utility for DCM event information. Use the CASQL003 sample job in the CAIJCL data set to obtain recorded event record counts.

QUERY DB(*) SELECT ...... CA Datacom/AD DBSQLPR utility. See CASQL001, 002, 003 CAIJCL data set sample members.

The ENFUTIL utility has been provided to create the DCM and EVENT control option statements that are required to upgrade from CCS Version 11.0. This utility uses a CCS Version 11.0 DB detail listing as input.

### ENF Control Statements Removed

The following ENF control statements have been removed because they pertain to the CA Universe database technology or because they support obsolete functionality:

- BUFFERS
- CFPOLICY
- COLD
- EXTRACT
- EXTROFF
- MAXUSERS
- STRNAME
- XSYSLOGR
- WORKDS

If one of these control statements exists in the ENFPARMS member, a warning message indicates that the statement is ignored and to remove it.
**BACKUP and ARCHIVE**

The ENF control option BACKUP is renamed to ARCHIVE. Currently, BACKUP performs a backup and a purge (remove) operation. ARCHIVE is the industry standard name for this functionality.

If you use the BACKUP control option, the following warning message is issued:

CA recommends you use ARCHIVE rather than BACKUP...
The BACKUP command will be accepted for now, but it may be retired or redefined in future ENF releases.
BACKUP - Command complete

In this release, the ARCHIVE and BACKUP options perform the same function. In a future release, the BACKUP option could change to perform a backup only.

**CA Datacom/AD in ENF Address Space**

If you plan to have ENF record events, a CA Datacom/AD MUF (Multi-User Facility) is required. ENF Version 12.0 provides the option of running this MUF in the ENF address space or running it in an external address space.

The CAIPROC data set delivers the following sample ENF Version 12.0 procs that are partially customized to meet the possible environments:

- **ENF** - If no database is required (NORECORD, NODB in ENF Parms)
- **ENFIMUF** - CA Datacom/AD runs in the ENF address space as a subtask.
- **ENFXMUF** - CA Datacom/AD runs in a separate address space.

**Event Management Modified to Use CA Datacom/AD**

Event Management Calendar and Message Action usage requires the CA Datacom/AD database. The Datacom/TR database is no longer used.

A new environment variable CA_OPR_ZOSDB (defaults to no) now specifies whether the CA Datacom/AD database is used.
ENF/CICS Version 12.0 No Longer Supports Some Releases

ENF/CICS Version 12.0 does not support these CICS releases:

- V1R7
- V2R1
- V3R1
- V3R2
- V3R3
- V4R1

ENF/CICS Version 12.0 does not support these CICS Transaction Server releases:

- V1R1
- V1R2
- V2R1

All newer releases of CICS Transaction Server are supported.

CA Common Services FMIDs No Longer Ship with Version 12.0

The following common services are not part of Version 12.0:

- CAIVPE
- CA Profile
- CA MFLink

CAIVPE (FMID CWU4200 at CCS Version 11.0) now ships with CA Datacom/DB and CA Datacom/AD. This service is part of their product installation.

The CA Examine Common Inventory Service (CAECIS) replaces CA Profile (FMID CPP1000 at CCS r11). From a utility program name standpoint, the CAISERVX utility replaces the CAISERV utility.

CA MFLink is no longer shipped because CA products no longer require it.

Note: CA Service Desk Interface was shipped in CCS Version 11.0 as three separate FMIDs (CSD1000, CSD1001, and CSD1002). In CCS Version 12.0, the three FMIDs have been combined into one SMP FMID (CDYFC00).
Appendix C: Third-Party Software Acknowledgements

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