

# CA 1<sup>®</sup> Tape Management

Release Notes

Release 12.6.00



Fifth Edition

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## CA1--CA Product References

This document references the following CA Technologies products:

- CA Mainframe Software Manager™ (CA MSM)
- CA 1® Tape Management (CA 1)

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# Chapter 1: New Features

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[TMSKEYAB Parameterization](#) (see page 8)

[SMFQ Catalog Update Subtask](#) (see page 8)

[Missing Operating System Intercepts \(OSI\) Detection](#) (see page 9)

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## TMSSECAB Parameterization

Previous releases of CA 1® Tape Management used the TMSSECAB customer-replaceable load module as a security table to replace the CA 1® Tape Management default security table.

TMSSECAB is being replaced by the CAI.CTAPOPTN TMOSECxx configuration member.

TMSSECAB remains the default CA 1® Tape Management security table until TMSINIT is processed with a TMOSECxx member that has at least one valid security table definition. This allows you to use TMSSECAB while transitioning to the TMOSECxx.

Changes to TMSSECAB are re-installed after the initial CAIRIM processing with an IPL. Any changes to the security table must be installed using TMSINIT and a TMOSECxx member.

If the CAI.CTAPOPTN security table member processed by TMSINIT contains at least one valid security table definition, those definitions are installed and replace the default or customer-provided TMSSECAB load module (or the last set of CAI.CTAPOPTN definitions installed).

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

## TMSKEYAB Parameterization

Previous releases of CA 1 used the TMSKEYAB customer-replaceable load module to do the following:

- Sub-divide the user-area (based on the TMMUSER macro) into sub-fields.
- Define each sub-field with a unique keyword name, length, and offset into the user area (accounting field).
- Optionally display the X and Y coordinates on the old TIQ online display.

The TMSKEYAB module could also be updated to do the following:

- Add user-written programs to the BATCH-ID table (so that updates to the TMC from user-written programs could be tracked).
- Add new robotic systems to the ROBOT-TYPE table.

Updates to TMSKEYAB are being replaced by the CAI.CTAPOPTN TMOKEYxx configuration member.

Changes to TMSKEYAB are re-installed after the initial CAIRIM processing with an IPL. Any changes to the keyword table must be installed using TMSINIT and a TMOKEYxx member.

If the CAI.CTAPOPTN keyword table member processed by TMSINIT contains at least one valid table definition, those definitions are installed and replace the default.

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

## SMFQ Catalog Update Subtask

If you process hundreds of tape jobs concurrently, you can use the new CTS SMFQ subtask to improve the performance of the TMC update processing for z/OS catalog events.

SMFQ uses an in-memory (ECSA) queue to process requests in the queue. This reduces RESERVE activity against the TMC and z/OS catalog.

**Note:** For more information about SMFQ, see the *Administration Guide*.



## Missing Operating System Intercepts (OSI) Detection

CA 1® Tape Management puts OSIs into the operating system by modifying Open/Close/EOV modules in LPA. These intercepts are page fixed to prevent their loss due to page refresh but are sometimes lost due to page free errors from other products and vendors. If the intercepts are missing, CA 1® Tape Management does not correctly process tape access or record all the information.

CA 1® Tape Management now runs a verification of all CA 1® Tape Management intercepts each time a tape is mounted for output. If any CA 1® Tape Management intercepts are missing the verification immediately alerts the data center with an error message.

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

## CA OPS/MVS System State Manager

CA 1 can automatically communicate active status events and heart beat events to CA OPS/MVS EMA. The communication is established through a generic active status or heartbeat event API call that CA OPS/MVS EMA provides. With this feature, other products can communicate events consistently to CA OPS/MVS EMA.

If CA 1 and CA OPS/MVS are active in the same z/OS image, CA 1 automatically communicates these automation events to CA OPS/MVS. By generating active status events CA 1 and other CA products communicate to CA OPS/MVS System State Manager (SSM) component when they are starting, up, stopping, or down.

CA 1 can use a heart-beat event to communicate normal, warning, or problem overall health status and reasons to CA OPS/MVS at regular intervals. CA OPS/MVS can react to the lack of a heart beat event from CA 1 as an indication that there is either a potential problem with CA 1 or there is a larger system-level problem taking place.

**Note:** For more information, see the *Administration Guide*.

## Health Checks

CA 1 is now integrated with the IBM Health Checker for z/OS through the CA Health Checker Common Service.

**Note:** For more information, see the appendix "CA 1 Health Checker" in the *Administration Guide*.

## New for Fifth Edition

While Release 12.6 already includes integration of the IBM Health Checker for z/OS through the CA Health Checker Common Service, we added the following new enhancements:

- We changed the default frequency of the Used DSNB Free Chain check to once a week, changed the exception interval to three hours, and added two new parameters.
- We created the Verify Security Profile check that warns when you do not set up your basic security to control access to tapes and commands.
- We created the Verify Security Profile check that protects against unauthorized access to tapes.

For more information, see the Health Checker Appendix in the *Administration Guide*. To download this enhancement, see the [Solution Document for RO59233](#).

## New Options in TMOOPTxx

Several new options have been added to the TMOOPTxx member of CAI.CTAPOPTN. These options allow you to do the following actions:

- Change the name of an exit to fit your internal naming standards.
- Tell CA 1 the name and which CA 1 exit it is related to.

The new options are XITA, XITB, XITC, XITD, XITE, XITF, XITJ, XITS, XITU, XCLN1, XCLN2, XCTLG, XCYCL, XECP, XOCAT, XTPNT, XTPPR, XVLT1, XSCR, and BYPASS.

### Notes:

- All options named UXxxxx in the TMOOPTxx of 11.5 or 12.0 have been renamed as Xxxxx for 12.6. Use the CTAOPT00 library in 12.6.
- For more information, see the *Programming Guide*.

## SMF Recovery Utility

The SMF Recovery Utility TMSSMF enables you to recover tape tracking data that is irretrievable when tapes are created without CA 1 being active. The TMSSMF utility uses SMF Type 14 (data set input) and Type 15 (data set output) records. The utility creates update transactions for the existing TMSUPDTE and TMSAGGR utilities. SMF must be active and set to record Type 14 (data set input) and Type 15 (data set output) records for the period when CA 1 is inactive. TMSSMF processes sequential files that the IBM IFASMFDP SMF dump utility or the IBM IFASMF DL dump utility creates.

This feature was added through maintenance after release 12.6.

**Note:** For more information, see the *Utilities and Reports Guide*.

## Volume Pool Monitor

The Volume Pool Monitor (VPM) is an optional method to monitor tape activity for pools of CA 1 managed tapes. VPM is implemented as a subtask of the Common Tape System (CTS) address space. VPM introduces several new components to CA 1. These components include:

- VPM subtask of CTS.
- A new VSAM KSDS Database, which is known as the VDB (VSAM Database). The database stores volume pools, variables, and alerts that you create.
- New ISPF panels that are implemented as a CTS submenu in ISPF. A new choice on the CA 1 Primary Option Menu **5** invokes the new CTS ISPF submenu. With these panels, you can create volume pools, variables, and alerts for processing by VPM.
- The ability to create customizable emails and WTOs from the VPM subtask or a new CTSMail utility program. Email text is saved in a new partitioned data set, the SEND data set.
- Volume pool history records with totals for active, scratch, and out of service tapes are created daily and weekly in the VDB.
- The CA GMI user interface has been updated to present the volume pools and pool history records. The interface provides trending capabilities that enable you to manage scratch tapes availability more efficiently.
- The daily utilities TMSCLEAN, TMSCOPY, and TMSVMUPD are updated to create variables that you can use to create emails or WTOs. For example, a variable is available to display the count of tapes scratched in the most current run of TMSCLEAN. This information could be sent to the tape librarian in a customized email.

The VPM subtask monitors tape activity to categorize tapes as being in Active, Scratch, and Out of Service status. The subtask maintains a total volume count for the volume pool with a separate count of never used volumes. The VPM subtask updates the volume pool records in the VDB on a user-controlled interval. You can view these records through either a command to the VPM subtask, the CTS ISPF interface, or CA GMI.

The VPM subtask provides quick management capabilities for scratch monitoring. You can also define alerts to notify various personnel through a customized email or a WTO. For example, you can send an email to the tape librarian when a volume pool has fewer than 500 scratch volumes available. The VPM subtask must be active to monitor the alert conditions and to trigger the email or WTO.

**Note:** For more information, see the *Administration Guide*, the *Programming Guide*, the *Utilities and Reports Guide*, and the *Overview Guide*.

## Unique RNAME Option for TMSXTEND

The TMSXTEND utility includes an option to use a new unique Resource Name (RNAME) when you perform an exclusive ENQ on the TMC and AUDIT files. This option helps when you use multiple TMCs across multiple LPARs when the LPARs operate as part of a MIM/Plex or GRS/Plex.

We also changed the processing so that TMSXTEND remains active until TMSRINIT completes on all LPARs and the TMC successfully updates on all LPARs.

The full DSNB free-chain only runs when you perform either an ADDDSNB function, or an REMDSNB function. This increases your performance and TMSXTEND runs faster by eliminating one of the counts reported by the TMSBLDVR subtask.

For more information or to download this enhancement, see the [Solution Document for RO63582](#).



# Chapter 2: Enhancements to Existing Features

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This section contains the following topics:

- [Expanded TMC Capacity](#) (see page 15)
- [Virtual WORM Support](#) (see page 16)
- [Read-only Subpools](#) (see page 16)
- [Audit Blockset Processing](#) (see page 17)
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- [Changes to Library Names](#) (see page 18)
- [Changes to USERMODS](#) (see page 19)
- [CA MSM](#) (see page 26)

## Expanded TMC Capacity

Users who require more than 16.9 million combined volume and DSNB records may now define the CA 1 Tape Management Catalog (TMC) as a Large Sequential data set (DSNTYPE=LARGE). When defined as DSNTYPE=LARGE, the capacity of the TMC is increased from the previous limit of 4,369 cylinders to support up to 46 million volumes and 100 million DSNBs.

The CA 1 Programs that use BDAM access routines to read and update TMC records have been changed to use EXCP instead of BDAM. If you implement the Large Sequential format TMC you must do the following:

- Reassemble any routines that access the TMC with the CAI.CTAPMAC macro library.
- Define a new TMC with the DSNTYPE=LARGE parameter and either copy the data using standard utilities or run the CA 1 TMSXTEND utility.

You can convert back to the old format TMC using these utilities if required as long as the number of records does not exceed the capacity of the old format.

**Note:** This feature is optional. We recommend that only sites nearing the current capacity limits should convert the TMC to Large Sequential format.

## Virtual WORM Support

IBM TS7720 and TS7740 virtual WORM cartridges (also named Logical WORM) are now supported.

When a cartridge is identified as logical WORM during open processing, CA 1 does the following:

- Turns on bit (x'04') of FLAG5 (TMVWORM).
- Saves the virtual WORM ID in the volume record.

The virtual WORM ID is accessed through the new VWWID keyword. The ISPF interface and reports which print the entire volume record continue using the existing WWID field for the new media.

Virtual WORMs can be externally managed by an EDM. They cannot be marked as cleaned. CA 1 scratches the tapes as they expire and clears the WORM information.

Scratched WORM tapes can be re-used as WORM or as non-WORM, depending on the data class being assigned.

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

## Read-only Subpools

You can now protect a volume or range of volumes from being written to by defining them to a READONLY subpool.

Volumes defined to a READONLY subpool are protected from the following:

Users cannot use a disposition of MOD to append to an existing data set.

- Existing data sets cannot be recreated.
- Secondary files cannot be added to a volume owned by this pool.
- Output processing is prevented.

Six new Not Scratch codes were added with this enhancement.

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



## Audit Blockset Processing

An optional new mode of performing updates to the CA 1 Audit file provides significant performance improvements. The mode is intended for customers with high tape-activity environments where the CA 1 TMC and Audit are shared between multiple systems.

Activation of this feature is accomplished by defining a new Audit data set with a control statement requesting "BLOCKSET" mode processing. All systems sharing the TMC and Audit are started with the maintenance applied (enabled by PTF on release 12.6) and the Audit is initialized with BLOCKSET mode. The routines accessing and updating the Audit file reserve blocks of Audit records for the systems sharing the TMC and Audit. Every update of an Audit record is written to DASD immediately but RESERVE activity is performed only when new blocks are assigned to a system. The functionality significantly reduces the RESERVE activity and number of IOs. If BLOCKSET mode is in use, a new "Control Record 5" is added to the Audit file. User-written programs accessing the Audit directly are examined for compatibility with BLOCKSET mode.

Only customers who initialize the Audit in BLOCKSET mode see differences in CA 1 processing.

**Note:** For more information, see the *CA 1 Utilities and Reports Guide*.

## Universal Audit Time

This feature uses a GMT/UTC timestamp for the audit fields in the TMC and Audit. The feature allows accurate auditing of LPARs running in multiple time zones. All other times continue to be recorded as local times and match values from the job log. All audit times are GMT/UTC. The entries in the audit file can be analyzed relative to the other LPARS. This feature also increases the precision of the times stored in the audit fields of the TMC and audit data set from HHMM to HHMMSSth.

This feature is active when the audit file is formatted in BLOCKSET mode. The BLOCKSET mode relies on the higher precision of the universal audit time for its high performance audit updates.

## Changes to Library Names

With the exception of the JCL library used to perform the RECEIVE, APPLY, and ACCEPT functions, all libraries are now SMP controlled. Changes to sample source, panel libraries, and parameters are made to copies in your own libraries and *not* directly in the SMP controlled libraries. Any updates made directly to the SMP controlled libraries (outside of an SMP USERMOD) are lost when maintenance is applied.

The target library names have changed. We recommend that you review the following table to determine the impact this may have to your installation:

Original Name	New Name	Description	Examples
CAI.CAISRC	<i>hlq</i> .CTAPECPB	EARL Copybooks	CTEARLCM, CTEARLCN
CAI.CAISRC	<i>hlq</i> .CTAPEZTM	Easytrieve Copybooks	CTEZTVCM, CTEZTVCN
CAI.CAISRC	<i>hlq</i> .CTAPEARL	EARL Source	CTE3495, TMEAUD01, TMECLN01
CAI.CAISRC	<i>hlq</i> .CTAPOPTN	Parameter Statements	CTOAGN00, CTOAIO00, TMOOPT00
CAI.CAISRC	<i>hlq</i> .CTAPSAMP	Sample ASM Source	TMSUX2A (now named TMSXITA), CTSUXEDM
CAI.CAIMAC	<i>hlq</i> .CTAPMAC	Assembler Macros	Assembler macros
CAI.CAICLIB	<i>hlq</i> .CTAPCLSO	ISPF Clist	TSOTIQ
CAI.CAICLIB	<i>hlq</i> .CTAPEXEC	REXX Exec	TI
CAI.CAIISPM	<i>hlq</i> .CTAPMENU	ISPF Messages	TMGDA00
CAI.CAIISPP	<i>hlq</i> .CTAPPENU	ISPF Panels	TMPI@PRI
CAI.CAIISPT	<i>hlq</i> .CTAPTENU	ISPF Tables	TMPHVDEN
CAI.CAILIB	<i>hlq</i> .CTAPLINK	Load Library	All CA 1 programs
CAI.CAIPROC	<i>hlq</i> .CTAPPROC	JCL Proc Library	TMSINIT

## Changes to USERMODS

CA 1® Tape Management Release 12.6.00 is enhanced to simplify product installation and customization.

The USERMODs to customize TMSKEYAB and TMSSECAB are replaced with new members in the CTAPOPTN parameter library (previously known as PPOPTION). The remaining USERMODs are provided to control user exit source. These USERMODs have been restructured and renamed to match the name of the exit they modify. For example, in Release 11.5 the TMSUX2A exit was installed by customizing members CL05201 and CL05201S to form the USERMOD CL05201 for TMSUX2A. In Release 12.6.00, user exit TMSUX2A is renamed to TMSXITA and the SMP/E JCL to customize TMSXITA is provided in the CTAPJCL library. A full sample of the source code for each exit is provided in CTAPSAMP.

Use the following process to customize TMSXITA:

1. Copy the source from CTAPSAMP to the appropriate place in member TMSXITA of CTAPSRC.
2. Change the source to meet your installation requirements. Follow the instructions provided in job TMSXITA.
3. Submit job TMSXITA job CTAPJCL to apply the changes to CTAPLINK (or IBM libraries in some cases) using SMP/E.
4. Specify the name of the exits to call in member TMOOPT00 of CTAPOPTN. For TMSXITA, change the following:

```
XITA  NONE
```

```
to
```

```
XITA  TMSXITA (or the name you selected for TMSXITA, such as
SYS1UXA)
```

We recommend that you review the reason for your use of each user exit. In some cases, functionality previously done through a user exit has been incorporated into the product itself. For example, Abend Retention was controlled through a global option (ABE) or a user exit. Abend Retention is now assigned on a file name or jobname basis using the Retention Data Set (RDS).

We recommend that you review the following table to determine the impact these changes may have to your installation:

Original Name	New Name	Elements	Description
CL05200	Obsolete	n/a	Replaced with options CONAME, COADDR, and COCITY.

<b>Original Name</b>	<b>New Name</b>	<b>Elements</b>	<b>Description</b>
CL05201	TMSXITA	TMSXITA (TMSUX2A)	Used to automatically bypass CA 1 real-time tape tracking without using EXPDT=98000 in the JCL. This exit is invoked at every tape OPEN, CLOSE and EOVS request, prior to the CA 1 non-label volser WTOR, after the non-label WTOR, and from the CA 1 label editor routine.  Update option XITA in TMOOPT00 to call this exit.
CL05202	TMSXITB	TMSXITB (TMSUX2B)	Establishes retention other than the assigned Abend Default Retention specified in the CA 1 option member TMOOPTxx (parameter ABE). This exit is optional because unique Abend retention values can be specified in the Retention Data Set (RDS) rules.  Update option XITB in TMOOPT00 for this exit to be called.
CL05203	TMSXITJ	TMSXITJ (TMSUX2J)	Captures accounting data specified in job or step statements in the JCL.  Update option XITJ in TMOOPT00 to call this exit.
CL05204	TMSXITC	TMSXITC (TMSUX2C)	Customizes the accounting information copied to the TMC records for secondary volumes.  Update option XITC in TMOOPT00 to call this exit.

Original Name	New Name	Elements	Description
CL05205	TMSXITE	TMSXITE (TMSUX2E)	<p>Converts internal numeric volume serial numbers to an external alphanumeric value. Use is not required if the TMSXTEND utility has been used to format the TMC.</p> <p>Update option XITE in TMOOPT00 to call this exit.</p>
CL05206	TMSXITL	TMSXITL (TMSUX2L)	<p>Specifically designates which tapes have external gummed labels created by TMSLBLPR.</p> <p>Update option XITL in TMOOPT00 to call this exit.</p>
CL05207	TMSXITS	TMSXITS (TMSUX2S)	<p>Used with the CA 1 external security interface. If used to supply a default CA 1 password; that process is now available as an option in CTAPOPTN member TMOOPT00.</p> <p>Update option XITS in TMOOPT00 to call this exit.</p>
CL05209	TMSXITU	TMSXITU (TMSUX2U)	<p>Converts external alphanumeric volume serial numbers to an internal numeric value. Use is not required if the TMSXTEND utility formatted the TMC or if the TMSVOLDF USERMOD is used.</p> <p>Update option XITU in TMOOPT00 to call this exit.</p>
CL05210	Obsolete	n/a	Changes the keyword tables.
CL05211	TMOSEC00	n/a	Use CTAPOPTN member TMOSEC00 to change the passwords (profiles) used by the ISPF interface to CA 1.

<b>Original Name</b>	<b>New Name</b>	<b>Elements</b>	<b>Description</b>
CL05212	CTSJUEDM	CTSUXEDM	Specifically defines data sets controlled by an External Data Manager (EDM).
CL05216	TMOKEY00	TMMUSER (optional)	Use CTAPOPTN member TMOKEY00 to define user accounting fields in the TMC volume record.
CL05219 / SMP3480	CTSJUMSG	IGXMSGEX / CTSMSGGLC	Displays the first eight characters of the scratch pool name on the 3480/3490 message display.
CL05220	Obsolete	n/a	Converts Version 4.x TMC to 5.2 format.
CL05222	TMSXITCO	TMSXITCO (TMSUXCO)	Modifies fields during conversion of data to TMC format or CA 1 control statements.  This exit is called by TMSCONVR.
CL05223	Obsolete	n/a	The master password is now set with the SHUTDWN option in TMOOPT00
CL05224	TMSXITD	TMSXITD (TMSUXID)	Converts system catalog data to TMC format during execution of TMSIDATA. Update option XITD in TMOOPT00 for this exit to be called.
CL05228	Obsolete	n/a	Use new option ROBSCR in member TMOOPT00 to notify robotic systems of scratch status.
CL05230	TMSXITF	TMSXITF (TMSUX2F)	Allows/disallows double opens and recreates.  Update option XITF in TMOOPT00 to call this exit.

Original Name	New Name	Elements	Description
CL05231	CTSJUX1G	CTSUX1G	Validates correct tape mounted for scratch sub-pool request, and reject a tape from being by Real-time Stacking.
CL05232	TMSXCLN1	TMSXCLN1	Modifies the expiration date and scratch status indicator, or bypass the TMC record update. This exit is only called by TMSCLEAN if the option XCLN1 is set to the exit name.
CL05233	TMSXCLN2	TMSXCLN2	Processes CA 1 Keyword USER/uuu dates. This exit is only called by TMSLCEAN if option XCLN2 is set to the exit name.
CL05234	TMSXCTLG	TMSXCTLG	Allows the expiration date and "expired by Catalog Control" indicator to be modified, or the TMC record update to be bypassed. This exit is only called by TMSCTLG if the option XCTLG is set to the exit name.
CL05235	TMSXCYCL	TMSXCYCL	Modifies the expiration date of bypass the TMC record update. This exit is only called by TMSCYCLE if the option XCYCL is set to the exit name.

Original Name	New Name	Elements	Description
CL05236	TMSXEXP	TMSXEXP	<p>Allows modification of the expiration date and eligible for RDS indicator of the TMC record update to be bypassed.</p> <p>This exit is only called by TMSEXPDT if the option XEXP is set to the exit name.</p>
CL05237	TMSXOCAT	TMSXOCAT	<p>Provides the TMC record selection for MVS catalog and TMC synchronization processing.</p> <p>This exit is only called by TMSOSCAT if the option XOCAT is set to the exit name.</p>
CL05238	TMSXTPNT	TMSXTPNT	<p>Allows the user to reject volumes for label processing, modify the TMC record prior to TMC update, and modify tape label information.</p> <p>This exit is only called by TMSTPNIT if option XTPNT is set to the exit name.</p>
CL05239	TMSXTPPR	TMSXTPPR	<p>Provides options to control the processing of tapes.</p> <p>This exit is only called by TMSTPPRO if the option XTPPR is set to the exit name.</p>
CL05240	TMSXVLT1	TMSXVLT1	<p>Provides for TMC record selection for Vault Management System processing.</p> <p>This exit is only called by TMSVMEDT if the option UXVLT1 is set to the exit name.</p>



Original Name	New Name	Elements	Description
CL05241	TMSVOLDF	TMSVOLDF	<p>Generates exit definitions for use with CA supplied user exits TMSXITU and TMSXITE. This is not needed if the TMC is reformatted with TMSXTEND.</p> <p>Set XITE and XITU in TMOOPT00 to call the exits.</p> <p>Release 12.6 is the last release to support this.</p>
CL05242	Obsolete	n/a	Defines output assignments for external tape labels.
CL05243	TMSXSCR	TMSXSCR	<p>Allows or disallows the scratch request and is called prior to updating any volumes and prior to updating any DSNBs. This exit is called for both a SCRATCH and a TEST request.</p> <p>This exit is only called by TMSSCR if the option XSCR is set to the exit name</p>
CL05244	CTSJUCBX	CBRUXENT, CBRUXEJC, and CBRUXVNL	<p>The CTSJUCBX USERMOD should be applied in your z/OS SMP zone to reassemble the modules; CBRUXENT, CBRUXEJC, and CBRUXVNL in SYS1.LINKLIB.</p> <p>Changed from CTSJUCBR and CTSJUCBX in r12.0 to CTSJUCBX in r12.6</p>
CL05245	Obsolete	n/a	Scratch notification to robotic devices is now done by setting the ROBSCR option in TMOOPT00.
SMPHSM / SMPHSM2	Obsolete	n/a	The ARCTVEXT exit is always distributed with CA 1.

Original Name	New Name	Elements	Description
SMPBTLS	CTSJUBTL	IDCLI04	Used to install the IBM BTLS exit to set the category for scratch tapes.

## Obsolete Members

The following Release 12.0 USERMOD and macros are now obsolete:

- CTSJUCBR—Use the CTSJUCBX member of CTAPJCL to assemble and link the modules into SYS1.LINKLIB.
- TMMSECAB—Use the TMOSEC00 member of CTAPOPTN to change the ISPF password profiles.
- TMMUSER—Use the TMOKEY00 member of CTAPOPTN to change the accounting fields in the TMC record.

## CA MSM

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

CA MSM 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:

- Role-based scenarios that detail steps to complete key business processes. These scenarios can appear in traditional guides and as standalone Knowledge Database articles on <http://ca.com/support>.
- 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 CA 1:

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