

CA Workload Automation CA 7® Edition

Release Notes
Version 12.0.00



Second Edition

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CA Technologies Product References

This document references the following CA Technologies products:

- CA Workload Automation CA 7® Edition, (CA WA CA 7 Edition), formerly CA Workload Automation SE and CA 7® Workload Automation
- CA 7® Web Client
- CA Chorus™ Software Manager (CA CSM)
- CA Chorus™
- CA Mainframe Software Manager™ (CA MSM)
- CA Workload Automation Restart Option for z/OS Schedulers (CA WA Restart Option), formerly CA 11™ Workload Automation Restart and Tracking (CA 11)

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Documentation Changes

The following documentation update has been made since the last release of this documentation:

- [CA Datacom/AD for CA 7](#) (see page 9)—This new chapter consolidates important information about using CA Datacom/AD with CA 7.
- [Current Release Verification for Online User Exits](#) (see page 23)—This topic is changed.

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Chapter 1: CA Datacom/AD for CA 7

CA 7 Version 12.0 uses CA Datacom/AD to store and access information. The information was previously stored in data sets that VSAM and the CA 7 queue access method managed. The migration process to CA 7 Version 12.0 includes these tasks:

- Configuring CA Datacom/AD for the CA 7 database
- Converting data that previously resided in VSAM and queue data sets to a CA Datacom/AD database
- Establishing procedures to manage the database

These topics provide an overview of new terms, concepts, and procedures that are introduced with the use of CA Datacom/AD. The following topics are discussed:

- CA Datacom/AD Components
- Convert the Database
- Database Sizing
- Manage the CA Datacom/AD Database
- Access the CA Datacom/AD Database
- SQL Plans

Reading this introductory information is helpful before starting the migration process. When you want to plan your migration to CA 7 Version 12.0, you can find more information about the migration process in:

- How to Configure CA Datacom/AD for Use with CA WA CA 7 Edition (*Installation Guide*)
- Database Conversion (*Installation Guide*)
- CA Datacom/AD Database Backup, Recovery, and Tuning (*Systems Programming Guide*)

CA Datacom/AD Components

Two components are essential to understanding the CA Datacom/AD changes:

Multi-User Facility

The CA Datacom Multi-User Facility (MUF) provides access to the CA 7 database. The MUF, which executes in an address space separate from CA 7, determines how to process requests for database access. The MUF also coordinates the activities that must take place to service any requests.

Databases

CA 7 data is loaded into a set of tables that comprise the CA 7 database. Tables have defined columns (fields) and can have relationships to other tables. Tables are physically stored in *data areas* (data sets). You also allocate the data area data sets.

During configuration of CA Datacom/AD for use by CA 7, you use supplied table descriptions to define the CA 7 table structures to CA Datacom/AD.

A database ID (DBID) identifies databases for different applications within a single MUF. For example, the databases for CA 11 and CA 7 can reside in the same MUF but have different DBIDs. The CA 7 database is defined as DBID 770.

You have only one CA 7 database (DBID 770) per MUF. However, CA 7 uses a logical database concept. This concept lets data for multiple CA 7 instances reside in a single MUF. If databases for multiple instances are stored in a single MUF, all instances are part of DBID 770. The instances are differentiated from each other by a *logical database name*. The logical database name is part of the key of each table.

Convert the Database

After the CA 7 database structure is defined to CA Datacom/AD, you load data into the tables. Usually, the loading involves converting data from a previous release.

Preconversion

Based on the CA 7 table definitions, CA Datacom/AD enforces the validity of data in certain columns and relationships between certain tables. These restrictions theoretically existed in databases before Version 12.0, but the file structures did not enforce them. In preparation for converting a database to CA Datacom/AD, you use two utilities:

- The r11.3 Database Verification (DBVR) utility
- The Version 12.0 Preconversion Data Validation utility

They examine VSAM files and queues and identify any cleanup needed in the r11.3 files before conversion.

Conversion

The conversion process is then executed against *clean* r11.3 files. The conversion process includes these steps:

- Converting the r11.3 files into CA Datacom/AD format (export file)
- Loading the export file into the CA 7 tables that were previously defined to CA Datacom/AD
- Validating that the Version 12.0 database is functionally equivalent to the original r11.3 database and queues

Database Sizing

The data area data sets are where the CA 7 tables physically reside. When initially configuring CA Datacom/AD for DBID 770, the data area data sets are allocated using default space allocations. The default space allocations are not always adequate for every system, and your system can require adjustments.

After you have executed the conversion program and created an export file, you can use the space estimator utility. The space estimator uses your export file to estimate initial space allocations for the CA 7 data areas. You can then adjust the allocations for the CA 7 data areas before loading your converted data into the CA 7 database.

Multiple CA 7 Instances in a Single MUF

Some users want to put multiple CA 7 instances in the same MUF. If you do, make the space allocations for the CA Datacom/AD data areas reflect this requirement. You can handle this requirement in several ways:

- Create export files for all instances and concatenate them when running the space estimator.

Note: You can create an export file for an instance that is already running CA 7 Version 12.0. Use the Database Export Import utility. See CAL2DBEI Utility in the *Systems Programming Guide*.

- If the allocations for the first instance are adequate, you can manually adjust the allocations based on the relative size of subsequent instances. Adjust them to the size of the first instance.

Dynamic Extend

The database is defined using the Dynamic Extend feature. This feature causes the index and data areas to extend up to 15 times per volume automatically. They extend when the allocated space is exhausted. When data areas are defined into a DFSMS storage group, the extents can be to any volume in that group.

Data Areas

The following table shows how r11.3 files map to Version 12.0 CA Datacom/AD Data Areas.

r11.3 Files	Version 12.0 CA Datacom/AD Data Areas
SASJOB	JOB770
SASJOB, SASDS, IDS	DFS770
ARF	DFS770
VRM	DFS770
PRNQUE	HL770 (Prior Run)
PRNQUE and TRLQUE	HIS770 (Run Log)
REQQUE, RDYQUE, ACTQUE, VRM	AWH770
TRLQUE	AWL770 (Queue JCL)
TRLQUE, PREQUE, VRM	AWS770 (Rqmts, VRM, #SCC, ARF, Networks)

Manage the CA Datacom/AD Database

The methods to back up and recover the database in CA 7 Version 12.0 are different from the methods of previous releases. Studying the Backup and Recovery Considerations chapter in the *Systems Programming Guide* is critical to determining what type of backup and recovery processes meet your needs.

One major difference that is highlighted here is the creation of recovery files. Automating the creation of recovery files is an important part of managing your Version 12.0 database. CA Datacom/AD records information about table updates in its Log Area (LXX). The LXX is a fixed-sized file that is written to in a wrap-around fashion.

When all the table updates in an LXX block are committed, the block becomes *spillable*. Spillable means that the block is no longer needed for the transaction backout and can be written to the recovery file (RXX). After an LXX block has been spilled, it can be overwritten with new log data.

During the CA 7 installation, the LOGRCV setting is set to LOGRCV NO. This setting means that no dedicated tape drive is reserved for CA Datacom/AD to use for automatically spilling blocks from the Log Area (LXX) to the recovery file (RXX). Instead, a SPILL job must be periodically run. The job writes spillable LXX blocks to the recovery file and makes the spilled LXX blocks eligible for reuse. This process is known as inactive recovery.

Warning! You must spill the LXX often enough to ensure that space is always available to record new update information. If the LXX becomes full, all CA 7 activity stops until you run a SPILL job to free up blocks for reuse.

Note: For more information about spilling, see the Logging section in the Backup and Recovery Considerations chapter in the *Systems Programming Guide*.

Access the Database

The following items determine the database that a CA 7 instance accesses:

- The CA Datacom/AD CUSLIB specified on the STEPLIB DD statement determines which MUF is accessed
- The DBPARMS parameter file determines which logical database within the MUF is accessed

Chapter 2: New Features

This section contains the following topics:

- [New Database Structure Using CA Datacom/AD](#) (see page 15)
- [Current Release Verification for Online User Exits](#) (see page 23)
- [zIIP Processing](#) (see page 23)
- [64-Bit Memory](#) (see page 24)
- [Long Job Names](#) (see page 25)
- [New Agent Type](#) (see page 26)
- [Job Number Capacity Messages](#) (see page 27)
- [Enhanced Submission Selection](#) (see page 27)
- [/CHGOPT Command](#) (see page 28)
- [New Startup Type - CKPT](#) (see page 28)

New Database Structure Using CA Datacom/AD

In this version, tables in a CA Datacom/AD database replace the VSAM database (SASJOB, SASDS, IDS, ARF, and VRM) and the status queue data sets. This CA Datacom/AD database that replaces these files is defined, allocated, and initialized in the steps after the CA Datacom/AD installation but before the CA WA CA 7 Edition installation SYSGEN process.

Moving to the relational CA Datacom/AD database provides several advantages over the previous structures:

- Backup while open (24 hours a day, 7 days a week up time).
- Built-in logging and audit capabilities.
- Inherited compatibility with new storage device types.
- Built-in growth and scalability.
- SQL reporting facilities.

With this version, a single CA Datacom/AD MUF can contain more than one CA 7 instance database. For example, you can execute instances CA71, CA72, and CA73 all in the same LPAR or sysplex. All three instances can use the same CA Datacom/AD MUF for their copy of the database. They are distinguished from one another by a *logical database name*. Carefully consider the naming of the logical database, as multiple databases can occur in one MUF. Also, workload moves from one system to another. In this case, a logical database name of CA71 can present a conflict when moving to another MUF that already has a logical database name of CA71. The logical database name can contain up to 16 characters. We recommend that the name indicates the type of system the instance represents, such as DEVELOPMENT or INTERNALSYSTEMS.

The logical database name for a CA WA CA 7 Edition system is specified using the DBNAME keyword on the U7PARMS initialization file statement in the SYSGEN process. The logical database name is also found in the DBPARMS file where the “ALLVSAM” data sets were previously defined.

As a result, with this version, review all jobs using CA WA CA 7 Edition utilities, procedures, user modifications such as tables and exits, and other items relating to CA WA CA 7 Edition. Many items require only updating the STEPLIB (if CA WA CA 7 Edition modules are not in the linklist). If you have tables and user exits, reassemble them using the Version 12.0 libraries. CA WA CA 7 Edition can now detect whether the tables or exits were assembled using the current release.

Note: For more information about the installation and conversion, see the *Installation Guide*.

Many changes in this version result from using CA Datacom/AD. Read through this entire guide. The significant changes are mentioned here in this section, but other changes are mentioned in the next chapter.

Note: For more information about the exits and backup and recovery, see the *Systems Programming Guide*.

Initialization File Changes

The initialization file has several changes with this version. Several statements are removed, while new keywords are added to existing statements. We recommend that you make a copy of the current initialization file and modify it for Version 12.0.

Important! Save a copy of the current r11.3 initialization file in case you must revert (fall back) to the r11.3 release.

Changes in the initialization file include the following items:

- The removal of the FORMAT statements for queues because queues are part of the CA Datacom/AD database.
- The DAIO statement is modified to remove the SWFTRK/SCRTRK keywords. These keywords specified the maximum number of tracks to assign to each scratch work file. The scratch work file space is now kept in 64-bit virtual storage.
- The OPTIONS statement adds the SUBSEL keyword to denote the method for which the next job is selected for submission.
- On the OPTIONS statement, the SHUTDOWN keyword ignores the obsolete DMPQ value.
- The INIT statement changes the TYPE=MOVQ, which defaults to TYPE=ERST unless overridden on the JCL execution parameter.

Note: For more information, see the *Systems Programming Guide*.

DMPQ Shutdown and MOVQ Startup Options

In this version, tables in the CA Datacom/AD database replace the queue data sets. Now, when the database is backed up or the database is restored, the queues are included. The product no longer has a separate process to dump or load the queues during a shutdown or a startup. With the DMPQ and MOVQ removal, user exits SASSXXQB and SASSXXQD are removed.

The shutdown options that previously requested queue backup, Z4, Z5, and DMPQ, are obsolete in this version. The /SHUTDOWN command continues to accept these options but substitutes the equivalent non-DMPQ option for processing.

Requested Option	Substituted Option
Z4	Z1
Z5	Z3
DMPQ	None

To avoid a substitution and the SCM2-31 message, modify the following items:

- Operator and automated procedures to discontinue use of any DMPQ-type shutdown options
- The SHUTDOWN keyword on the OPTIONS statement in the initialization file to discontinue use of any DMPQ-type shutdown options

The MOVQ restart type is also obsolete in this release. The CA 7 Online JCL execution TYPE= parameter, the TYPE keyword on the INIT statement in the initialization file, or both are sometimes specified with MOVQ.

The following types are valid for startup:

FORM

Resets all queues, including prior-run.

COLD

Resets all queues, but keeps prior-run.

WARM

Keeps all queues and messages.

ERST

Keeps all queues but deletes messages.

CKPT

Keeps all queues but reinitializes checkpoint file (a [new startup type](#) (see page 28)).

Other specialized startup types include EDIT and DORM.

Note: For more information about the startup types, see the *Systems Programming Guide*.

When the TYPE keyword on the INIT statement specifies MOVQ, the following WTO is written to the JES job log during startup:

CA-7.593 TYPE=MOVQ obsolete

When MOVQ is specified in the CA 7 online JCL parameter, an ERST startup is done. The following WTO is issued to the JES job log:

CA-7.952 TYPE=MOVQ obsolete – TYPE=ERST will be used

The INIT statement requires the TYPE= keyword or a U0910 abend occurs.

The following table shows what you can expect at startup when MOVQ is specified in either location.

MOVQ specified on TYPE keyword (INIT statement)	MOVQ restart type specified in JCL	WTO issued	Type of Restart
Yes	No	CA-7.593	TYPE specified in JCL

MOVQ specified on TYPE keyword (INIT statement)	MOVQ restart type specified in JCL	WTO issued	Type of Restart
Yes	Yes or no TYPE specified in JCL	CA-7.593 CA-7.952	ERST
Any value except MOVQ	Yes	CA-7.952	ERST

This version does not provide functions that the DMPQ/MOVQ user exits (SASSXXQD and SASSXXQB) previously performed. If the user exit was simply capturing queue records, it is sometimes possible to implement similar functionality using CA Datacom/AD utilities, SQL, or both.

Note: For more information about restart types, see the *Systems Programming Guide*.

Status Queues

CA Datacom/AD tables have replaced the status queue data sets. The queue in-core tables are restructured to reflect the change to CA Datacom/AD and are now allocated in 64-bit memory. The in-core table for the prior run queue is eliminated and exists in CA Datacom/AD tables only. All other header and trailer data is now required to reside in in-core tables. Some data that was previously stored in a trailer record is now stored in the CA Datacom/AD queue header table and related in-core table.

The following CA Datacom/AD and in-core tables are defined for queue processing:

Queue Header Table (QHT)

- CA Datacom/AD table name is CA7_QUEUE
- REQ, RDY, ACT data all in one table
- Contains former header data
- Contains some former trailer data
 - Security
 - ARF
 - XPS cross platform
 - CA 11
 - XPJOB, sub types 1 and 2 only. Does not contain AJB data.
 - Agent
 - Long job name

Status Queue Table (SQT)

- No related CA Datacom/AD table
- Separate SQT for each queue PRE, REQ, RDY, ACT, and PST

Network headers

- CA Datacom/AD table name is CA7_CA7_PRE_POST
- PRE and PST data all in one table

JCL and PARMLIB statements

CA Datacom/AD table name is CA7_ACT_JCL

Network reminder text

CA Datacom/AD table name is CA7_ACT_NW_TEXT

Input requirements

- CA Datacom/AD table name is CA7_ACT_RQMTS

Output trailers

- CA Datacom/AD table name is CA7_ACT_OUTPUTS

#SCC input

CA Datacom/AD table name is CA7_ACT_SCCI

#SCC output

- CA Datacom/AD table name is CA7_ACT_SCCO

Load data

- CA Datacom/AD table name is CA7_ACT_LOAD

Removal of Selected Data Set Numbers (DSNBRs)

Data set numbers, DSNBRs, are used to index selected elements in CA WA CA 7 Edition. With this version, the data set numbers for networks and schedules are removed, leaving only data set and prose DSNBRs. Thus, any DSNBR beginning with NW (network), SI (input network schedule), SJ (job schedule), and SO (output network schedule) are not used or displayed. This change has command and data output implications as follows:

Commands

- For the networks, the LNTWK,DSNBR= is removed because networks have no DSNBR. Use LNTWK, NW=xxx or LNTWK,DSN=NW.xxx instead. xxx represents the network name.
- Also, the LCTLG,DSN=NW. is removed. Use the LNTWK,DSN=NW. instead to display the stations that are associated with a network. Use the SQL sample member AL2NWO to list the last three executions of a network.

Note: For more information, see the *Report Reference Guide*.

- Before this release, the LCTLG,DSN=AUTO.NWnnnnnn command listed information about jobs that networks trigger. nnnnnn was a network number. The new format of the DSN keyword for networks is DSN=AUTO.NW.networkname.
- For the schedules, the LSCHD,DSNBR= is removed. Also, LSCHD,STN=station is removed.
- Network DSNBRs are removed from select panels. All references are by network name.

Note: For more information, see the *Command Reference Guide*.

Screens

- Some screens displayed a schedule number. Now the screen displays one of the following terms:
 - YES when the job or network is scheduled.
 - NO when the job or network is not scheduled.

Note: For more information, see the *Database Maintenance Guide*.

More information:

[Command Changes](#) (see page 48)

[Screen Changes](#) (see page 44)

Utilities

This version includes several new utilities and some changed utilities. The new utilities deal with the CA Datacom/AD environment specifically. The following list highlights the new utilities:

Conversion Utility, CAL2DCV1

Takes the r11.3 database and queue backup files and creates an export file suitable for importing into the CA Datacom/AD environment.

Reversion Utility, CAL2DCV2

Takes the logical database from the CA Datacom/AD environment and creates the backup files suitable for restoring the CA Workload Automation SE r11.3 environment.

Space Calculation Utility, CAL2DCVS

Takes an exported file and approximates the space that is required in the CA Datacom/AD environment. The utility also builds JCL statements for CA Datacom/AD.

Export/Import Utility, CAL2DBEI

Exports a copy of the logical database and imports an exported file in the CA Datacom/AD environment. The utility also can delete a logical database name from a CA Datacom/AD MUF.

Database Verification, CAL2DBVR

Replaces the old Database Verification utility UCC7DBVR. This new utility validates the structure between the various CA Datacom/AD tables.

Database Reporting

In this release, the database reports are no longer generated using SASSBK00 or SASSBK00 backup data. These reports include SASSXREF-01, SASSXREF-02, SASSXREF-03, and CA7xx701 – 711 (xx = ER for CA Earl reports, EZ for CA Easytrieve reports).

Executing SQL against the database can generate similar reports. Sample SQL to produce similar reports are provided in a new SMP/E controlled library, CAL2SQL. The JCL to use these SQL samples is located in CAL2JCL member AL2SQL. You can also generate customized reports using the SQL samples as models. The description of the tables and columns on those tables is found in CAL2OPTN member AL2SQLD (SQL descriptions).

Note: For more information, see the *Report Reference Guide*.

Current Release Verification for Online User Exits

With this release, the online user exit modules are validated at startup to ensure that they are assembled with the current version of the CA 7 macros. The exit verification scans the loaded module for the exit name followed by the release number in the format Rvv.n. For this release, that release number is R12.0. If this 13-byte value is not found within the first 256 bytes of the load module, the user exit is “disabled” and is not called. This situation could lead to unpredictable results in your installation.

Note: You can use SASSVRSN to generate the required 13-byte value.

The reason for the verification check is because the “legacy” records of CA 7 r11.3 have changed format, with the expansion of the schedule, user, and JCL index numbers (SCHID, UID, JCLID). Thus, the record formats under r11.3, if used, would result in the use of bad data in your exit.

To continue using the exits, ensure that you have accounted for the expanded ID fields. Assemble the exits using the CA WA CA 7 Edition Version 12.0 CAL2MAC library. Ensure that the exit contains the 8-byte exit name immediately followed by R12.0.

zIIP Processing

In z/OS environments, you can use the z/Architecture Integrated Information Processor (zIIP) to offload processing cycles from the main CP processors. This processing lets other work execute on the main CP processors while CA WA CA 7 Edition code executes on the zIIP processor. Although some overhead is involved in setting up to use zIIP processors, moving CA WA CA 7 Edition processing to zIIP typically decreases overall costs. The following subtasks are zIIP-enabled:

- Submission output processors for CPU jobs, XPJOB jobs, and agent jobs
- Agent job feedback processor
- XCF processor

The initialization file contains a new keyword in the INIT initialization statement: ZIIP={NO|YES}. Unless you modify the initialization file, no processing in the CA WA CA 7 Edition address space executes on a zIIP processor. If you specify INIT,ZIIP=YES, CA WA CA 7 Edition checks to see whether a zIIP processor is enabled for this LPAR. If a zIIP processor is available, CA WA CA 7 Edition uses the zIIP Enablement Service feature in CA Common Services r14.0 or above to let selected subtasks execute on a zIIP processor. If not, a warning message is issued, and all processing and execution continue on the main CP processors.

You can use the /DISPLAY,PERF=ZIIP to display the zIIP processing performance.

Note: For more information about the ZIIP parameter, see the *Systems Programming Guide*.

64-Bit Memory

CA WA CA 7 Edition now allocates and manages 64-bit memory for use by its applications. Queue processing is the main user of this service as all of its in-core tables are now in 64-bit storage. The scratch work files are also now kept in 64-bit storage. The following pools are defined:

Queue Header Table (QHT)

- One entry for each CA 7 job number.
- Queue header data and some trailer data for active jobs.

Status Queue Table (SQT)

- One table per status queue (PRE, REQ, RDY, ACT, and PST).
- One entry per job in the related queue.

General pool

- Default size can be specified in the new optional INIT file statement `RESIDENT,G64PL=size` in MBs. The default is 15360, which is 15-GB.
- Used for scratch work files.

JCL pool

- JCL, cross platform PARMLIB data, and network reminder text for active jobs and networks.

Miscellaneous pool

- Input requirements, output trailers, #SCC input data, # SCC output data, load data, and network headers for active jobs.

Long Job Names

In this release, jobs can now have both a regular job name and an optional long job name alias. The long job name can contain up to 64 characters. This change assists with the conversion from distributed systems. This long job name is available in many of the commands and input screens instead of the regular job name. The commands and screens use the new JOBL keyword or JOBL field. Jobflow Illustrator includes the new JOBL and JOBFILTRL parameters and supports long job names.

Note: For more information about Jobflow Illustrator, see the *Interface Reference Guide*.

The jobs that are converted from the distributed platforms have the same properties as agent jobs. Jobs with long job names that are created within CA WA CA 7 Edition maintain their normal properties.

Note: For more information about long job names, see the *Database Maintenance Guide*.

More information:

[Long Job Name Changes](#) (see page 48)

New Screens

Several new alternate screens are available for use with the new long job names.

The alternate screens are named similarly to the normal job screens followed by an L. For example, DB.2.4L or SCHED,JTRGL is the job triggering screen. DB.3.2L or JOBCONN,JOBL is the job predecessor screen.

For both the original and new user requirement screens, the requirement text can now be mixed case. Previously the text was forced to uppercase.

Note: For more information about the alternate screens, see the *Database Maintenance Guide*.

New Variables

The long job names enhancement includes the following new variables:

&JOB

This variable works for the following:

- The ARF message variable, which displays the long job name for a job.
- The CA Service Desk event variable for a long job name.
- The email template variable for a long job name.

7JOB

The global variables (GVAR) reserved variable. The variable is prefixed with the settings specified in the GVAR options on the OPTIONS initialization file statement.

Note: For more information about these variables, see the *Interface Reference Guide*.

New Agent Type

CA WA CA 7 Edition supports the CA Workload Automation Agent for Remote Execution r11.3. This job type is named PROXY_JOB and is targeted for execution on a UNIX or HP Integrity NonStop (Tandem) system through the CA WA Remote Execution Agent. Option P is added to the CA 7 Database A menu for this job type.

Note: For more information about this new agent type, see the *CA Integrated Agent Services User Guide*.

We recommend that you set up an agent job class and possibly a job class map for Remote Execution jobs (Verb: RUN, SubVerb: PROXY) in the agentparm.txt file. In the file, set the number of initiators to match the proxy.maxSubmitConnections value (default value is four). This setting causes the waiting jobs to have an agent status of "Waiting for Initiator." Without the agent job class, the waiting jobs appear to hang in the ready queue.

Note: For more information, see the *CA Workload Automation Agent for Remote Execution Implementation Guide* and the *CA Workload Automation Agent for UNIX, Linux, or Windows Implementation Guide*.

Job Number Capacity Messages

This release includes new WTOs that are issued when 80, 90, and 100 percent of available job numbers are assigned. The SCHEDULE initialization keyword HIJBNUM determines the total number of available jobs. Only one of these WTOs is seen at a time, but it is highlighted and nonscrollable. As each new threshold is reached, a new WTO replaces the previous WTO. We recommend that these messages be automated for alerts by the installation automation package.

CAL2A101W ** WARNING ** [80/90]% of CA 7 Job Numbers in use ([Rising/Declining])

CAL2A102E ** WARNING ** 100% of CA 7 Job Numbers in use. No new jobs can enter the system ** WARNING **

As job numbers are released, the WTOs are also updated as the percentage decrements, until it reaches 70 percent. At 70 percent, a general WTO is issued.

CAL2A103I ** CA 7 Job Number Shortage Relieved **

During an initialization, an informational WTO is issued displaying the current percentage of job numbers in use.

CAL2A106I Percent of CA 7 Job Numbers in use: xxx.xx%

Note: For more information, see the *Message Reference Guide*.

Enhanced Submission Selection

A new initialization option is available for submission selection (choosing which job gets submitted next).

The enhanced submission selection feature can reduce the overall CPU usage while letting CA WA CA 7 Edition process more efficiently.

The feature builds on the use of CA Datacom/AD as the database. The SUBSEL=ENH keyword on the OPTIONS initialization statement controls it.

For the sites using workload balancing (WLB), be aware that enhanced submission selection uses a subset of WLB processing. Only the following WLB features are used:

- Class barriers (CLBARR BARA-9=)
- Total initiators (INITR TOTAV=)
- Tape drive counts (TAPE1/2 TOTAV=)
- Job priority as defined on the job. The value is treated as a constant (none of the awards or penalties are applied).

The subset of WLB used by enhanced submission selection is sufficient for most sites using WLB. Sites who feel they are receiving value from the other aspects of WLB can continue to do so. They can specify SUBSEL=NORM (the default) on the OPTIONS initialization statement.

You can use the /DISPLAY,PERF=SUBSEL to display the enhanced submission selection performance data.

Note: For more information about the enhanced submission selection, see the *Systems Programming Guide*.

/CHGOPT Command

A new command, /CHGOPT, lets an authorized user update certain initialization file options after CA WA CA 7 Edition is already brought up. Some of the functions, like the XJOB submission, require that CA WA CA 7 Edition start with the option active. Other functions, like issuing CAICCI terminal message and load class, are switches/values requiring no special environmental setup.

Note: For more information, see the *Command Reference Guide*.

New Startup Type - CKPT

This version supports a new CKPT startup option. You can specify CKPT as PARM data on the EXEC statement or on the INIT statement in the initialization file. The CKPT option performs the same functions as an ERST start except that the checkpoint file is reinitialized.

Note: For more information about the CKPT startup option, see the *Systems Programming Guide*.

Chapter 3: Enhancements to Existing Features

This section contains the following topics:

[CA CSM](#) (see page 30)

[Documentation](#) (see page 30)

[Batch and Online JCL Changes](#) (see page 31)

[SASSHIS5 Reports](#) (see page 31)

[#MODID](#) (see page 32)

[Browse and Log Separator Line](#) (see page 32)

[New Security Options](#) (see page 33)

[Default User ID Option](#) (see page 33)

[Updated Security Display](#) (see page 34)

[Enhanced BSUBCHK Function](#) (see page 35)

[SASSEXTT Changes](#) (see page 35)

[Expanded ID Fields](#) (see page 36)

[Log Record Compatibilities](#) (see page 37)

[HIJBNUM Changes](#) (see page 37)

[Mass Job Rename Utility](#) (see page 38)

[CA07LOGP and CA07LOGS Job SCHID Change](#) (see page 38)

[Jobflow Monitor Changes](#) (see page 39)

[Jobflow Illustrator Changes](#) (see page 39)

[Database Backup, Reload, and Reporting](#) (see page 40)

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[Data Set Creation Date and Time](#) (see page 41)

[LTERM Functionality on the Job Definition Screens and /JCL Statement](#) (see page 41)

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[Format Changes](#) (see page 44)

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[Virtual Resources and Restarting CA WA CA 7 Edition](#) (see page 55)

[Initialization File Statement Changes](#) (see page 55)

[New Oracle E-Business Suite Job Parameters](#) (see page 56)

[r11.3 Enhancements and Other Changes](#) (see page 57)

CA CSM

CA Mainframe Software Manager™ (CA MSM) is renamed to CA Chorus™ Software Manager (CA CSM) and adopts the CA Chorus look-and-feel.

CA CSM Release 5.1 lets you manage and organize tasks with policies. Use task management policies to copy, delete, and move task output. Select tasks that are based on criteria including their age and their type. Create task policies using the Task Policy wizard.

Note: For more information, see the *CA Chorus Software Manager User Guide*.

Documentation

This section contains topics that are related to documentation enhancements.

Technical Information Content Philosophy

The documentation set focus on the following key areas:

- An end-to-end view that gives you access to content across the full lifecycle of your product, including content from technical information, product management, support, sales, services, and education. The bookshelf that is based on the end-to-end model provides you with traditional guides and links to various information sources that are related to your product.
- Concise product content that promotes usability and accessibility.

Installation Guide

The Installation Guide has been restructured and describes the following methods of installing your product:

- CA CSM
- Pax-Enhanced Electronic Software Delivery (Pax ESD)

Systems Programming Guide

The Systems Programming Guide has been significantly restructured for this version.

Batch and Online JCL Changes

The CA7BAT and CA7ONL JCL procedures have changed in this release. The CA7BAT procedure includes a new UCC7DQTQ DD statement. The CA7ONL procedure has undergone the following changes:

- The DD statements for most of the CA 7 queues are removed because this information is now stored in CA Datacom/AD.
- A new SYSMDUMP DD GDG data set allocation has been added. CA WA CA 7 Edition exploits 64-bit storage that is not captured in a SYSUDUMP, thus the need for the SYSMDUMP.
- A new step deletes the SYSMDUMP GDG on a successful shutdown. The SYSMDUMP data set is large. A successful shutdown eliminates the reason to retain it and tie up DASD space.

SASSHIS5 Reports

The SASSHIS5 report includes new parameter options. A selection of literal date ranges is added to the existing date options. These literal date ranges enable easier history management.

Each date range literal indicates both a beginning date and an ending date for history records that are moving to archives. The ending date is used in the same way that the current YYDDD specified date is used. All records that are dated up to and including the ending date are moved to archives. The beginning date is used as a check to allow for a notification when records outside of the date range are moved into archives. If the history file contains only records that all fit within the literal date range, all records are moved to archives. If some records are dated before the beginning date, the check fails. A message is printed in the output report listing the earliest date found in the history file. The job ends with return code 4. This condition still moves records to archives.

For example, a job could be scheduled to run at the beginning of each month, using the literal date range LMNTH. This job moves all records from the previous calendar month to archives and creates another generation of the history file. This new generation contains only log records from the current month. The previous generation contains only records from the previous month. With the history generations aligned month to month in this way, locating required log records is accomplished easily.

Note: For more information about literals for date range record archival control and their meanings, see the *Systems Programming Guide*.

#MODID

All CA WA CA 7 Edition modules all contain a common module identification block as part of a CA Technologies initiative. All assembler and C/C++ programs that are assembled or compiled at CA Technologies and distributed include this ID block. A #MODID macro, which is not distributed, builds the ID block.

The information in the ID block is available for debugging and CA Common Services reporting. The information identifies the source and level of a program in-core that is tagged with a #MODID macro.

CA WA CA 7 Edition assembler programs already have a core mark that the SASSVRSN entry/exit macro generates. SASSVRSN is modified to use the new ID block that #MODID generates instead of the older core mark.

SASSVRSN is distributed in the CA WA CA 7 Edition macro library and can be used in CA WA CA 7 Edition exits or customer code. Assembling SASSVRSN at a customer site generates a core mark that does not use #MODID.

Important! Reassemble all user exits and other source code that uses any macros in the CA WA CA 7 Edition macro library. Use the latest version of the macro library for the reassembly.

Browse and Log Separator Line

In previous releases, the browse (and thus the log) data has time separator lines in the format of 70 dashes followed by a time mark. The separator line in the browse data set looks like the following example:

```
0      1      2      3      4      5      6      7      7
1      0      0      0      0      0      0      1      8
-----HH:MM:SS
```

This release adds the date to the line so that the user can tell to which day the data belongs for the following reasons:

- This separator is a key to positioning when looking at browse and log data.
- The browse data wraps continuously.

The following example is the new format of the separator line:

```

0      1      2      3      4      5      6 6      7      7
1      0      0      0      0      0      0 4      1      8
----- YY.DDD HH:MM:SS

```

This format permits faster positioning in these files to the minute of where an event occurs by executing a find command for *yy.ddd hh:mm*.

yy.ddd

Represents the desired Julian date.

hh:mm

Represents the hour and minute.

New Security Options

New parameter options are available for the security statement. When activating external security for CALENDAR and SUBCHECK, users can optionally specify a class value. On the SECURITY initialization statement, you can specify a CCLASS or SCLASS for CALENDAR and SUBCHECK, respectively. This specification lets you select different values for each CA 7 instance, extending access control.

- The default value of CCLASS is CALENDAR for CA ACF2 and RACF users. For CA Top Secret users, the default is \$CALNDR.
- The default value of SCLASS is SUBMIT for all three security products.

The updated /DISPLAY,ST=SEC command reflects these new values.

Note: For more information, see the *Security Reference Guide*.

Default User ID Option

The new DFLTUSER option lets you specify a default USERID. This option does not affect cross-platform jobs and agent jobs. The default USERID is a new option for the SUBUID user hierarchy. This default USERID is inserted into the JCL at submission time. Because this option inserts the default USERID into any job without a USERID, take care to set security permissions for the default ID correctly.

You can specify the default USERID with the new DFLTUSER keyword in the SECURITY statement. This statement is read when CA WA CA 7 Edition is initialized. To change the keyword, update the initialization file and reinitialize CA WA CA 7 Edition. To add the default option to the SUBUID parameter, insert DEFAULT into the list of USERID locations at the desired position.

The updated security options display (/DISPLAY,ST=SEC) now shows the current default USERID when this option is present in the initialization file.

Note: For more information, see the *Security Reference Guide*.

Updated Security Display

With the changes to allow defining a class value for calendar and job submission security, the security display is updated. The active class values are displayed in parentheses to the right of the active security class. Also the setting for the Default User ID is shown.

Note: For more information about the /DISPLAY,ST=SEC command, see the *Security Reference Guide*.

More information:

[Format Changes](#) (see page 44)

Enhanced BSUBCHK Function

The function of BSUBCHK is enhanced for CAICCI and TCP/IP terminal jobs. This change lets the BSUBCHK setting for the target CA WA CA 7 Edition instance optionally control SUBMIT security checking on the terminal side. In addition, if an SCLASS value other than the default is specified for the instance, this value is optionally used to perform the SUBMIT security checks on the terminal side.

Previously, a SUBMIT security check was only performed when the system on which the terminal executes had BSUBCHK enabled.

With this change, if BSUBCHK is turned on for the target instance of CA WA CA 7 Edition, a SUBMIT security check is performed. The check can use the SUBMIT class value that is defined for the instance. If the target CA WA CA 7 Edition has BSUBCHK disabled, no SUBMIT security check is performed. If the target instance of CA WA CA 7 Edition is an older version, the current function of the program is preserved. SUBMIT security checking is done based on the BSUBCHK setting on the system on which the terminal executes with the default SUBMIT class value.

Note: For more information about the BSUBCHK setting, see the *System Programmer Guide*.

In all cases, the initial SUBMIT security check is performed on the terminal system. For that reason, any security rules that are defined for the SUBMIT class must be present on this system too.

Note: For more information about the SUBMIT class values, see the *Security Reference Guide*.

SASSEXTT Changes

With this release, you can turn off prompting for externally tracked jobs. \$L2EXTT has a new optional keyword, PROMPT, which controls whether prompts are enabled (PROMPT=Y), or disabled (PROMPT=N). PROMPT=Y is the default. Additionally, the LATEPROMPT keyword of the initialization OPTIONS statement is now applicable to externally tracked jobs. Set the LATEPROMPT keyword to LATE and the \$L2EXTT PROMPT keyword to N if you do not want to mark externally tracked jobs as late.

Note: For more information, see the *Systems Programming Guide*.

Expanded ID Fields

The values of several fields have been expanded beyond their r11.3 limits, which were 0-255. Some restrictions remain in place. All related panels, commands, and reports are modified to accept the change. No screen positions are changed because the new maximum value 999 fits within the space occupied (for example, 255).

JCLID

The value of this JCL index number can now range from 0 through 999. Index number 254 is still reserved for the JCL override library. Index number 255 is reserved for any data sets referred with a JCL index (&aaaaaaaaaaaaaaaa).

UID

This field specifies the CA WA CA 7 Edition security identification. The field is not the user ID of the person that is logged on to the product. The value of this field can now range from 0 through 999. The default value of 0 still means that there is no internal security protection. The value of 255 is reserved and grants all security access.

If your security UID table is mentioned on the SECURITY,NAME= initialization statement (SASSUID or equivalent), you must reassemble and relink it.

The SASSXX07 data set resource exit has a parameter list. This parameter list has changed to process a two-byte UID. If you have an SASSXX07 exit, see the *Systems Programming Guide* for the parameter list changes.

SCHEDULE ID

The value of the SCHID can now range from 0 through 999.

As with any release, any user programs, exits, and so forth, that use CA WA CA 7 Edition macros, must be reassembled and relinked using the Version 12.0 version of the macros. This group includes a UID table, if there is one.

Change all JCL, including CA 7, reports (SASSHIS8, CA Earl, CA Easytrieve, and other), and user programs that use CA WA CA 7 Edition libraries to point to the appropriate Version 12.0 libraries.

Note: We suggest that customers do not take advantage of these expanded fields until after conversion to the CA Datacom/AD database is complete and validated. If it becomes necessary to revert to an earlier database, fields in the range 256-999 require handling on an exception basis. Sample job AL2DCR10 can be used to identify elements using expanded IDs.

Log Record Compatibilities

Different releases of CA WA CA 7 Edition create log records with different formats. When executing the SASSHIS8, CA Earl, or CA Easytrieve log extract program, a new program, SASSLTRN, is called to translate an r11.x log record to Version 12.0 format as needed.

The programs that select records for the SASSHIS8, CA Earl, and CA Easytrieve reports call SASSLTRN internally. This call means that input log files (or file concatenations) for these reports can contain heterogeneous mixtures of r11.x and Version 12.0 log records or log files.

If you have created your own CA Earl or CA Easytrieve reports, it is important to point to the new formats in the CA WA CA 7 Edition Version 12.0 libraries and adjust your reports accordingly.

Note: For more information, see the *Report Reference Guide*.

HIJBNUM Changes

The HIJBNUM parameter specifies the highest permitted CA 7 assigned job number. You can change the HIJBNUM value on any valid start type (WARM, ERST, CKPT, COLD, or FORM).

Note: Before you decrease the HIJBNUM value on a WARM or ERST type start, consider the following items:

- Some jobs in the status queues can already have job numbers greater than the new HIJBNUM value.

These jobs process normally through the queues, but no jobs entering the queues after startup are assigned job numbers greater than HIJBNUM.

The size of some in-memory queue tables is typically based on the HIJBNUM value. For this execution of CA WA CA 7 Edition, the size is based on the greater of HIJBNUM and the highest job number present in the queues at startup time.

- At startup, if the next job number to assign is greater than HIJBNUM, it is reset to the lowest available job number.

Mass Job Rename Utility

With this release, the Job Rename Facility is an online function instead of a batch process. The JRENAME top line command replaces the series of batch jobs (AL2JRxx members of CAL2JCL) that r11.3 and previous releases used. You can use a batch terminal interface to change multiple jobs simultaneously.

Note: For more information, see the *Command Reference Guide* and the *Database Maintenance Guide*.

CA07LOGP and CA07LOGS Job SCHID Change

In previous releases, the CA07LOGP and CA07LOGS jobs that execute automatically to dump the CA WA CA 7 Edition log data (LOGP/LOGS) execute under SCHID 0. With this release, they run under SCHID 1. The name of the primary log dump job is identified in the initialization file DBASE statement with the JOB keyword. The name of the secondary log dump job has the same first seven characters, with the last character replaced with an S.

Existing triggers that these jobs activate continue to work. If a trigger was previously defined for one of these jobs using SCHID 1, that trigger would never have activated. With this change, the jobs now run under SCHID 1, making it possible for a previously inactive trigger to become active. We recommend that you review the triggers based on the CA07LOGP and CA07LOGS jobs.

Jobflow Monitor Changes

Jobflow Monitor, introduced in r11.3, lets the Critical Path Monitoring component (CPM) track dependency paths in CA WA CA 7 Edition flows.

All the workload data that Jobflow Monitor Version 12.0 requires resides in CA Datacom/AD. Thus, the sample Jobflow Monitor JCL (AL2JFM) now includes CA Datacom/AD libraries that are required to access CA WA CA 7 Edition data.

Because Jobflow Monitor retrieves CA WA CA 7 Edition data from the database, Jobflow Monitor Version 12.0 no longer supports the MONITOR statement keyword: DBDDN.

Important! Jobflow Monitor supports *only* CA 7 instances starting with Version 12.0. Jobflow Monitor does not support instances from previous releases. You cannot intermix CA 7 instances in Jobflow Monitor from any releases before Version 12.0. If you do, an error for that instance occurs. If you want to monitor multiple CA 7 instances in a single Jobflow Monitor address space, all of the CA 7 instances must be running in the same CA Datacom/AD MUF.

Note: For more information, see the *Interface Reference Guide*.

Jobflow Illustrator Changes

Sites that run Jobflow Illustrator (JFI) in batch or invoke it using the CA 7 Web Client must include the CA 7 CA Datacom/AD database STEPLIB libraries in their batch JCL, SCHSRVR task JCL, or both.

Important! Jobflow Illustrator Visio Option is no longer supported and does not work with CA WA CA 7 Edition Version 12.0. If you are actively using this Visio option, you must convert to using the CA 7 Web Client interface.

Note: For more information about executing JFI in batch mode, see the *Interface Reference Guide*. For more information about setting up the SCHSRVR tasks, see the *CA 7 Web Client Product Guide*.

Database Backup, Reload, and Reporting

In this release, a CA Datacom/AD database replaces the VSAM database. None of the previously suggested backup/reload methods, including SASSBK00, are valid in this release.

In addition, SASSBK00 is no longer valid for database reporting. Any reporting (CA Earl, CA Easytrieve, user-written programs, third-party packages) that uses output from SASSBK00 is also affected. This reporting includes SASSXREF-01, SASSXREF-02, SASSXREF-03, and CA7xx701 – 711 (xx = ER for CA Earl reports, EZ for CA Easytrieve reports).

Functions that SASSBK00 previously performed (backup, reload, and reporting) are accomplished using CA Datacom/AD utilities. Functions previously performed with the backup/reload user exit (EXITMOD=) and the cross reference user exit (XREFMOD=) can be implemented using CA Datacom/AD utilities, SQL, or both.

Execution of SASSBK00 with any option (BACKUP, RELOAD, LIST, SUM, XREF) produces the following results:

- A CAL2B0100E WTO to the CA WA CA 7 Edition JES job log.
- A U0010 abend.

All database backup, reload, and reporting procedures are affected and require modification.

Note: For more information about backup and recovery, see the *Systems Programming Guide*. For more information about SQL reporting, see the *Report Reference Guide*.

Database Verification

Updates to the Database Verification utility support the CA Datacom/AD database. These updates include changes to execution JCL, input parameters, output messages, and the DBVR program name. The new database verification program name is CAL2DBVR.

Execution of the old program name, UCC7DBVR, results in a CAL2V100E WTO to the JES job log and a U0011 abend.

Note: For more information about the Database Verification utility, see the *Systems Programming Guide*.

Data Set Creation Date and Time

The last creation date and time is set differently for data sets that have multiple SMF type 15 records generated. The output from the LDSN and LCTLG commands reflects this change.

For multivolume data sets, previous releases used the date and time of the last volume created. In Version 12.0, the date and time of the first volume that is created is used.

For data sets that are opened or closed multiple times within a job step, previous releases used the date and time of the last creation. In Version 12.0, the date and time of the first creation is used.

LTERM Functionality on the Job Definition Screens and /JCL Statement

You can set a logical terminal name (LTERM) on the job definition screens (DB.1, DB.10, and DB.11), associate an LTERM with a JCL library in the initialization file, or include an LTERM in a /JCL command. The LTERM specifies that messages relating to the job are routed to this logical terminal name. In this version, if this value references a virtual terminal, a CAICCI terminal, or CONSOLE, it is dynamically changed to route the messages to the MASTER terminal. Messages that are routed to MASTER are written to the BROWSE DD file.

This process ensures that any multiple page output does not fill the CA Datacom/AD tables with unread messages.

APA Graph Changes

With this release, several APA Graph counters are removed, and several new counters are added.

The following GRAPHD counters are removed from the GRAPHD Database Graph Descriptions:

0010

NO. OF IDS ENTRIES ADDED

0020

NO. OF IDS ENTRIES DELETED

The following GRAPHD counters are added to the GRAPHD Database Graph Descriptions:

0340

NO. OF TIMES DBTASKS ARE BUSY

0350

NO. OF CALLS TO CA DATACOM

0360

CA DATACOM CALLS FOR ARF

0370

CA DATACOM CALLS FOR DATASETS

0380

CA DATACOM CALLS FOR INDEXES

0390

CA DATACOM CALLS FOR JOBS

0400

CA DATACOM CALLS FOR QUEUES

0410

CA DATACOM CALLS FOR VRM

The following GRAPHs counters are removed from the GRAPHs System Graph Descriptions:

0780

SMF LOCATES DONE VIA MAIN SUBTASK

0790

SMF LOCATES DONE VIA SMF SUBTASK

0800

AVERAGE TIME PER SMF LOCATE IN MAIN SUBTASK (1/10 SECS)

0810

AVERAGE TIME PER SMF LOCATE IN SMF SUBTASK (1/10 SECS)

0820

CA-7 UP TIME VS. SMF SUBTASK TIME

0900

AVERAGE TIME PER BLDL ON JOB DS IN 1/10 SECONDS

0901

AVERAGE TIME PER BLDL ON DATASET DS IN 1/10 SECONDS

0910

AVERAGE TIME PER STOW ON JOB DS IN 1/10 SECONDS

0911

AVERAGE TIME PER ADD STOW ON JOB DS IN 1/10 SECONDS

0912

AVERAGE TIME PER RPL STOW ON JOB DS IN 1/10 SECONDS

0913

AVERAGE TIME PER DLT STOW ON JOB DS IN 1/10 SECONDS

0920

AVERAGE TIME PER STOW ON DATASET DS IN 1/10 SECONDS

0921

AVERAGE TIME PER ADD STOW ON DATASET DS IN 1/10 SECONDS

0922

AVERAGE TIME PER RPL STOW ON DATASET DS IN 1/10 SECONDS

0923

AVERAGE TIME PER DLT STOW ON DATASET DS IN 1/10 SECONDS

0930

AVERAGE TIME PER IDS LOCATE IN 1/10 SECONDS

0931

PERCENTAGE OF IDS LOCATES OVER 1/2 SECOND

0932

IDS LOCATES DONE PER REQUEST

0933

AVERAGE TIME PER IDS JDEP LOCATE IN 1/10 SECONDS

0934

PERCENTAGE IDS JDEP LOCATES OVER 1/2 SECOND

0940

AVERAGE TIME PER INDEX ADD REQUEST IN 1/10 SECONDS

0941

AVERAGE TIME PER INDEX CHANGE REQUEST IN 1/10 SECONDS

0942

AVERAGE TIME PER INDEX DELETE REQUEST IN 1/10 SECONDS

1110

NUMBER OF DB ACCESSES FOR DATA TYPE I ADDS

1120

NUMBER OF DB ACCESSES FOR DATA TYPE I DELETES

Note: For more information about Automated Performance Analysis, see the *Report Reference Guide*.

Format Changes

The following topics detail various format changes for this version.

Screen Changes

The following table details various screen changes for this version.

Format Block	Commands	Specific Column Changes
SFMxMSGn	/LOGON /LOGOFF	Messages no longer display the Service Pack/Aggregate Maintenance number.
SFMxMSG3	/LOGON	In row 18, column 30, the "CA 7 Edition" is displayed with 3 spaces between A and 7 and 4 spaces between 7 and E of Edition (appears below the CA Workload Automation line).
SFMxSCMD	/DISPLAY,DB=VSAM	Deleted: entire panel
SFMxSCMX	/DISPLAY,ST=CA7	In row 11, changed "Port" in col 51 to "TCP Port", starting in col 48.

Format Block	Commands	Specific Column Changes
	/DISPLAY,ST=SEC	<p>Under External Control, if external security is active, the class specification appears next to SUBCHK and CALENDAR (rows 9 and 12, starting on column 51 for these words).</p> <ul style="list-style-type: none"> ■ If a default user ID is coded on the SECURITY statement, the value appears on row 21. The value starts in column 2 with the tag "Default User ID :". ■ The User ID hierarchy is sometimes adjusted when a default user ID is specified (variable, depends on the hierarchy).
SFMxSDMA	DB.A	<p>Option K, OS400, now includes the characters (i5/OS) for clarity.</p> <p>Option P is added to represent Proxy or Remote Execution jobs.</p>
SFMxSFCJ	FALL, FQALL, FJOB, FQJOB	<p>Changed: row 6, col 43 from "SCHED#" to "SCHED".</p> <p>Changed entries in row <i>n</i>, col 44 from "SJnnnnnn" to " YES ".</p>
SFMxSFCN	FALL, FQALL, FPOST, FQPOST, FPRE, FQPRE, FSTN, FQSTN	<p>Changed: row 6, col 57 from "SCHED#" to "SCHED".</p> <p>Changed entries in row <i>n</i>, col 58 from "Sxnnnnnn" to " YES ", where x is I or O.</p>
SFMxSFCT	FTAPE, FQTAPE	<p>Changed: row 7, col 50 from "SCHED#" to "SCHED".</p> <p>Changed entries in row <i>n</i>, col 51 from "SJnnnnnn" to " YES " or " NO ".</p>
SFMxSFCW	FJOB,LIST=WP	On row with SCHEDULE, deleted: col 47, "SCHD MBR=SJnnnnnn"
SFMxSLIA	LJOB	<p>Deleted: row 5, col 48, "DSNBR".</p> <p>Changed: row 7, col 48 from "nnnnnn" to " YES " if the job is scheduled and from "*NONE*" to " NO " if the job is not scheduled.</p>
	LJOB,LIST=RQMT	On row after NWK= <i>network</i> , deleted: col 12, "NWNBR=NWnnnnnnnn"
	LJOB,LIST=STEPDD	DSNBR=TPnnnnnn is no longer included on lines with TYPE=TEMP.
	LJOB,LIST=TRIG	Combined the row with NWK= and the following line with SCHID= into one row. On row with NWK= changed: col 15 from "NWnnnnnn (network)" to "network".
SFMxSLIB	LPROS	Changed: row 7, col 51 from "PPnnnnnn" to col 50 "PPnnnnnnnn"

Format Block	Commands	Specific Column Changes
SFMxSLIC	LSYS	Deleted: row 5, col 48, "DSNBR". Changed: row <i>n</i> , col 48 from "nnnnnn" to " YES " if the job is scheduled and from "**NONE*" to " NO " if the job is not scheduled.
SFMxSLIG	LSCHD,JOB=	Deleted: row 5, col 22, "NUMBER". Changed: row <i>n</i> , col 21 from "SJnnnnnn" to " YES " if the job is scheduled and from "**NONE*" to " NO " if the job is not scheduled.
	LSCHD,NW=	Deleted: row 5, col 25, "NUMBER". Changed: row <i>n</i> , col 24 from "Sxnnnnnn" to " YES " if the network has a schedule and from "**NONE*" to " NO " if not. The x is "I" for an input network and "O" for an output network.
	LSCHD,DSNBR=	Keyword deleted
	LSCHD,STN=	Keyword deleted
SFMxSLIH	LNTWK	Deleted: row 5, col 28, "DSNBR". Changed: row <i>n</i> , col 10 from "NWnnnnnn" to " N/A ". Changed: row <i>n</i> , col 27 from "Sxnnnnnn" to " YES " if the network has a schedule and from " *NONE* " to " NO " if not. The x is "I" for an input network and "O" for an output network.
	LNTWK,DSNBR=	Keyword deleted
SFMxSLIJ	LLOCK,DSNBR=	Keyword deleted
SFMxSM60	DB.3; JOBCONN	Deleted at row 13, col 5: "7 – REPORT IDS CREATED"
SFMxSM61	DB.3.7; JOBCONN,RPT	"Report IDs Created" function deleted.
SFMxSM71	DB.2.1; DB.2.2; DB.2.3	Changed: row 23 in msg "xxxx FUNCTION SUCCESSFUL FOR Sfnnnnnn", where xxxx is SAVE, REPL, or DELETE and f is J, I, or O. The FOR Sfnnnnnn is now deleted. FOR started in col 36 for SAVE/REPL and col 38 for DELETE.
SFMxSM75	DB.2.5	Changed Row 4, column 64 to remove "DSNBR:" and subsequent network number.
SFMHSM20	DB.1; JOB	Added: row 6, column 2, "JOBL: " followed by 64 character input field.
SFMHSM22	DB.10; XPJOB	Added: row 5, column 2, "JOBL: " followed by 64 character input field.
SFMHSM23	DB.11; AGJOB	Added: row 5, column 2, "JOBL: " followed by 64 character input field.

Format Block	Commands	Specific Column Changes
SFMHSM71	DB.2.1; SCHD,JOB	Added: row 6, column 2, "JOBL: " followed by 64 character input field.
SFMHSM80	DB.2.7; SCHDMOD	Added: row 4, column 2, "JOBL: " followed by 64 character input field. Changed: row 23 in msg "xxxx FUNCTION SUCCESSFUL FOR Sfnnnnn", where xxxx is UPD or LIST and f is J, I, or O. The FOR Sfnnnnn is now deleted. FOR started in col 35 for UPD and col 36 for LIST.

Note: For more information, see the *Command Reference Guide* and the *Database Maintenance Guide*.

Service Pack/Aggregate Maintenance

Previous releases displayed the Service Pack (SP) or aggregate maintenance (AM) number in many places following the release number. These places included the logon screen, command results, and WTOs (message numbers range from CA-7.000 through CA-7.043). In all cases, blanks now replace the Service Pack or aggregate maintenance number.

Report Changes

The following topics detail reporting changes for this version.

CAL2ENVR Report

The CAL2ENVR report contains a new section, the Logical DB Name ENQ Summary. This report shows what CA Datacom/AD logical database names are in use and the type of control. The entries in the DBOWN part are under exclusive control and the entries in the DBUSE part are under shared control.

SASSHIS8 Reports

In previous releases, the SASSHIS8-HR70 report events 04, 05, 14, and 1A contained a UID field. Because the data within the field was not useful, the field now contains one of the following items:

- The JES number of the current job for MVS jobs.
- The job type for jobs other than MVS jobs.

This change adds more relevant detail to the report.

Event 76 also contained a UID field but now contains a blank. The blank provides a cleaner look to the report without the miscellaneous data.

With this release, a new SASSHIS8 report is available to view the new metrics information, SASSHR25. The SASSHR25 report is not backward compatible with the log data of a prior release. The user can also now create a compare report to look at the changes between two separate HR25 reports, using SASSHC25, and generate a CSV file with the metrics information.

Note: For more information about the report JCL and output, see the *Report Reference Guide*.

Report Title Changes

For the SASSHIS*, CA Earl, and CA Easytrieve reports, the title now defaults to CA-7 instead of CA Workload Automation SE. If you want to keep the CA Workload Automation SE, see the SASSHIS8 execution parameter or the USERMODs AL2UM49 (CA Earl) and AL2UM50 (CA Easytrieve).

Command Changes

The following topics detail various command changes for this version.

Long Job Name Changes

The following commands have changes for the long job name enhancement. Each command supports the JOBL keyword.

- ADDRQ
- CANCEL
- DEMAND/DEMANDH
- FJOB, FQJOB

- FRJOB, FRQJOB
- FSTRUC
- HOLD
- LACT, LACTR
- LDTM
- LIST
- LICK
- LJCL
- LJOB, LJOBR
- LPRRN
- LQ, LQP, LQR
- LRDY, LRDYP, LRDYR
- LREQ, LREQP, LREQR
- LSCHD
- LSYS
- POST
- QJCL
- RELEASE
- REQUEUE
- RESTART
- RUN/RUNH
- XQ, XQJ, XQM, XQN
- XRQ
- XUPD

Note: For more information, see the *Command Reference Guide*.

Command Output Changes

The following commands have changes resulting from the long job name changes:

Command	Specific Change
HOLD	If a long job name is available, a line is inserted (online format) or added (batch format), " <i>jobname = longjobname</i> "
FJOB/FQJOB	JOB(S) field output now displays up to 54 characters. If a long job name is being displayed and is more than 54 characters, 53 are displayed. The 54th position is a '+' character. For the LIST=[W WP WPS WS] options, beginning on the second page, added "JOBL=" followed by 64 characters of output in column 2, directly underneath the row with "JOB="
FRJOB/FRQJOB	JOB(S) field output now displays up to 54 characters. If a long job name is being displayed and is more than 54 characters, 53 are displayed. The 54th position is a '+' character.
LDTM	Blank lines between each job entry are removed. If a long job name is associated with a job, it is displayed within parentheses on the line following the job entry. The opening parenthesis is in column 2. The closing parenthesis is in column 67.
LICK	Added: row 4, column 1, "JOBL=" followed by up to 64 characters containing the long job name of the requested job. Only displayed when the requested job has a long job name.
LJCL	Added: row 3, column 14, " <i>(longjobname...)</i> " where the closing parenthesis is in column 79 for jobs with a long job name. Not displayed if no long job name is available.
LJOB	Added: row 3, column 1, "JOBL=" followed by up to 64 characters containing the JOBL= input value. Only displayed when the JOBL keyword is used. If available, the long job name for each job is inserted in parentheses in the blank line after each job name. The opening parenthesis is in column 2. The closing parenthesis is in column 67.

Command	Specific Change
LQ/LQP/LQR, LACT/LACTR, LRDY/LRDYP/LRDYR, LREQ/LREQP/LREQR	Added: row 3, column 1, "JOBL=" followed by up to 64 characters containing the JOBL= input value. Only displayed when the JOBL keyword is used. For LQ, LACT, LRDY, and LREQ, a new section is added for LIST=ALL and LIST=JOB, 'LONG JOBNAME' that displays the long job name of the job.
LSCHD	Added: row 3, column 1, "JOBL=" followed by up to 64 characters containing the JOBL= input value. Only displayed when the JOBL keyword is used.
LSYS	If available, the long job name for the job is inserted in parentheses in the blank line after the job name. The opening parenthesis is in column 2. The closing parenthesis is in column 67.
LWLB/XWLB	The output of the LWLB command varies based on whether the enhanced submission selection (SUBSEL=ENH) is active.
RELEASE	If a long job name is available, a line is inserted (online format) or added (batch format), " <i>jobname = longjobname</i> ".

Note: For more information, see the *Command Reference Guide*.

Specially Prefixed Data Sets

In previous releases, the IDS data set contains entries for both operating system data set names and specially prefixed CA 7 'data set' names. The entries that are associated with specially prefixed CA 7 'data set' names contain information about job and data set triggers, predecessor jobs, networks, and prose. The special CA 7 prefixes affected by Version 12.0 are:

- JDEP
- AUTO
- PRED
- TRGD
- PP

When a generic DSN that begins with a CA 7 special prefix is specified in Version 12.0, the LCTLG and LDSN commands function differently than in previous releases.

- LCTLG does not include results for operating system data sets.
- LDSN does not support generic specifications that match a special prefix.

You can display these data set names by using a batch job that uses SQL. Use a generic special prefix specification using the sample SQL distributed in library CAL2SQL member AL2SDSN.

/COPY and /NXTMSG Changes

/MSG, /BRO, REMIND, and /COPY command output is now stored in a CA Datacom/AD table and retrieved using the /NXTMSG command. Once retrieved, the output is removed from the CA Datacom/AD table. The /COPY command cannot copy the output from a /NXTMSG command. Attempts to do so result in the display of error message:

SCM0-18 CANNOT COPY /NXTMSG COMMAND OUTPUT.

The REMIND message text is now limited to a single page. This limit reduces the chances of repeated remind prompts filling the CA Datacom/AD tables with unread messages.

/DISPLAY Command

This release introduces the following changes to the /DISPLAY command:

DB=keyword

In this release, tables in a CA Datacom/AD database replace the VSAM database and queue data sets. A modification to the /DISPLAY,DB= command uses a new keyword to display information about the CA Datacom/AD database. The command /DISPLAY,DB=VSAM is not valid in this release, and the /DISPLAY,DB=DATACOM command replaces it.

/DISPLAY,DB=VSAM receives the following error message:

SCMD-05 INVALID OR OMITTED DB=VSAM

PERF=keyword

In this release, metrics are gathered for certain areas and can be instantaneously gathered and displayed using the /DISPLAY,PERF= command. Metrics are gathered for z/OS, JES, SCT, VJB, zIIP, submission selection, and CA Datacom/AD.

POOLS|PL=keyword

Storage is now obtained in 64-bit memory, and this storage is reflected in the storage pools display (G64).

Q=keyword

In this release, tables in a CA Datacom/AD database replace the queue data sets for all the status queues and the trailer queue. SCRQ and DQTQ remain as the only queue data sets. You can display the DASD track information for SCRQ and DQTQ. You can also display the 64-bit memory usage for in-core tables that are related to the status queues and trailer queue.

Note: For more information about the command output, see the *Command Reference Guide*.

/EMAIL and /EADMIN Changes

If TCP/IP is not available at initialization, the /EMAIL and /EADMIN,ENABLE=Y commands can now be used to reattempt a connection to TCP/IP for the email interface. If the initial and subsequent connection attempts fail because TCP/IP is unavailable, the following symptoms are present:

- WTO: "CAL2E002E UNABLE TO RESOLVE ESERVER NAME FUNC=INTIAPI RC=-00000001 REA=00001036"
- /DISPLAY,ST=EMAIL shows "ENABLED: NO TCPI/IP"

Note: We recommend that you set up automation to detect the CAL2E002E WTO and check for the reason code of 1036. Next, issue the /EADMIN,ENABLE=Y command to establish a TCP/IP connection to prevent the user from having to do anything.

ADDRQ Command

With previous releases, you could add the same requirement many times for a job in the request queue with the ADDRQ command (even though all of the duplicates would get satisfied simultaneously). With Version 12.0, the ADDRQ command no longer permits duplicates for either dependent jobs or user requirements. However, if the requirement is already satisfied, an ADDRQ command unsatisfies it, or you can manually mark it as unsatisfied with the XRQ command.

Note: If an instance that contains duplicate dependent job or user requirements is converted to a CA Datacom/AD database, any duplicate posted requirements are not included in the database.

AGFILE Command

The AGFILE command has a new value for TYPE, TYPE=SPOOLREF. This keyword fetches the spool file location of the specified PROXY_JOB job. This value is only valid for Remote Execution Agent (PROXY) jobs. This command can also be invoked with the GR line command.

CANCEL Command

The CANCEL command has the new keyword KILL={NO|YES}. The KILL keyword controls whether to stop a Remote Execution Agent job (PROXY_JOB) in the active queue immediately or let it terminate normally. The default is normal termination. This keyword is only valid for Remote Execution Agent (PROXY) jobs.

LPRRN Command

For XPJOBS, AJB control block data is no longer retained in the prior run queue when RETAIN:Y is specified in the DB.10 XPJOB definition panel. The LPRRN command, when used with the option LIST=ALL or LIST=XPJOB, no longer lists the XPJOB information that was solely obtained from the AJB control block. The options LIST=ALL or LIST=JCL now list the PARMLIB data for the job.

The SASSHR11 history report still contains the AJB data. Use this report to list out all data for an XPJOB.

NXTCYC Command

The NXTCYC command can now update the last run date and time manually with the SET=RUN keyword. With this updating, future workload requirements that depend on this job are satisfied without any manual intervention. Improper updates to last run date and time for a job could adversely affect job serialization. Updates to the last run date and time do not affect requirements for jobs that have already entered the queues.

Note: For more information, see the *Command Reference Guide*.

RQMT, TRIG, and XREF Commands

The RQMT, TRIG, and XREF commands are no longer supported because of the use of the CA Datacom/AD database.

Virtual Resources and Restarting CA WA CA 7 Edition

Jobs waiting on virtual resources continue to wait for the same virtual resources over restarts of CA WA CA 7 Edition even when the virtual resources assigned to the job are changed in the database. In previous releases, the virtual resources upon which a job waits could change when CA WA CA 7 Edition was restarted.

Initialization File Statement Changes

This release introduces several changes to the initialization file. For more information about these statements, see the *Systems Programming Guide*.

More information:

[GROUP Statement](#) (see page 55)

[STATIONS Statement](#) (see page 56)

GROUP Statement

When defining the browse log, the name of the GROUP statement must be BROWSE.

STATIONS Statement

For a normal online run of CA 7 (RESIDENT statement does not have NETWORK=BAT), the MASTER station must refer to a terminal (TERM statement) with DEVICE=BSAM. That terminal must be in a group (GROUP statement) with a name of BROWSE.

For a batch run of CA 7 (RESIDENT statement has NETWORK=BAT), the MASTER station must refer to a batch terminal (TERM statement DEVICE=BATCH).

New Oracle E-Business Suite Job Parameters

A number of new parameters have been added to the Oracle Agent (r11.3.1) and are available for use in Version 12.0. For more information about the parameters, see the *CA Integrated Agent Services User Guide*.

- CUSTOMPROP
- NOTIFYUSERS
- NOTIFYDUSERS
- OUTPUTFORMAT
- PROGNOTIFYUSERS
- PROGNOTIFYDUSERS
- PROGOUTPUTFORMAT
- PROGQUOTEDEFAULT
- PROGRAMDISPL
- PROGTEMPLATELANG
- PROGTEMPLATERR
- QUOTEDEFAULT
- REQSETDISPL
- TEMPLATELANG
- TEMPLATETEER
- USESETDEFAULTS

Note: If you regress from Version 12.0 to r11.3, you must remove these keywords from the job definition.

r11.3 Enhancements and Other Changes

A number of enhancements and small programming changes occurred in r11.3 after it was announced as Generally Available (GA). This topic is a brief summary of these enhancements. For more information, see the CA 7 page in Support Online.

Performance Metrics (RO46400)

The enhancement introduces the gathering of specific CA WA CA 7 Edition data to capture metrics about how the online system (CA7ONL) address space is performing work. Writing new log records to the log files is part of this data gathering. These records are then used as input to a new SASSHIS8 report 25. Also, refer to the initialization file INIT statement, METRICS= keyword, and the /DISPLAY,PERF= command.

Web Client (RO30845 RO32830, RO37930, RO47077, RO49540, RO51291, and RO51292)

The CA 7 Web Client is designed to enable a customizable management by exception approach to managing the flow of work on multiple systems. By letting you visualize and respond to business critical events rapidly, the CA 7 Web Client supports your ability to respond to business critical issues quickly. The CA 7 Web Client continues to further the process of aligning workload automation functions with IT business services and providing a self-service management model.

Predictive CPM (RO52585, RO52586, and RO53740 for CPM)

This enhancement lets CPM track critical path flows even when the starting job of the flow fails to reach the ready queue. This feature is referred to as Predictive CPM. The feature requires using the JFM component with the new PREDICTFLOWS option enabled.

Initialization File CALENDAR Statement Order (RO48651)

During the initialization file processing, we were not checking the correct placement of the CALENDAR statement. The CALENDAR statement must come after the CPU statements.

CA7TOUNI to XPJOB to AGJOB Conversion Utilities (RO53097)

The CA7TOUNI preconversion utility has multiple enhancements. These enhancements include accepting JCL INCLUDE and SET statements that span lines or SET statements containing multiple name and value pairs on a single line.

Support for CA WA Agent for HP Integrity NonStop (RO55172, RO55173, and IAS RO54616)

This enhancement provides compatibility with the CA WA Agent for HP Integrity NonStop. You can now create job definitions for the HP Integrity NonStop jobs using the NONSTOP_JOB agent job type.

CA IAS AES256-bit support for agents (RO52578, RO52577)

Communication with CA WA Agents using AES 256-bit encryption is supported. The encryption definitions in the IASCRYPT DD can now have 64-character keys and specify TYPE(AES256) to indicate to use the larger encryption type. You can change your agent definitions to point to these new encryption definitions.

ARF and Service Desk Ticket Generation (RO48632)

This enhancement provides a method for ARF (ARFOVER=) to determine whether to generate a Service Desk ticket when using the CA Service Desk interface.

Job name added to SP07-21 (RO47522)

This enhancement now places the job name at the end of the SP07-21 message.

/DISPLAY,DB=LOG (RO55983)

This enhancement now displays the names of the log files.

Display XU83 table (RO55904)

With an ICOM modify command or reply to the WTOR, you can display the XU83 table with the command D=XU83.

ADDAGENT Parameter for CA IAS (RO56523)

The ADDAGENT keyword is new on the MANAGER statement of the IASAGENT agent definition file. ADDAGENT lets you specify a potential number of agents to add between the recycling of the scheduling manager. The default value lets you add five agents.

Note: For more information, see the *CA Integrated Agent Services Implementation Guide*.

Jobflow Monitor corrections and improvements (RO55212, RO55213)

These enhancements implement support for queries that components other than CPM use.

Last Run Date Update (RO58316)

This enhancement provides tools to transfer the last run date and time for selected jobs from one CA 7 database (remote) to the corresponding job names in another CA 7 database (primary).

Appendix A: Messages

This section lists some of the changed and removed messages in Version 12.0.00.

Note: For information about each message, see the *Message Reference Guide*.

This section contains the following topics:

[Messages Changed](#) (see page 59)

[Messages Removed](#) (see page 62)

Messages Changed

The following WTO messages are changed in this version.

Previous message	Current message
BCLP-97 ALLVSAM ERROR ATTEMPTING TO INIT/CONN, RC=xxxx	BCLP-97 DATABASE ERROR ATTEMPTING TO INIT/CONN, RC=xxxx
CAL2F175E JOB= is invalid when specifying EXTRACT=NO	CAL2F175E JOB(L)= is invalid when specifying EXTRACT=NO
CAL2F353E Error processing schedule record SJnnnnnn for job jjjjjjj	CAL2F353E Error processing schedule record for job jjjjjjj
CAL2F360E Error <i>n</i> processing job data set for job jjjjjjj	CAL2F360E Error <i>n</i> processing database for job jjjjjjj
CAL2F405C Error <i>n</i> processing job data set for job jjjjjjj	CAL2F405C Error <i>n</i> processing database for job jjjjjjj
CAL2F406E Unexpected EOD or error on SASDS for DSnnnnnnnn job=xxxxxxxx	CAL2F406E Unexpected EOD or error on database for DSnnnnnnnn job=xxxxxxxx
CAL2F407E Error processing index data set for job jjjjjjj	CAL2F407E Error processing database for job jjjjjjj
CA-7.DT60-01 ERROR RC=xx FDBK=yyyy	CA-7.DT60-01 UNABLE TO OPEN SYSPRINT FILE
CA-7.DT62-06 ERROR READING RESOURCE FILE (CA7SRC)	CA-7.DT62-06 ERROR PROCESSING DATABASE <i>n</i> SQLCODE= <i>code reason</i>
CA-7.DT70-50 ERROR READING ARFSET FILE (CA7ARFDB)	CA-7.DT70-50 ERROR INITIALIZING DATABASE ENVIRONMENT
CA-7.HLTD - ALLVSAM ERROR ATTEMPTING TO DISCON/FINISH, RC=xxxx	CA-7.HLTD - DATABASE ERROR ATTEMPTING TO DISCON/FINISH, RC=xxxx
CA-7.IARI - ARF DB INIT ERROR: RC=xxxx RS=rrrr INF=iiii	CA-7.IARI - ARF INIT ERROR: RC=xxxx RS=rrrr INF=iiii

Previous message	Current message
CA-7.RW102 VSAM RECD ERROR R15= xx FDBK = ccccccc FUN=ff	CA-7.RW102 VRM RECORD ERROR FOR JOB ccccccc FUN=ff
CA-7.RW901 ERROR DURING GENCB (EXLST) R15=xx	CA-7.RW901 UNABLE TO OPEN DBPARMS INPUT FILE
CA-7.RW902 ERROR DURING GENCB (ACB) R15=xx	CA-7.RW902 INVALID DBPARMS CONTROL CARD
CA-7.RW903 ERROR DURING OPEN RSRC FILE R15=xx ER=yyy	CA-7.RW903 ERROR INITIALIZING DATABASE ENVIRONMENT
CA-7.TARI - ARF DATA BASE SHUTDOWN COMPLETE	CA-7.TARI - ARF FUNCTIONS SHUTDOWN COMPLETE
CA-7.TARI- ARF DB TERM ERROR: RC=xxxx RS=rrrr INF=iiii	CA-7.TARI - ARF TERM ERROR: RC=xxxx
CA-7.XRAC-07 VSAM MACRO PROCESSING ERROR	CA-7.XRAC-07 DBIO MACRO PROCESSING ERROR
CA-7.203 - OUT OF SPACE IN INDEX DATA SET	CA-7.203 OUT OF SPACE IN OS CATALOG
CA-7.204 - OUT OF SPACE IN xxxxxx DATA SET DIRECTORY	CA-7.204 OUT OF SPACE STOW (xxx)
CA7.560 - SASSMA31 - STORAGE NOT AVAILABLE. ZERO BYTES REQUESTED.	CA7.560 xxxxxxxx - STORAGE NOT AVAILABLE. ZERO BYTES REQUESTED.
CA7.560 - SASSMAIN - STORAGE NOT AVAILABLE. ZERO BYTES REQUESTED.	CA7.560 xxxxxxxx - STORAGE NOT AVAILABLE. ZERO BYTES REQUESTED.
CA7.671 - DAIO STATEMENT MUST FOLLOW FORMAT STATEMENTS	CA7-671 OBSOLETE KEYWORDS ON FOLLOWING STATEMENT IGNORED
CA-7.943 - ERROR READING NAT CHECKPOINT RECORD	CA-7.943 SASSINW2 Storage Obtain failed, CA Datacom alternate message processing bypassed
CA-7.944 - ERROR READING LTERM CHECKPOINT RECORD	CA-7.944 Error accessing CA Datacom, CA Datacom alternate message processing bypassed
CA-7.946 – PREMATURE END DURING STATION MERGE	CA-7.946 SASSDMSG Load Failure, CA Datacom alternate message processing bypassed
CA-7.955 ALLVSAM ERROR ATTEMPTING TO INIT/CONN, RC=xxxx	CA-7.955 DATABASE ERROR ATTEMPTING TO INIT/CONN, RC=xxxx
CA-7.958 INVALID VSAM SHOWCB RET CODE (xx) - U0958	CA-7.958 INVALID VSAM SHOWCB RET CODE - U0958
CA-7.959 INVALID SASSDBMG (VSAM) ECFLIST - U0959	CA-7.959 INVALID SASSDBMG ECFLIST - U0959
SCMQ-69 ERROR: VSAM I/O UNSUCCESSFUL. FUNC=xx RC=xxxx FDBK=xxxx	SCMQ-69 ERROR: DB I/O UNSUCCESSFUL. FUNC=xx RC=xxxx FDBK=xxxx
SCNI-40 SCHEDULE EXPIRED FOR NETWORK SCHD Sxxxxxx	SCNI-40 SCHEDULE EXPIRED FOR NETWORK aaaaaaa

Previous message	Current message
SFC0-25 I/O ERROR DURING READ OF JOB SCHEDULE DIRECTORY FOR SJnnnnnn FOR JOB xxxxxxxx, RC=nn, WIP=B1, MODULE=GFCJ	SFC0-25 I/O ERROR DURING READ OF JOB SCHEDULE DIRECTORY FOR JOB xxxxxxxx, RC=nn, WIP=B1, MODULE=GFCJ
SFC0-26 I/O ERROR DURING READ OF JOB SCHEDULE MEMBER FOR SJnnnnnn FOR JOB xxxxxxxx, RC=nn, WIP=ww, MODULE=GFCJ	SFC0-26 I/O ERROR DURING READ OF JOB SCHEDULE MEMBER FOR JOB xxxxxxxx, RC=nn, WIP=ww, MODULE=GFCJ
SLIW-04 ARF DB BEGIN SEQ FAILED - RC=&RC RS=&RR	SLIW-04 ARF BEGIN SEQ FAILED - RC=&RC RS=&RR
SLIW-05 ARF DB GET NEXT FAILED - RC=&RC RS=&RR	SLIW-05 ARF GET NEXT FAILED - RC=&RC RS=&RR
SPOB-10 VSAM ERROR : FUNC=ff RC=rrrr CC=cccc KEY=kkkkkkkk	SPOB-10 DBIO ERROR : FUNC=ff RC=rrrr CC=cccc KEY=kkkkkkkk
SRC1-105 SCHEDULE RESOLUTION COMPLETED FOR xxxnnnnn, [SCAL=yyyy] (JOB=xxxxxxx) (NW=xxxxxxx)	SRC1-105 SCHEDULE RESOLUTION COMPLETE [SCAL=yyyy] (JOB=xxxxxxx) (NW=xxxxxxx)
SVPR-18 OUTPUT DSN=x...x NOT FOUND IN INDEX DATA SET	SVPR-18 OUTPUT DSN=x...x NOT FOUND

Messages Removed

The following WTO messages are removed this version. These messages typically are seen in the CA7ONL JES job log. If automation is taken for any of these messages, adjust the automation actions as needed.

CAL2F293 DDname xxxxxxxx DSN *datasetname* must be specified in the JCL

CAL2JR01E - CAL2JR84W (batch job rename). All are removed.

CA-7.BTMV VERIFY MACRO COMPLETED SUCCESSFULLY

CA-7.BTMV *xx yy tttttt* VSAM IDS [(OPEN)|(CLOSE)] ACB FAILURE

CA-7.DT62-05 VSAM PROCESSING ERROR RC=*xx* FDBK=*yyyy*

CA-7.IARE - ARF DATA BASE WILL NOT BE USED

CA-7.IARI - ARF DATA BASE IS NOW ONLINE

CA-7.INQ*ann* messages. All are removed.

CA-7.R901 ERROR DURING GENCB (EXLST) R15=*xx*

CA-7.R902 ERROR DURING GENCB(ACB) R15=*xx*

CA-7.R903 ERROR DURING OPEN RESOURCE FILE R15=*xx* ER=*aaa*

CA-7.907 DDNAME CA7RSRC POINTS TO DUMMY FILE - U0907

CA-7.RW103 MODCB ERROR

CA-7.RW105 ERROR ON VSAM MACRO

CA-7.RW904 RSRC FILE SUCCESSFULLY OPEN R15=*xx* ER=*yy*

CA-7.RW905 DDNAME CA7SRC NOT FOUND

CA-7.RW906 ERROR DURING GENCB (RPL) R15=*xx*

CA-7.TARI - ARF DATA BASE IS NOW OFFLINE

CA-7.TARI - ARF DATA BASE WAS NOT ONLINE

CA-7.TVRM-03 RESOURCE FILE SUCCESSFULLY CLOSED

CA-7.V005 *s mmmm (ddd)* VACB EYECATCHER NOT 'VACB'

CA-7.V007 *s mmmm (dddd)* VCPH EYECATCHER NOT 'VCPH'

CA-7.V008 *s mmmm (dddd)* VCRD EYECATCHER NOT 'VCRD'

CA-7.V009 *s mmmm (dddd)* VDCB EYECATCHER NOT 'VDCB'

CA-7.V010 *s mmmm (dddd)* VDGP EYECATCHER NOT 'VDGP'

CA-7.V011 *s mmmm (dddd)* VDTP EYECATCHER NOT 'VDTP'

CA-7.V013 *s mmmm (dddd)* VHDR EYECATCHER NOT 'VHDR'

CA-7.V014 *s mmmm (dddd)* VMSG EYECATCHER NOT 'VMSG'

CA-7.V018 *s mmmm (dddd)* VWCB EYECATCHER NOT 'VWCB'

CA-7.V019 *s mmmm (dddd)* VWRK EYECATCHER NOT 'VWRK'

CA-7.V102 *s mmmm (dddd)* CA-7 VSAM DATABASE NOT ON A DASD DEVICE

CA-7.V111 *s mmmm (dddd)* DYNALLOC

RX=xxxx,ERRCD=xxxx,INFOCD=xxxx,DSN=x...x
CA-7 VSAM DATABASE NOT ON A DASD
DEVICE

CA-7.V113 *s mmmm (dddd)* INVALID TYPE DEFINITION ON DBPARMS

CA-7.V114 *s mmmm (dddd)* DATASET HAS NO DATATYPES DEFINED

CA-7.V115 *s mmmm (dddd)* NON-TERMINAL DYNALLOC ERROR -
INFOCD=xxxx,DSN=x...x

CA-7.V116 *s mmmm (dddd)* CALLID SPECIFIED NOT USED EXCLUSIVELY FOR BACKUP
FUNCTION

CA-7.V122 *s mmmm (dddd)* DATATYPE REQUIRED FOR DATASET UNSPECIFIED

CA-7.V131 *s mmmm (dddd)* DATASET NOT VSAM, DSN=x...x

CA-7.V132 *s mmmm (dddd)* VSAM DATASET NOT INITIALIZED BY RELOAD, DSN=x...x

CA-7.V136 *s mmmm (dddd)* LIST CONNECTION SUCCESSFUL

CA-7.V137 *s mmmm (dddd)* ATTEMPTED TO CLOSE BACKUP DD WHEN NOT OPENED

CA-7.V139 *s mmmm (dddd)* VSAM DATABASE CLOSE FAILED

CA-7.V140 *s mmmm (dddd)* END-OF-DATA DETECTED ON BACKUP DD

CA-7.V143 *s mmmm (dddd)* VRCB SEARCH FAILED

CA-7.V150 *s mmmm (dddd)* VCTL TOO LARGE FOR BACKUP DD LRECL

CA-7.V152 *s mmmm (dddd)* ABEND *xxx-xx* DETECTED IN OPEN/CLOSE/EOV FOR BACKUP DD - *action*

CA-7.V154 *s mmmm (dddd)* RELEASE CALLED FOR RELOAD BEFORE EOD DETECTED

CA-7.V157 *s mmmm (dddd)* RELOAD ATTEMPTED W/O LOAD OR RELOAD ACCESS TYPE CONNECTED

CA-7.V159 *s mmmm (dddd)* RELOAD EOD LOGIC ERROR

CA-7.V160 *s mmmm (dddd)* NORMAL CONNECTION ATTEMPTED WITH DBTYPE NOT ALLVSAM

CA-7.V166 *s mmmm (dddd)* DBPARMS DDNAME IS *xxxxxxxxx-*

CA-7.V168 *s mmmm (dddd)* DBPARMS ERROR: IDCAMS CTL STMT SYNTAX ERROR

CA-7.V169 *s mmmm (dddd)* DBPARMS ERROR: PARAMETER ABSENT OR INVALID - *x...x*

CA-7.V170 *s mmmm (dddd)* DBPARMS ERROR: DDNAME PARAMETER NOT SPECIFIED WITH ALLOCJCL

CA-7.V171 *s mmmm (dddd)* DBPARMS ERROR: ALLOCDYN/ALLOCJCL PARAMETERS MUTUALLY EXCLUSIVE

CA-7.V172 *s mmmm (dddd)* DBPARMS ERROR: DATATYPES/STRINGS PARAMETERS INCOMPATIBLE

CA-7.V173 *s mmmm (dddd)* DBPARMS ERROR: ALLOCJCL SPECIFIED FOR DDN=*xxxxxxxx* BUT DSNAME CONFLICT EXISTS

CA-7.V176 *s mmmm (dddd)* CALLID *xxxxxxxx* ACCTYP=RELD REQUIRES TYPE=ADD/CAT/OUTP

CA-7.V180 *s mmmm (dddd)* TYPE=UPDT REQUIRES EXISTING VBUF/VRPL

CA-7.V186 *s mmmm (dddd)* EXISTING VBUF/VRPL NOT ALLOWED ON TYPE=ADD/CAT

CA-7.V208 *s mmmm (dddd)* REQUIRED DDNAME PARAMETER NOT SPECIFIED - DSN=*x...x*

CA-7.V214 *s mmmm (dddd)* VCTL TOO LARGE FOR VSAM LRECL - DSN=*x...x*

CA-7.V234 *s mmmm (dddd)* GET CALLED WITH RETTYP=DIR AND NO RECTYP VALUE FOR CALLID *xxxxxxxx*

CA-7.V235 s mmmm (dddd) GET CALLED WITH RETTYP=DIR AND NO KEYAD VALUE FOR CALLID xxxxxxxx

CA-7.V236 s mmmm (dddd) GET CALLED WITH RETTYP=DIR AND KEYAD VALUE IS LESS THAN SPACES FOR CALLID xxxxxx

CA-7.V238 s mmmm (dddd) GET CALLED WITH RETTYP=DIR AND PRECEDING RETTYP=FIRST/NODE NOT FOUND FOR CALLID xxxxxxxx

CA-7.V244 s mmmm (dddd) RETTYP=NEXT REQUESTED WHEN INITIAL RETTYP NOT SET UP, CALLID xxxxxxxx

CA-7.V250 s mmmm (dddd) LOGIC ERROR IN GET, OBTAIN VRPL WHEN VRPL ALREADY EXISTED FOR CALLID xxxxxxxx

CA-7.V251 s mmmm (dddd) LOGIC ERROR IN GET, GET RECORD WITHOUT A VRPL FOR CALLID xxxxxxxx

CA-7.V252 s mmmm (dddd) LOGIC ERROR IN GET, RELEASE VRPL WHEN VRPL DOES NOT EXIST FOR CALLID xxxxxxxx

CA-7.V259 s mmmm (dddd) RECRD/BLKAD PARAMETER NOT ALLOWED FOR TYPE = DELT/UNCT

CA-7.V260 s mmmm (dddd) CONTROL INTERVAL CONFLICT FOR CALLID = xxxxxxxx

CA-7.V261 s mmmm (dddd) BACKUP CONNECTION MADE TO DSN = x...x

CA-7.V262 s mmmm (dddd) RELOAD CONNECTION MADE TO DSN = x...x

CA-7.V263 s mmmm (dddd) NORM CONNECTION MADE TO DSN = x...x

CA-7.V264 s mmmm (dddd) NORMIN CONNECTION MADE TO DSN = x...x

CA-7.V265 s mmmm (dddd) CONNECTION COMPLETED SUCCESSFULLY

CA-7.V267 s mmmm (dddd) DISCONNECTION COMPLETED SUCCESSFULLY

CA-7.V274 s mmmm (dddd) RECORD ABOVE INVALID, DROPPED FROM BACKUP

CA-7.V275 s mmmm (dddd) BACKUP FORMAT INVALID (NO 'CNTL') - RECORD=x...x

CA-7.V276 s mmmm (dddd) DUPLICATE KEY DETECTED, RECORD DROPPED BY RELOAD

CA-7.V280 s mmmm (dddd) RECORD FAILED EDIT

CA-7.V281 s mmmm (dddd) REC='C'...'

CA-7.V282 s mmmm (dddd) REC='Z'...'

CA-7.V283 *s mmmm (dddd)* REC=N'...'

CA-7.V301 *s mmmm (dddd)* NO HITS ON ANY SPECIFIED AGENDA OPERATION

CA-7.V302 *s mmmm (dddd)* SPECIFIED PARAMETER LIST DID NOT BEGIN WITH 'PLST'

CA-7.V309 *s mmmm (dddd)* VPCB TO BE ASSIGNED ALREADY EXISTED

CA-7.V311 *s mmmm (dddd)* VPCB CHAIN INVALID

CA-7.V312 *s mmmm (dddd)* FIND PCB REQUESTED, BUT NOT FOUND

CA-7.V328 *s mmmm (dddd)* ERROR FOR MESSAGE *yyy s mmmm (dddd)*

CA-7.V501 *s mmmm (dddd)* HEADER OF SPECIFIED CELL POOL DAMAGED

CA-7.V502 *s mmmm (dddd)* CELL TO BE FREED WAS NOT ALLOCATED

CA-7.V505 *s mmmm (dddd)* INVALID CELL POOL ID

CA-7.V506 *s mmmm (dddd)* CELL POOL WITH ALLOC CELL(S) CANNOT BE FREED

CA-7.V508 *s mmmm (dddd)* CELL POOL FULL AND SECONDARY POOL EXTENT CANNOT BE OBTAINED

CA-7.V509 *s mmmm (dddd)* CPOOL GET MACRO FAILED

CA-7.V520 *s mmmm (dddd)* ECB ALLOCATED ABOVE 16MB LINE

CA-7.V527 *s mmmm (dddd)* REQUESTED SIZE OF CELL POOL EXTENT EXCEEDS 16 MBYTES

CA-7.V603 *s mmmm (dddd)* GENCB FOR xxx FAILED, DSN=x...x

CA-7.V604 *s mmmm (dddd)* SHOWCB FOR xxx FAILED, DSN=x...x

CA-7.V606 *s mmmm (dddd)* VSAM OPEN NON-TERMINAL ERROR, DSN=x...x

CA-7.V608 *s mmmm (dddd)* VSAM CLOSE FAILED, DSN=x...x

CA-7.V609 *s mmmm (dddd)* MODCB FOR xxx FAILED, DSN=x...x

CA-7.V610 *s mmmm (dddd)* IDCAMS ABENDED, [S/xxx | U/nnnn]

CA-7.V611 *s mmmm (dddd)* IDCAMS COMPLETED, RC=nnnn

CA-7.V612 *s mmmm (dddd)* IDCAMS *message text*

CA-7.V614 *s mmmm (dddd)* OUT OF SPACE ON VSAM PUT FOR DATA TYPE xxxx

CA-7.V615 s mmmm (dddd) VSAM ENDREQ FAILED, DSN=x...x

CA-7.V617 s mmmm (dddd) ATTACH MACRO FAILED FOR IDCAMS

CA-7.V618 s mmmm (dddd) SGETM MACRO FAILED

CA-7.V621 s mmmm (dddd) SBLDL MACRO FAILED FOR xxxxxxxx

CA-7.V624 s mmmm (dddd) ERASE RPL= NOT ACCEPTED FOR CALLID = xxxxxxxx

CA-7.V625 s mmmm (dddd) ERASE RPL= RETURNED VSAM ERROR FOR CALLID = xxxxxxxx

CA-7.V626 s mmmm (dddd) POINT RPL= RETURNED VSAM ERROR FOR CALLID = xxxxxxxx

CA-7.V627 s mmmm (dddd) PUT MACRO FAILED--LRECL TOO SMALL FOR VCTL ON BACKUP DD

CA-7.V628 s mmmm (dddd) OPEN FAILED FOR BACKUP DD

CA-7.V629 s mmmm (dddd) RDJFCB FAILED FOR BACKUP DD

CA-7.V630 s mmmm (dddd) BACKUP DD CLOSE FAILED

CA-7.V631 s mmmm (dddd) GET MACRO FAILED

CA-7.V632 s mmmm (dddd) DYNUNALLOC FAILED - RC=xxxx,ERRCD=xxxx, INFOCD=xxxx,DSN=x...x

CA-7.V633 s mmmm (dddd) NON-TERMINAL DYNUNALLOC ERROR - INFOCD=xxxx,DSN=x...x

CA-7.V635 s mmmm (dddd) I/O ERROR ABEND ON BACKUP DD - text

CA-7.V705 s mmmm (dddd) ERROR RETURNED FROM LOAD CONNECTION MODULE SASSV021

CA-7.V706 s mmmm (dddd) ERROR RETURNED FROM RELOAD CONNECTION MODULE SASSV022

CA-7.V707 s mmmm (dddd) ERROR RETURNED FROM NORMAL CONNECTION MODULE SASSV024

CA-7.V708 s mmmm (dddd) ERROR RETURNED FROM BACKUP CONNECTION MODULE SASSV023

CA-7.V709 s mmmm (dddd) ERROR RETURNED FROM SASSV021 ATTEMPTING TO OPEN BACKUP DD FOR OUTPUT

CA-7.V711 s *mmm* (*ddd*) ERROR RETURNED FROM SASSV020 ATTEMPTING TO RECONNECT ACCESS TYPE

CA-7.V714 s *mmm* (*ddd*) SVBACKUP FAILED DURING TERMINATION

CA-7.V716 s *mmm* (*ddd*) ERROR RETURNED FROM SASSV021 ATTEMPTING TO OPEN BACKUP DD FOR INPUT

CA-7.V717 s *mmm* (*ddd*) ERROR RETURNED FROM SASSV081 DURING SPECIAL LOAD

CA-7.V718 s *mmm* (*ddd*) ERROR RETURNED FROM SASSV028 IDCAMS INTERFACE MODULE

CA-7.V720 s *mmm* (*ddd*) ERROR RETURNED FROM SASSV029 VCTL PUT MODULE

CA-7.V722 s *mmm* (*ddd*) CALLID *xxxxxxxx* SVEXTPUT TYPE=DELT FAILED

CA-7.V807 s *mmm* (*ddd*) SVAGNRPL FAILED ON ASSIGN

CA-7.V808 s *mmm* (*ddd*) SVAGNRPL FAILED ON RELEASE

CA-7.V811 s *mmm* (*ddd*) TRANSFER INTERFACE (SASSVZ60) FAILED

CA-7.V815 s *mmm* (*ddd*) SVSEQCHK FAILED

CA-7.V903 s *mmm* (*ddd*) SVLOAD DID NOT FIND MODULE *xxxxxxxx*

CA-7.V906 s *mmm* (*ddd*) SVGETM FAILED GETTING WORKING STORAGE

CA-7.V911 s *mmm* (*ddd*) SVPUTM FAILURE RELEASING WORKING STORAGE

CA-7.V912 s *mmm* (*ddd*) SVPUTM FAILURE RELEASING DBPARMS DCB

CA-7.V918 s *mmm* (*ddd*) SVPUTM MACRO FAILED

CA-7.XRAC-04 SHOWCB ERROR

CA-7.XRAC-05 MODCB ERROR

CA-7.205 - OUT OF SPACE IN *xxxxxx* DATA SET

CA-7.206 PDS DATA BASE MUST BE SINGLE EXTENT, PLEASE REALLOCATE

CA-7.669 - DDNAME KEYWORD IS REQUIRED

CA-7.670 - DISP KEYWORD IS REQUIRED

CA-7.671 - DAIO STATEMENT MUST FOLLOW FORMAT STATEMENTS

CA-7.672 - Y, YES, N, NO, A, ALL ARE ONLY VALID VALUES

CA-7.942 – NUMBER OF STATIONS CANNOT BE CHANGED

CA-7.945 – STATION NAME CANNOT BE CHANGED

CDSI-22 DATASET DATASET CONTROL MEMBER FOUND BUT NOT REFORMATTED

CDSI-31 ALLVSAM ERROR ATTEMPTING INIT/CONN/DISCON/FINISH, RC=xxxx

CDSI-32 ALLVSAM ERROR ON DSDS, RC=xxxx

INWC-01 SASSINQB (QUEUE RELOAD) MODULE NOT FOUND

**SRC1-103 OUTPUT SCHEDULE MEMBER FOR NW= xxxxxxxx, DSNBR= SOvnnnnnn WITH
EXTRANEIOUS ID OF zzz**

**SRC1-104 OMITTED OUTPUT SCHEDULE ID OF zzz for NW=xxxxxxx,
DSNBR=SOnnnnnn**

Appendix B: Elements No Longer Distributed or Supported

Obsolete Elements

The following elements were distributed in prior releases of CA 7 but are not distributed with CA 7 Version 12.0.

Assembler Macros

\$ARFCHCK	CCILDSCT	LINKUSER	PARMRES
\$L2CP	CKPTREC	LOADUSER	PCHN
\$L2RDRCT	CLIO	L2CCIBUF	PQDRPARAM
\$L2RLOG	CLUPDT	L2CCICA	PRINT7
\$L2RSERL	COMDSTBL	L2CCICMD	PULLWORK
\$L2RVER	COMPRESS	L2CCILR	QGET
\$L2SSCT	CONVDEC	L2DAT	QIOPARMS
\$L2SYM	CONVHEX	L2DCON	QM10ENT
\$L2VER	DBMFOR	L2DRVA	QM10SCR
@ADAQPL	DBMHDR	L2DRVP	QM51LIST
@AIJCPL	DDB7	L2ENF	QRJPOUT
@AILEPL	DECBD	L2ENFP	Q20CHKBD
@AISCPL	DEUSER	L2ENFT	Q20EDIT
@ARF	DINTDATA	L2ENQ	RJPINPUT
@ARFST1	DIOCN	L2IMSG	RJPOUTPT
@AWK	DOPENL	L2IPAR	RJPOWORK
@DBMSEC	DRVNT	L2ISWA	RMSWORK
@RSRCCHA	DR99PARAM	L2RTN	RSJBREC
@RSRCPL	DVRAWRK	L2SCWKA	RSSTREC
@RSRCREC	DVRWORK	L2TC	RSTJBREC
@RSRCRPL	D32VPARM	L2THREAD	SALLOC
@RSRCSVT	EMCONVRT	L2TMSG	SASSCTBL
@RSRCUCT	EMGRWORK	L2TREQ	SASSDBVM
@WLPRSVT	FINDDDNM	L2XPSMFP	SASSECTL
BKRLPRMS	FMTBLK	MFBSTAT	SASSEPAS
BLDFFD	GDGD	MSGCNT	SASSERR
B2YRCAL	HIS8CTL	OSDELETE	SASSESWF
CAL2SCPG	HSWKAREA	OSLOAD	SASSHCOM
CA7MAP	IOBLKS	PARMGFRC	SASSHCTL

Assembler Macros

SASHTBL	SENG	SIODSLIO	SRDJFCB
SASSHWRK	SETPF3	SIODSMFO	SREAD
SASSKW	SFIND	SIODSPOO	SREN
SASSLDWA	SFREPDS	SIODSQMO	SREQLIST
SASSMDQT	SGB	SIODSRCO	SRPT
SASSMEKW	SGETDBD	SIODSYSO	SSCANWKA
SASSMFB	SGETDBJ	SIODUTLO	SSCB
SASSMUTX	SGETPDS	SIODXRFO	SSCR
SASSPFK	SICOMD	SIOPR	SSECUR
SASSSRD	SINDEXCHG	SISPFVB	SECX
SASSSWKD	SIODARFO	SIXTO8	SSFREE
SASSTOW	SIODAROO	SJCK	SSMXAREA
SASSTRN	SIODCMDS	SJWORK	SSNAP
SASSVAL	SIODDMPX	SLIOLDTM	SSPACE
SBLDG	SIODDUMP	SLOC	SSTOW
SBLDL	SIODEDTA	SLOCATE	STIOT
SCAT	SIODERST	SLOG	STRX
SCATLOG	SIODGFCO	SLOGMAP	SUNC
SCHDSTAB	SIODGMSG	SMDEF	SUPDPDS
SCLOSE	SIODHLP0	SNAT	SUPMSG
SCOMRD	SIODJCL0	SNDSECT	SU11MAP
SCOMWR	SIODMLR0	SNOTE	SU7SVC
SCONN	SIODMNUO	SNTIOT	SWRITE
SCRGET	SIODMSG0	SOBTAIN	SXCTL
SCRPRG	SIODPS00	SOPEN	TAT
SCRPUT	SIODRSCO	SOPENJ	TESTUTLO
SDASDSP	SIODSANO	SPOINT	TPJOBST
SDCONN	SIODSCM0	SPURGE	TST3270R
SDEQ	SIODSCNP	SPUTDBD	VARDSENT
SDETACH	SIODSCNO	SPUTDBJ	VSAMRCB
SDEVYTP	SIODSCOO	SPUTMSG	WORKDT20
SDLTX	SIODSCRJ	SPUTPDS	WORKDT30
SDMPX	SIODSDMO	SQADD	WP20WRKA
SECBDQ	SIODSFCO	SQDEL	WP50WORK
SECBEQ	SIODSFEO	SQFREE	WTOTRACE
SECHKUSR	SIODSJLO	SQREPL	
SEDITIO	SIODSJRO	SQGET	

Assembler Source

SASSIR11
 SASSQM51
 SASSRMS1
 SASSRMS2

User Exits Removed

The following user exits are no longer supported:

- SASSXXQB – MOVQ
- SASSXXQD – DMPQ
- SASSBCX1 – Batch Card Load Program
- SASSBK00 exits (multiple)

Features Removed

The following features are removed:

- Jobflow Illustrator Visio Option
- CA Common Product Services (CA CPS)
- SASSBK00 backup program
- UCC7DBVR database verification (see CAL2DBVR)
- APA Graph reports:
 - GRPHD: 0010 and 0020
 - GRPHS: 0780, 0790, 0800, 0810, 0820, 0900, 0901, 0910, 0911, 0912, 0913, 0920, 0921, 0922, 0923, 0930, 0931, 0932, 0933, 0940, 0941, 1110, and 1120
- Commands RQMT, TRIG, and XREF