CA Common Services for z/OS

Release Notes

Version 14.0

CA Product References

This document references the following CA products:

- 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

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Chapter 1: New Features

This section contains the following topics:

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CA OPS/MVS System State Manager (see page 7)
CA Common Services for z/OS Delivered as Four Pax Files (see page 7)
Apache Tomcat Delivered with CA Common Services for z/OS (see page 9)
zIIP Enablement Service (see page 9)

DVD Delivery

This product can be installed from directories on your CA Technologies mainframe product DVD.

Note: For more information, see the *Installation Guide* on the DVD.

CA OPS/MVS System State Manager

CA ENF can automatically communicate both active status events and heart beat events to CA OPS/MVS EMA. The enabling technology for this is through a generic active status or heartbeat event API call that CA OPS/MVS EMA provides to other CA mainframe products so that they can communicate events consistently to CA OPS/MVS EMA.

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

CA Common Services for z/OS is now delivered as four pax files rather than one monolithic file.

The number of common services comprising CA Common Services for z/OS has been steadily growing over time, and managing the bundle of common services as one deliverable has grown to be unwieldy and difficult, both from a CA perspective and from a customer perspective. Some common services are needed at all customer sites, some common services are optional and require some scrutiny as to whether they require installation or not. Some common services have a fairly regular maintenance stream and some legacy common services have very little maintenance. Some common services are ported to z/OS from other platforms and their release schedule is tied to the product release schedule of a distributed platform product.

To manage different common services independently, the following four pax file common service bundles have been created for Version 14.0:

Base (Required) Common Services

CAIRIM, CAIENF, CAICCI, CAECIS, CA Health Checker, CA Master, CA MSM

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 will be installed into their own Low Level Qualifier target libraries since these two bundles will receive upgrade activity at a slower pace than the Required or Optional Common Services. Optionally you may also assign a different High Level Qualifier to the Legacy and Mainframe CA NSM Common Services. This will allow for upgrading the Required Common Services and the Optional Common Services but leave the Legacy Common Services and Mainframe CA NSM Common Services at their existing software level.

The next release of CA Common Services for z/OS beyond Version 14.0 will not include the Legacy and MFNSM pax files. Customers will simply continue to use their installed Version 14.0 Legacy and MFNSM installed and deployed data sets. You may notice that the CA Common Services for z/OS Version14.0 non-MSM installation has separate jobs for handling the Legacy and MFNSM data set allocations and DDDEFs for this reason.

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 will have the same release schedule as the base for at least another release of CA Common Services for z/OS.
- The Optional Common Services target libraries overlap almost completely with the Base Common Services target set of libraries.

Apache Tomcat Delivered with CA Common Services for z/OS

A number of CA products either require or optionally need Apache Tomcat to be their Web Application Server. Many products have been separately delivering Tomcat with their product installations. Tomcat makes it possible to share the binary executables and still run separate instances of Tomcat as needed. With CA Common Services for z/OS Version 14.0, you can now install Tomcat as part of the Optional Common Services.

Over time CA products that use Tomcat, will stop delivering Tomcat and instead these products will supply a procedure for creating an instance of Tomcat for product usage where the binaries are executed from the deployed Common Services Tomcat directories. This will allow for Tomcat maintenance to be applied using one CA Common Services PTF rather than several individual product Tomcat PTFs, all utilizing different FMIDs.

For the near future, the intent is not to run multiple products within one Tomcat instance. In the long term however, once the switch to a CA Common Services based Tomcat has been achieved, it is CA Technologies' intention to determine what CA products can feasibly run in the same Tomcat instance.

zIIP Enablement Service

CA Common Services for z/OS Version 14.0 includes a new subcomponent of the CAIRIM common service named the zIIP Enablement Service. The zIIP Enablement Service can be exploited by some CA products, given the right circumstances, to run some of their code on zIIP processors.

Chapter 2: Enhancements to Existing Features

This section contains the following topics:

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LMP Key

Dynamic LMP key removal from a system is now provided. Some modern data centers may not IPL some systems for long periods of time and with this feature an LMP key can be removed on a system without an IPL. This feature can be useful if it is decided that a particular system will no longer be running a particular CA product. With the LMP key removed, if the product was unknowingly still being used then LMP key warning messages would begin. This could help a site learn that either the product was still required on a particular system or that there are users who have not been informed that product usage needs to be discontinued.

CAIENF Event Maximum Record Length Increased

CAIENF Version 14.0 increases the maximum event record length from 255 to 10,000. Previously, while there was some provision within ENF for events that had lengths greater than 255, such events could not be recorded to the ENF database. With ENF Version 14.0, CA products can define events, with ENF DCM modules, that are up to 10,000 bytes in length and be able to 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 to be implemented in CAIENF r12.0. Many additional ENF commands now support the full response of a command being directed to the EMCS console that the command was issued on. For example, if the ENF STATUS command is issued under SDSF, the response will be returned to the user without having to scroll to the bottom of the SYSLOG display looking for the response.

CAIENF SCREEN and SELECT Parameter Logical AND Capability

Prior to ENF Version 14.0, only logical OR could be achieved with ENF SCREEN and SELECT parameters. CAIENF Version 14.0 provides a new syntax on ENF SCREEN and SELECT parameters that permits a logical AND as well as a logical OR of specified SCREEN conditions and SELECT conditions. For details, see the *CA Common Services for z/OS Reference Guide*, CAIENF Control Options chapter.

CAIENF/SNMP SNMPv3 Support

CAIENF/SNMP Version 14.0 provides support for sending 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 are the only allowed combinations defined by the SNMPv3 protocol.

CAIENF/DB2 DB2 v10.1 Support

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

CA Health Checker Common Service r12.1 Incorporated

CA Health Checker Service r12.1 and CAMASTER are now included within the Base Common Services at the Version 14.0 level.

CAIENF/USS Performance Improvements

Performance improvements are made in CAIENF/USS Version 14.0 that greatly improve internal control block handling for USS applications that do a considerable amount of DUBing and UNDUBing. These improvements will 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 helps to better isolate operating system and non-operating system resources.

Important! Having the CAMASTER address space up and running is now a requirement for running 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(LNKLSTxx)' or 'SYS1.PARMLIB(PROGxx)'.

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, which causes an S222 abend. Some sites may have automation software that gets tripped for any abend condition in an important address space and it is possible that special provisions have to be made for S222 abends. Eliminating the S222 abend will avoid having to make any special automation arrangements. In general associated joblogs and syslog entries will be 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, has been enhanced to support the higher level CA Service Desk WSDL, the r11 level WSDL. Prior to CAISDI/Soap Version 14.0, the CA Service Desk r6 level WSDL had to be used for mainframe product interfacing. CA Service Desk has thus been shipping two levels of the WSDL. CA Service Desk has the ability to run the r11 level WSDL and the r6 level WSDL at the same time by assigning a different URL to each. This enhancement will allow the CA Service Desk product team to remove the older r6 level WSDL from their product delivery.

CAISDI/Soap Version 14 now uses the IBM XML parser for flexibility so that changes in XML standards will not necessarily require changes to the CAISDI/Soap product.

CAISDI/Soap Version 14.0 has also been enhanced so that it will handle all the XML processing within the CAISDI/Soap address space. CAISDI/els and CAISDI/med have been updated so that they no longer need to perform XML processing themselves. This gives CAISDI/els and CAISDI/med support for the CA Service Desk r11 level WSDL too.

CAISDI/Soap Version 14.0 delivers a new started task proc in the CAW0PROC dataset named CASOAPE. CASOAPE is used for communicating with a CA Service Desk that runs the r11 level WSDL. The original proc named CASOAP is also still delivered for communicating with a CA Service Desk platform that runs the r6 level WSDL. As a result you may be able to discontinue running the r6 level WSDL on your CA Service Desk platform and only run the r11 level WSDL depending on your CA product mix. There may be a need to run both CASOAP and CASOAPE at the same time.

CAISDI/Soap Base Support for Closing and Updating CA Service Desk Tickets

CAISDI/Soap Version 14.0 delivers support for exploiting the CA Service Desk Web Service methods of Closing or Updating currently open CA Service Desk tickets. This new support is at the CA Soap base level, which allows some CA products that use the base CAISDI SOAP API to enhance their products to provide, close, and update CA Service Desk ticket support. CA network management products fall into this category.

CAISDI/els and CAISDI/med will be enhanced in a future release of CA Common Services and at that time CA products that exploit the CAISDI/els or CAISDI/med APIs will then also be in a position to take advantage of this enhancement to CAISDI/Soap.

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

- 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 yet, then the CASOAP proc must continue to be used communicating with a CA Service Desk running the r6 level WSDL. If CAISDI/els or CAISDI/med products are in use on the same system then CASOAPE should also be started.

The following CA Products use the CAISDI/Soap base API and therefore require the running of the CASOAP proc until such time that these products deliver enhancements that will allow them to run with the CASOAPE proc and possibly 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

The names of most data sets have changed. You should review the following table to determine the impact this may have to your installation:

Original Name	New Name	Description
CAILOAD	CAW0LOAD CAW0LINK CCCSLOAD CCCSLINK CNSMLOAD	CiiiLOAD are executable load libraries that can either be in the linklist or STEPLIBed to. CiiiLINK are executable load libraries that must be in the linklist.
CAISRC	CAW0SRC CCCSSRC	Source Code
CAIPROC	CAW0PROC CCCPROC	Sample Procs
CAIOPTN	CAW0OPTN CCCOPTN	Sample Parameters

Original Name	New Name	Description
CAIMAC	CAW0MAC CCCMAC	Sample Macros
CAIDCM	CAW0DCM	ENF DCMs
CAIPLD	CAW0PLD	Executables Load Library that must be in a PDSE. Library can be link listed
CAIJCL	CAW0JCL CCCSJCL CNSMJCL	Sample Batch Job JCL
CAIOPTV	CAW0OPTV	Sample parameter files or USS environment variable files that require variable record length
CAISCRN	CAW0SCRN	3270 panels
CAILPA	CAW0LPA	Executables Load Library that must be the LPA list
CAISAMP	CAW0SAMP	Sample Source Code

Common Services that are included in the Base Common Services bundle or the Optional Common Services bundle will be installed into target data sets that have a low-level qualifier of the form CAW0xxxx.

Common Services that are included with the Legacy Common Services bundle will be installed into target data sets that have a low-level qualifier of the form CCCSxxxx.

Common Services that are included with the Mainframe CA NSM Common Services bundle will be installed into target data sets that have a low-level qualifier of the form CNSMxxxx.

Note: For CA Common Services for z/OS Version 14.0, the traditional load library, in the past named CAILIB or CAILOAD, has been split into datasets whose low-level qualifiers indicate whether the load library is required to be in the system linklist or whether it can optionally be added to the system linklist. Data sets with a low-level qualifier of the form CiiiLINK must be placed in the system linklist. Data sets with a low-level qualifier of the form CiiiLOAD can optionally be placed in the system linklist. CiiiLOAD data sets, if not placed in the system linklist, must be STEPLIBed to in JCL that requires load modules from the CiiiLOAD data sets. Due to the nature of CA Common Services, we recommend that CiiiLOAD data sets also be placed in the system linklist so that the need for STEPLIBs is eliminated.

Changes to CAICCI Protocols

Prior to 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 being delivered. The SSL capable protocol code has shown itself to be robust, production capable, and well performing, and that has made it possible to run only the SSL capable protocols, TCPSSL and TCPSSLGW. It should also be noted that the TCPSSL and TCPSSLGW protocols support TCPIPv6, whereas the older TCPIP and TCPIPGW protocols do not.

So that CCIPARMs that specify protocols TCPIP or TCPIPGW do not immediately need an update to specify TCPSSL or TCPSSLGW, the CCITCP proc will be delivered in the CAW0PROC data set pre-customized with JCL that executes the SSL capable program but setup to run in non-SSL mode. Similarly, the CCITCPGW proc JCL will be delivered in the CAW0PROC data set pre-customized 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 utilizing the TCPSSL protocol, formally the TCPIP protocol (see above). CCIPC is now available with 64-bit addressing and 32-bit addressing. The CCIPC 32-bit addressing self-extracting executable is named CCIPCS32 and the 64-bit addressing self-extracting executable is named CCIPCS64. Both are now Install-Shield based and they can be installed onto the same PC if that PC is running a 64-bit version of Windows. 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 now supported in PKCS#12 format and both user and CA certificates can be stored and accessed from the Windows Certificate Store.

Changes to Supported Versions of CICS

CAIENF/CICS Version 14.0 supports CICS Transaction Service v3.1 and above and discontinues support for CICS Transaction Server v1.3, v2.2, and v2.3 that existed in CAIENF/CICS r12.0.

Changes to Installation Methods

The ISPF dialog based “Simplified Install” that was introduced with CA Common Services r12.0 has been discontinued with CA Common Services Version 14.0. Now that CA MSM is the preferred automated tool for installing CA software there is no benefit in continuing to have the ISPF-based install option.

Component Trace Improvements

Component Trace support has been added for CAICCI.

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

For more information, see the CAICCI Component Trace chapter in the *Reference Guide.*

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.

CA Common Services for z/OS r12.0, with properly applied maintenance for r12.0 ENF and CAICCI components, supports up to 128 CPUs per LPAR.

With CA Common Services for z/OS Version 14.0, the number of CPUs supported is unlimited. This enhancement puts CA Common Services for z/OS Version 14.0 in a better position for growth moving into the future. The enhancement also frees up a small amount of real storage that was needed to handle each 16 CPU increment.

Installation Guide

The *Installation Guide* has been restructured and describes the following methods of installing CA ENF:

- CA MSM
- Pax-Enhanced Electronic Software Delivery (ESD)
- DVD