



# INCONTROL for z/OS 9.0.00 Installation Guide: Customizing



July 2015



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## Support website

You can obtain technical support from BMC 24 hours a day, 7 days a week at <http://www.bmc.com/support>. From this website, you can:

- Read overviews about support services and programs that BMC offers
- Find the most current information about BMC products
- Search a database for issues similar to yours and possible solutions
- Order or download product documentation
- Download products and maintenance
- Report an issue or ask a question
- Subscribe to receive proactive e-mail alerts when new product notices are released
- Find worldwide BMC support center locations and contact information, including e-mail addresses, fax numbers, and telephone numbers

## Support by telephone or e-mail

In the United States and Canada, if you need technical support and do not have access to the web, call 800 537 1813 or send an e-mail message to [customer\\_support@bmc.com](mailto:customer_support@bmc.com). (In the subject line, enter **SupID:<yourSupportContractID>**, such as SupID:12345). Outside the United States and Canada, contact your local support center for assistance.

## Before contacting BMC

Have the following information available so that Customer Support can begin working on your issue immediately:

- Product information
  - Product name
  - Product version (release number)
  - License number and password (trial or permanent)
- Operating system and environment information
  - Machine type
  - Operating system type, version, and service pack or other maintenance level such as PUT or PTF

- System hardware configuration
- Serial numbers
- Related software (database, application, and communication) including type, version, and service pack or maintenance level
- Sequence of events leading to the issue
- Commands and options that you used
- Messages received (and the time and date that you received them)
  - Product error messages
  - Messages from the operating system, such as `file system full`
  - Messages from related software

### **License key and password information**

If you have questions about your license key or password, contact BMC as follows:

- (USA or Canada) Contact the Order Services Password Team at 800 841 2031, or send an e-mail message to [ContractsPasswordAdministration@bmc.com](mailto:ContractsPasswordAdministration@bmc.com).
- (Europe, the Middle East, and Africa) Fax your questions to EMEA Contracts Administration at +31 20 354 8702, or send an e-mail message to [password@bmc.com](mailto:password@bmc.com).
- (Asia-Pacific) Contact your BMC sales representative or your local BMC office.

### **Third party Software**

For the provisions described in the BMC License Agreement and Order related to third party products or technologies included in the BMC Product, see <https://docs.bmc.com/docs/display/workloadautomation/Control-M+Workload+Automation+Documentation> and click **Third-party software (TPS)**.

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## About this guide

This customizing guide describes the procedures and steps required for customizing INCONTROL products.

## Conventions used in this guide

Notational conventions that may be used in this guide are explained below.

### Standard Keyboard Keys

Keys that appear on the standard keyboard are identified in boldface, for example, **Enter**, **Shift**, **Ctrl+S** (a key combination), or **Ctrl S** (a key sequence).

The commands, instructions, procedures, and syntax illustrated in this guide presume that the keyboards at your site are mapped in accordance with the EBCDIC character set. Certain special characters are referred to in this documentation, and you must ensure that your keyboard enables you to generate accurate EBCDIC hex codes. This is particularly true on keyboards that have been adapted to show local or national symbols. You should verify that

\$ is mapped to x'5B'

# is mapped to x'7B'

@ is mapped to x'7C'

If you have any questions about whether your keyboard is properly mapped, contact your system administrator.

### Preconfigured PFKeys

Many commands are preconfigured to specific keys or key combinations. This is particularly true with regard to numbered PF keys, or pairs of numbered PFKeys. For example, the END command is preconfigured to, and indicated as, PF03/PF15. To execute the END command, press either the **PF03** key or the **PF15** key.

Instructions to enter commands may include

- only the name of the command, such as, enter the END command
- only the PF keys, such as, press PF03/PF15
- or both, such as, press PF03/PF15, or enter the END command

### Command lines and option fields

Most screens contain a command line, which is primarily used to identify a single field where commands, or options, or both, are to be entered. These fields are usually designated COMMAND, but they are occasionally identified as COMMAND/OPT or COMMAND/OPTION.

Option field headings appear in many screens. These headings sometimes appear in the screen examples as OPTION, or OPT, or O.

## Names of Commands, Fields, Files, Functions, Jobs, Libraries, Members, Missions, Options, Parameters, Reports, Subparameters, and Users

The names of commands, fields, functions, jobs, libraries, members, missions, options, parameters, reports, subparameters, users, and most files, are shown in standard UPPERCASE font.

### User Entries

In situations where you are instructed to enter characters using the keyboard, the specific characters to be entered are shown in this UPPERCASE BOLD text, for example, type **EXITNAME**.

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## Syntax statements

In syntax, the following additional conventions apply:

- A vertical bar ( | ) separating items indicates that you must choose one item. In the following example, you would choose *a*, *b*, or *c*:  
  
a | b | c
- An ellipsis ( . . . ) indicates that you can repeat the preceding item or items as many times as necessary.
- Square brackets ( [ ] ) around an item indicate that the item is optional. If square brackets ( [ ] ) are around a group of items, this indicates that the item is optional, and you may choose to implement any single item in the group. Square brackets can open ( [ ) and close ( ] ) on the same line of text, or may begin on one line of text and end, with the choices being stacked, one or more lines later.
- Braces ( { } ) around a group of items indicates that the item is mandatory, and you must choose to implement a single item in the group. Braces can open ( { ) and close ( } ) on the same line of text, or may begin on one line of text and end, with the choices being stacked, one or more lines later.

## Screen characters

All syntax, operating system terms, and literal examples are presented in this typeface. This includes JCL calls, code examples, control statements, and system messages. Examples of this are:

- calls, such as  
`CALL 'CBLTDLI'`
- code examples, such as  
`FOR TABLE owner.name USE option, . . . ;`
- control statements, such as  
`//PRDSYSIN DD * USERLOAD PRD(2) PRINT`
- system messages, both stand-alone, such as You are not logged on to database `database_name`, and those embedded in text, such as the message You are not logged on to database `database_name`, are displayed on the screen.

## Variables

Variables are identified with *italic* text. Examples of this are:

- In syntax or message text, such as  
Specify database *database\_name*
- In regular text, such as  
replace database *database\_name1* with database *database\_name2* for the current session
- In a version number, such as  
EXTENDED BUFFER MANAGER for IMS 4.1.*xx*

## Special elements

This guide includes special elements called *notes* and *warnings*:

Notes provide additional information about the current subject.

Warnings alert you to situations that can cause problems, such as loss of data, if you do not follow instructions carefully.



# Customizing INCONTROL products with ICE

Once INCONTROL products are installed, they can be customized to meet the operational requirements of your site. Customization using the methods described below can be performed at any time after installation. BMC Software recommends that customization be performed using the Customization facility of the INCONTROL Installation and Customization Engine (ICE).

The CUSTOMIZE activity differs from other ICE activities. CUSTOMIZE does not require that major steps be performed in a fixed sequence. Each major step represents an independent customization task that can be performed separately.

Most CUSTOMIZE tasks require repeating some of the steps performed during the installation process. For example, CUSTOMIZE tasks may require changing parameter values or reallocating and formatting certain files.

The following customization steps are common to IOA and all INCONTROL products. These steps allow you to change the operational parameters of most products and to reformat the product repositories.

- xxxPARM Post-Installation
- Customize xxx Dataset Parameters

IOA Customization contains the following unique steps (described below)

- Profile Variables
- User EXITs Installation
- Customize IOA Defaults

The CUSTOMIZE steps support IOA and all INCONTROL products. Online help is available for each customization step by entering ? in the Value field.

## Optional steps

INSTALL IOA and INSTALL CTx include optional steps that can be skipped during the original installation and performed after the products are installed. Examples are installing the IOA Online monitor, installing IOA CICS support, and so on. These steps require data entry as well as implementation tasks such as creating the necessary load modules, or updating the members referenced by the running system.

## Performing customization

➤ **To initiate the customization process:**

1. In the ICE main menu, select Customization.
2. In the Environment selection screen, select the environment that you need to customize, and then press Enter.

The Customization screen is displayed:

**Figure 1: Customization screen**

```

----- Environment selection -----
OPTION  ==>                                SCROLL==> CSR
To begin/proceed with the Installation/Administration process
Sele +----- Customization -----+ 0
Acti | Environment Name ==> V700 |
     | Please choose the Product Id and the required process |
PF03 | Product: IOA          Enforce Step Order ==> NO (YES/NO) | d down
Acti | _ Product Customization      Customize product parameters | igin
---- | _ Security Customization      Customize Security parameters | D
===== | _ Password Customization      Customize Password parameters | =====
      | COMMAND ==> |
      +-----+
  
```

3. In the Product field, enter the 3-character ID code (IOA or CTx) for the product that you want to customize.
4. Select Product Customization, Security Customization, or Password Customization and then press Enter.

The Major Steps Selection screen is displayed. For example, if you specified IOA and selected Product Customization, you see the following:

```

----- Major Steps Selection -----
COMMAND ==>                                SCROLL ==> CSR
Environment: IOA900   Product: IOA
Sel values: S Select step      C Mark step as completed      R Reset status
            B Browse Step      X Mark step as excluded      ? Help
PF7/PF8   To scroll through all Steps
-----
      Sel Step Status      Opt Description
      === =====
      .      1              IOAPARM Post-Installation
      .      2              Customize IOA Dataset Parameters
      .      3              Profile Variables
      .      4              User EXITs Installation
      .      5              Customize IOA Defaults
      .      6              Y Install IOA CICS Support
      .      7              Y Install IOA IMS/DC Support
      .      8              Y Install IOA VTAM Support
      .      9              Y Install IOA COMPLETE Support
      .     10              Y Install IOA IDMS/DC Support
      .     11              Y Install IOA ROSCOE Support
      .     12              Y Install ISPF Support
  
```

In IOA, for example, you might need to change IOA parameters in the IOAPARM member or you might need to modify the Profile variables.

## Specifying general IP parameters in IOAPARM

The IOAPARM Post-Installation step enables you to specify values for the TCP/IP-related parameters, IPVMODE, ISOCKAPI, and ISTACK, which affect the following components:

- SNMP
- Immediate PC file transfers from online (Option U).
- Delayed PC file transfers by Control-D File Transfer Monitor.

The modified values are saved in the IP section of the IOAPARM member in the IOA.PARM library.

For more information about these parameters, see "General IP parameters" in the IOA administration chapter of the *INCONTROL for z/OS Administrator Guide*.

## Specifying IOA Shout facility parameters in IOAPARM

The IOAPARM Post-Installation step enables you to specify values for IOA Shout facility parameters. The modified values are saved in the IOAPARM member in the IOA.PARM library.

For more information about IOA Shout facility parameters, see the IOA administration chapter of the *INCONTROL for z/OS Administrator Guide*.

## Enabling zIIP processor usage

The IOAPARM Post-Installation step allows you to enable zIIP processor usage by specifying Y for the ZIIP parameter. The setting is saved in the IOAPARM member in the IOA.PARM library.

For more information about the ZIIP parameter, see the Control-D and Control-V chapter of the *INCONTROL for z/OS Administrator Guide*.

## Specifying profile variables

The Profile Variables step enables you to specify values for variables that determine processing options such as the use of extended color, the date format at your site, and so on. The modified values are saved in the \$PROFMOD member in the IOA.PARM library.

For more information about Profile variables, see the IOA administration chapter of the *INCONTROL for z/OS Administrator Guide*.

## Customizing user exits

This step allows you to customize IOA and INCONTROL user exits (source changes) and build the required SMP/E USERMOD to apply the exit. For more information about exits, see the Exits chapter of the *INCONTROL for z/OS Administrator Guide*.

## Customizing IOA defaults

This step allows you to customize IOA and INCONTROL defaults (also known as optional wishes). All defaults are in source format (compile and linkage not needed). Using this step, you can see the documentation and apply any wish. The values of the wishes you change are saved in the IOADFLTL member in IOA.PARM library.

## Installing National Language Support (NLS)

This step contains the following minor steps:

- Select additional language – enables you to choose the language or languages you want to install and the media that you are going to use for this installation.
- Apply the National Language Support – builds the NLSINST job in the IOA INSTWORK library. This job allocates the language libraries, adds SMP/E DDDEFs for the language target and distribution libraries, performs the RECEIVE operation for the language FMIDs and PTFs, which are located in the lang8000 member in the BASEPREF.NLSSUPP library, and runs the SMP/E APPLY and ACCEPT jobs for the language support.

Submit the job and verify that all steps ended with a completion code of 4. For detailed information see the *INCONTROL for z/OS Installation Guide: Installing*.

## Activating the customization

When you change the values of certain parameters, you must first take appropriate steps to activate the changes, before they can take effect. The tables that appear in the following sections include "Act" columns for those parameters that require activation steps. These steps are indicated by numbers in the Act column and the meaning of the numbers is shown in the following table.

**Table 1** Numbers of activation steps

Number	Activation steps
1	Shut down and then restart the Control-M monitor, or issue the Control-M NEWPARM monitor command. For more information—including parameters that are not refreshed by NEWPARM—see the <i>INCONTROL for z/OS Administrator Guide</i> section on dynamically refreshing Control-M parameters.
2	Exit and then reenter the IOA online environment.
3	Follow the steps for expanding the Control-M environment described in the <i>INCONTROL for z/OS Administrator Guide</i> .
4	Shut down and then restart the IOAGATE monitor.

## Performing additional customization

Some customization tasks may need to be performed partly within ICE and partly using other methods outside ICE. Other customization tasks may need to be performed completely outside of ICE.

Follow the detailed explanations provided in the *INCONTROL for z/OS Administrator Guide* or the relevant customized installation chapter in this guide.

## IOA file customization

### Expanding the IOA Condition File

The procedure for expanding the IOA Condition file (CND) described below is an integral part of ICE, ensuring that the procedure can be performed efficiently and expediently.

The expansion process performs the following operations:

- checks availability of the CND, ALTCND, and CNDJNL datasets involved in the process
- changes the necessary parameters through the data entry steps
- saves the parameters in the product libraries
- submits the EXPNDCND expansion job

EXPNDCND performs the following:

1. renames the existing files by adding the .OLD qualifier
2. allocates files with new space parameters
3. copies information from the .OLD files to the new files

#### ➤ To expand the IOA Condition file (CND), perform the following steps in ICE

1. Select Customization.
2. Select the environment that you need to customize.
3. Enter IOA in the Product field.
4. Select Product Customization.
5. Select major step 22, "Expanding IOA Condition File."
6. Perform minor step 1, "Stop all monitors and IOA activities."
7. Select minor step 2, "Specify CND parameters."
8. Select minor step 3, "Expand Condition File (CND)", either by marking the step with a "J" (to run the job automatically), or with an "S" (to run the job manually). Verify that the EXPNDCND job is marked COMPLETE (if it was run automatically using the J option) or that it ended with a completion code of 0 or 4 (if it was run manually using the S option).

WARNING: If the EXPANDCND job ends with a JCL error, the job must be re-submitted. However, to avoid loss of data, correct the cause of the error before re-submitting the job.

9. Perform minor step 4, "Activate all monitors."

# Customizing Control-M

## Control-M customization considerations

### Control-M parameter customization

CTMPARM is the Control-M source parameter member (located in the IOA.PARM library) that provides Control-M with installation parameters, as well as operational parameters.

This member may be maintained as a regular source member (for example, using the ISPF editor), or through ICE panels. BMC Software recommends you use ICE to update the member, reducing the risk of making mistakes, entering invalid values, and so on.

The member is divided into sections, each of which starts with the name of the section in column 1, followed by the parameters belonging to that section. For more information about the syntax of such source parameter member, see the "Performing a customized installation - common tasks" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.

The following table lists the parameters in the CTMPARM member alphabetically, with the section to which they belong, and the page in this chapter where they are described.

**Table 2 Parameters in the CTMPARM member**

Parameter	Section
#JNFMS	<a href="#">Spyer (status) subtask section</a> (on page 40)
#JNFRT	<a href="#">Spyer (status) subtask section</a> (on page 40)
#ONSPLOC	<a href="#">Submitter subtask section</a> (on page 34)
#SYSMS	<a href="#">Spyer (status) subtask section</a> (on page 40)
#SYSRT	<a href="#">Spyer (status) subtask section</a> (on page 40)
\$GDFREQU	<a href="#">Spyer (status) subtask section</a> (on page 40)
AECACHL	<a href="#">Submitter subtask section</a> (on page 34)
AJFSIZE	<a href="#">CKP section</a> (on page 24)
AJFTHRSH	<a href="#">CKP section</a> (on page 24)
APIMSTSO	<a href="#">Online section</a> (on page 50)
ARCHFBA	<a href="#">Archive Sysout section</a> (on page 49)

Parameter	Section
ARCPRI#	<a href="#">Archive Sysout section</a> (on page 49)
ARCRET	<a href="#">Archive Sysout section</a> (on page 49)
ARCSEC#	<a href="#">Archive Sysout section</a> (on page 49)
ARCSPCT	<a href="#">Archive Sysout section</a> (on page 49)
ARCUNIT	<a href="#">Archive Sysout section</a> (on page 49)
ARMELMNT	<a href="#">General (miscellaneous) section</a> (on page 57)
ATTSOEXT	<a href="#">Post Processing subtask section</a> (on page 45)
ATTSOTSZ	<a href="#">Post Processing subtask section</a> (on page 45)
ATTSYSOT	<a href="#">Post Processing subtask section</a> (on page 45)
AUTOTAPE	<a href="#">MONITOR section</a> (on page 20)
CALNFND	<a href="#">ORDER section</a> (on page 27)
CMEMREQ#	<a href="#">MONITOR section</a> (on page 20)
CNTERCMP	<a href="#">ORDER section</a> (on page 27)
CNTERCRD	<a href="#">ORDER section</a> (on page 27)
COPJS1ST	<a href="#">Spyer (status) subtask section</a> (on page 40)
COPMEM20	<a href="#">Post Processing subtask section</a> (on page 45)
CRSPREFX	<a href="#">Post Processing subtask section</a> (on page 45)
CTGFORC	<a href="#">ORDER section</a> (on page 27)
CTMPLEX	<a href="#">MONITOR section</a> (on page 20)
CTRB4INC	<a href="#">Submitter subtask section</a> (on page 34)
CYC2X15	<a href="#">Post Processing subtask section</a> (on page 45)
DAYTIMEM	<a href="#">NEW DAY section</a> (on page 25)
DBGMCS	<a href="#">MONITOR section</a> (on page 20)
DEFSTEP	<a href="#">Post Processing subtask section</a> (on page 45)

Parameter	Section
DELOVRER	<a href="#">Post Processing subtask section</a> (on page 45)
DELOVRUN	<a href="#">General (miscellaneous) section</a> (on page 57)
DOCUT	<a href="#">General (miscellaneous) section</a> (on page 57)
DUEINCHK	<a href="#">Selector subtask section</a> (on page 32)
DWNLDERR	<a href="#">CTMAS section</a> (on page 52)
EDITOURL	<a href="#">Online section</a> (on page 50)
EMPTYTBL	<a href="#">ORDER section</a> (on page 27)
EXCLURBC	<a href="#">ORDER section</a> (on page 27)
EMUSDLY	<a href="#">CTMAS section</a> (on page 52)
ENHNJE	<a href="#">Spyer (status) subtask section</a> (on page 40)
EXSTPRNG	<a href="#">Spyer (status) subtask section</a> (on page 40)
FORCE#RT	<a href="#">MONITOR section</a> (on page 20)
FORCE#WI	<a href="#">MONITOR section</a> (on page 20)
FORCERBC	<a href="#">ORDER section</a> (on page 27)
FORCETBL	<a href="#">ORDER section</a> (on page 27)
FRCOKOPT	<a href="#">Post Processing subtask section</a> (on page 45)
FREESPAC	<a href="#">ORDER section</a> (on page 27)
GDFORWRD	<a href="#">ORDER section</a> (on page 27)
HCDELAYT	<a href="#">HEALTH section</a> (on page 53)
HCHECKER	<a href="#">HEALTH section</a> (on page 53)
HCJDAYS	<a href="#">HEALTH section</a> (on page 53)
HCJINTRV	<a href="#">HEALTH section</a> (on page 53)
HCMINTRV	<a href="#">HEALTH section</a> (on page 53)
HCPINTRV	<a href="#">HEALTH section</a> (on page 53)



Parameter	Section
HCTINTRV	<a href="#">HEALTH section</a> (on page 53)
HIST	<a href="#">CKP section</a> (on page 24)
HLDCLAS	<a href="#">MONITOR section</a> (on page 20)
IGNDOSYS	<a href="#">Post Processing subtask section</a> (on page 45)
IGNIGD17	<a href="#">Post Processing subtask section</a> (on page 45)
IGNQTMGR	<a href="#">Selector subtask section</a> (on page 32)
INTERVALM	<a href="#">MONITOR section</a> (on page 20)
INUSE#RT	<a href="#">Submitter subtask section</a> (on page 34)
INUSE#WI	<a href="#">Submitter subtask section</a> (on page 34)
JNMATORD	<a href="#">Submitter subtask section</a> (on page 34)
JOBREJRC	<a href="#">ORDER section</a> (on page 27)
JRNL	<a href="#">CKP section</a> (on page 24)
JSCAN	<a href="#">General (miscellaneous) section</a> (on page 57)
LASTSTEP	<a href="#">Spyer (status) subtask section</a> (on page 40)
M622RC4	<a href="#">General (miscellaneous) section</a> (on page 57)
MAXACTIV	<a href="#">Selector subtask section</a> (on page 32)
MAXCCOK	<a href="#">Spyer (status) subtask section</a> (on page 40)
MAXJBHLD	<a href="#">MONITOR section</a> (on page 20)
MJES262W	<a href="#">Spyer (status) subtask section</a> (on page 40)
MSEL250I	<a href="#">Post Processing subtask section</a> (on page 45)
MSGCPRES	<a href="#">Submitter subtask section</a> (on page 34)
MULJESPP	<a href="#">Post Processing subtask section</a> (on page 45)
MULTISUB	<a href="#">Submitter subtask section</a> (on page 34)
MULTJOBS	<a href="#">Submitter subtask section</a> (on page 34)

Parameter	Section
MVBO	<a href="#">General (miscellaneous) section (on page 57)</a>
NEWDAY#W	<a href="#">NEW DAY section (on page 25)</a>
NEWDAYIM	<a href="#">NEW DAY section (on page 25)</a>
NOJOBRC4	<a href="#">ORDER section (on page 27)</a>
NONSWAPM	<a href="#">MONITOR section (on page 20)</a>
OVERJCLM	<a href="#">Submitter subtask section (on page 34)</a>
PFMINT	<a href="#">MONITOR section (on page 20)</a>
PFMSMF	<a href="#">MONITOR section (on page 20)</a>
PROCNAMM	<a href="#">NEW DAY section (on page 25)</a>
PRTCLAS	<a href="#">MONITOR section (on page 20)</a>
PSEUDOON	<a href="#">ORDER section (on page 27)</a>
QRSPREFX	<a href="#">Post Processing subtask section (on page 45)</a>
RBCMAXWT	<a href="#">Online section (on page 50)</a>
RECENA	<a href="#">RECOVERY section (on page 55)</a>
RECLEVEL	<a href="#">RECOVERY section (on page 55)</a>
RECLRQST	<a href="#">Submitter subtask section (on page 34)</a>
RELHLDJ	<a href="#">Submitter subtask section (on page 34)</a>
REPDELJ	<a href="#">NEW DAY section (on page 25)</a>
RESETORC	<a href="#">ORDER section (on page 27)</a>
SAPI	<a href="#">Spyer (status) subtask section (on page 40)</a>
SCHPREVD	<a href="#">Online section (on page 50)</a>
SDSB	<a href="#">Spyer (status) subtask section (on page 40)</a>
SCRECALL	<a href="#">Post Processing subtask section (on page 45)</a>
SPYWAIT	<a href="#">Spyer (status) subtask section (on page 40)</a>

Parameter	Section
STENT#	<a href="#">STATFILE section</a> (on page 52)
STIGNCPU	<a href="#">STATFILE section</a> (on page 52)
STOPORDR	<a href="#">ORDER section</a> (on page 27)
TBLDELJB	<a href="#">Spyer (status) subtask section</a> (on page 40)
TBLRECHK	<a href="#">Selector subtask section</a> (on page 32)

## Activating the customization

If you change the values of certain parameters, you must take appropriate steps to activate the changes you have made before they can take effect. These steps are indicated by numbers in the Act column of the tables of parameters. The meaning of the numbers is shown in the following table:

**Table 3** Numbers of activation steps

Number	Activation steps
1	Shut down and then restart the Control-M monitor, or issue the Control-M NEWPARM monitor command. For more information—including parameters that are not refreshed by NEWPARM—see the <i>INCONTROL for z/OS Administrator Guide</i> section on dynamically refreshing Control-M parameters.
2	Exit and then reenter the IOA online environment.
3	Follow the steps for expanding the Control-M environment described in the <i>INCONTROL for z/OS Administrator Guide</i> .
4	Shut down and then restart the IOAGATE monitor.

The following sections contain more detailed information about the individual parameters in the CTMPARM member.

## MONITOR section

This section contains parameters that affect the Control-M monitor.

**Table 4 Control-M monitor parameters**

Parameter (Wish No.)	Description	Act
AUTOTAPE (WM2744)	<p>This option enables Control-M tape drive resources to be automatically assigned, based on usage statistics, overriding tape drive resource allocations specified in the RESOURCE parameter of the job scheduling definition. If this option is not set, the statistics are not tracked.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M automatically tracks usage of and assigns Control-M tape drive resources.</li> <li>▪ N – Control-M does not automatically track usage of and assign Control-M tape drive resources. Default.</li> </ul> <p>For more information about the Automatic Tape Adjustment facility, see the Control-M chapter of the INCONTROL for z/OS Administrator Guide.</p>	1, 2
CMEMREQ#	<p>The maximum number of CMEM requests processed in each Control-M interval.</p> <p>When there is a very large number of CMEM requests, the overhead involved in processing them can cause the performance of Control-M to be seriously degraded to such an extent that Control-M cannot process any other work. You can use this parameter to limit the number of CMEM requests that Control-M will process in each Control-M interval, enabling all Control-M functions to continue to perform properly.</p> <ul style="list-style-type: none"> <li>▪ Valid values are: 0 through 99.</li> <li>▪ Default: 20</li> </ul>	1
CTMPLEX	<p>Whether to activate the CTMPLEX facility, that is, run the Control-M monitor in Sysplex mode.</p> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p> <p>If you change the value for this parameter from N to Y, you must also perform all the steps related to CTMPLEX to activate this change. This avoids unpredictable results.</p>	1

Parameter (Wish No.)	Description	Act
DBGMCS	<p>Whether to trace MCS \$GD commands.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – MCS \$GD commands are traced.</li> <li>▪ N (No) – MCS \$GD commands are not traced. Default.</li> </ul> <p>\$GD commands are the communication mechanism used by local and remote NJE nodes to obtain the statuses of NJE jobs. These commands are issued only when extended NJE tracking support is activated.</p> <p>The DBGMCS parameter enables the Control-M administrator to turn this display on or off. The following considerations are important:</p> <ul style="list-style-type: none"> <li>▪ Tracing MCS \$GD commands may involve high overhead.</li> <li>▪ When there are many NJE jobs, the console may be flooded with messages if the trace is active.</li> </ul> <p>BMC Software recommends that you set DBGMCS to Y only when requested to do so by BMC Software Customer Support.</p> <p>For more information about extended NJE tracking support, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
FORCE#RT (WM3233)	<p>The number of times Control-M retries a FORCEJOB or CONNECT DIRECT request that fails.</p> <p>This parameter is only effective if a positive value has been specified for the FORCE#WI parameter (described in this table).</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ 0 – Control-M continues to try to execute the request until it succeeds, or until the Control-M monitor terminates, whichever occurs first. Default.</li> <li>▪ nnn – Control-M continues to try to execute the request until it succeeds, or until nnn attempts have been made, or until the Control-M monitor terminates, whichever occurs first.</li> </ul>	1

Parameter (Wish No.)	Description	Act
FORCE#WI (WM3233)	<p>Whether Control-M retries a FORCEJOB or CONNECT DIRECT request that fails, and if so, the frequency of retries.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ 0 – Control-M does not retry to execute the request. Default.</li> <li>▪ nnn – Control-M continues to try to execute the request every nnn Control-M intervals.</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>▪ When the Control-M monitor shuts down, the queue of outstanding requests is lost. Therefore, on restarting after shutting down, Control-M does not resume retrying to execute outstanding requests.</li> <li>▪ In the case of a CONNECT DIRECT request, the FORCE#WI and FORCE#RT parameters only operate if both the following conditions are satisfied: <ul style="list-style-type: none"> <li>▪ no successfully triggered events were processed</li> <li>▪ a DATASET IN USE condition occurred during the execution of the request</li> </ul> </li> <li>▪ On the successful processing of a single triggered event, the CONNECT DIRECT request is considered complete, and is not retried.</li> </ul>	1
HLDCLAS	<p>The automatic held output class to which Control-M sends the MSGCLASS output of the job.</p> <p>For more information about the HLDCLAS parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
INTERVLM	<p>Sleeping interval of Control-M monitor.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1

Parameter (Wish No.)	Description	Act
MAXJBHLD (WM3254)	<p>The maximum number of jobs that are put into Held status by the Automatic Recovery feature</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum value: 255</li> <li>▪ Default: 1</li> </ul> <p>If you set a value for this parameter greater than zero and a subtask of a Control-M monitor job abends and message CTM114E is issued, the job is put into Held status and the CTM183E message is issued. If the number of jobs put into Held status after subtask abends is equal to the value set for this parameter, the job is not put into Held status, and the CTM184E message is issued.</p> <p>This parameter can be used together with IBM's ARM feature to automatically restart the Control-M monitor if it abends.</p>	1
NONSWAPM	<p>Whether to make the Control-M monitor non-swappable.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For full information on customizing this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
PFMINT	<p>Control-M performance data is accumulated and written to SMF at given time intervals. This parameter sets the time interval, in minutes, at which the SMF records are written. If the interval is set to 0 or 1440 then one SMF record is written during Control-M Newday processing.</p> <p>You can temporarily change this parameter using the Control-M PERFDATA command. The PFMINT parameter is reset to the value in the CTMPARM member when the Control-M monitor is restarted. For more information on the PERFDATA command, see the INCONTROL for z/OS Administrator Guide.</p> <ul style="list-style-type: none"> <li>▪ Valid Values: 0-1440</li> <li>▪ Default: 1440</li> </ul>	1

Parameter (Wish No.)	Description	Act
PFMSMF	<p>Specifies the SMF record type used for Control-M performance monitoring. Choose an SMF record type number which is not already in use at your installation. If the value is set to 0 no SMF records are created.</p> <ul style="list-style-type: none"> <li>▪ Valid Values: 0, 128-255</li> <li>▪ Default: 157</li> </ul>	1
PRTCLAS	<p>Output class to be dynamically changed on DD statements containing sysout parameters relating to jobs submitted by Control-M.</p> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1

## CKP section

This section contains database-related parameters.

**Table 5 Database-related parameters**

Parameter	Description	Act
AJFSIZE	<p>Maximum number of records in the Active Jobs file (AJF).</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For more information, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1, 2, 3
AJFTHRS (WM2095)	<p>Active Jobs file utilization threshold. When the threshold is reached, the Control-M Monitor starts informing the operator about Active Jobs file utilization.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 99%</li> <li>▪ Default: 90%</li> </ul>	1
HIST	<p>Whether to activate the History Jobs file option.</p> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1, 2, 3



Parameter	Description	Act
JRNL	Whether to activate the AJF Journaling option.  For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.	1, 3

## NEW DAY section

This section contains parameters that take effect during New Day processing.

**Table 6** New Day processing parameters

Parameter	Description	Act
DAYTIMEM	The start time of the work day at your site.  For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.	1
NEWDAY#W	After Control-M monitor issues the message "CTM113I Control-M MONITOR monitor name NEWDAY PROCESSING STARTED", it waits for a number of Control-M sleeping intervals (this parameter) for the New Day started task to start executing. If the New Day procedure does not start to execute, the "CTML03W NEW DAY PROCEDURE NOT DETECTED" message is issued, followed by the CTML06W REPLY 'R' FOR RESUME OR 'E' FOR END message.  For example, if the Control-M sleeping interval is 3 seconds, and the default value of 30 is used, the monitor waits 90 seconds for the Newday started task to start executing.  <ul style="list-style-type: none"> <li>▪ Default: 30</li> </ul> For more information, see the INCONTROL of z/OS Administrator Guide for details.	

Parameter	Description	Act
NEWDAYIM (WM3666)	<p>Whether to activate the New Day in memory facility. This shortens the New Day procedure by performing all compress processing using the monitor's copy of the AJF.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The New Day procedure does not read the AJF from DASD. The New Day procedure copies the AJF from the Control-M monitor's address space (using the cross- memory facility). After compressing the AJF, the New Day procedure copies the compressed AJF back to the Control-M monitor's address space. Default.</li> <li>▪ N – The New Day procedure and Control-M monitor always read the AJF from DASD.</li> </ul>	1
PROCNAMM	<p>Name of the Control-M New Day procedure, a started task that Control-M invokes once a day to perform New Day functions.</p> <p>If left blank, this parameter defaults to xxxTDAY, where xxx is the value of PROCPRFM.</p> <p>For more information, see the INCONTROL for z/OS Administrator Guide.</p>	1
REPDELJ (WM2478)	<p>Whether the New Day procedure should report about every job that is deleted from the Active Jobs file.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Every job that is deleted is reported.</li> <li>▪ N – The only jobs reported are those deleted because the time set by their MAXWAIT parameter has been exceeded. Default.</li> </ul> <p>Changes to this parameter take effect the next time the New Day Procedure is run.</p>	

## ORDER section

This section contains parameters that affect the ordering process.

**Table 7      Ordering process parameters**

Parameter	Description	Act
CALNFND (WM0738)	<p>Whether to stop the ordering process if a "Calendar Not Found" error occurs during the job ordering process.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Stop the ordering process if a Calendar Not Found error occurs.</li> <li>▪ N – Continue ordering the next job even if a Calendar Not Found error occurs. Default.</li> </ul>	1, 2
CNTERCMP (WM2517)	<p>Whether to continue ordering the next job if a Compress error occurs during the ordering process.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Activate this option.</li> <li>▪ N – Do not activate this option. Default.</li> </ul>	1, 2
CNTERCRD	<p>Whether to continue ordering if a Cards Error (Scheduling) occurs during the job ordering process, or if a job scheduling table (member) is not found.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Continue ordering the next job even if a cards error occurs or a job scheduling table cannot be found during ordering of a job.</li> <li>▪ N – Do not continue. Default.</li> </ul>	1, 2
CTGFORC (WM0983)	<p>The operation that should be performed when Control-M is to execute a Control-D Category as specified in D-CAT field.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Force Control-D Category. Default.</li> <li>▪ N – Order Control-D Category.</li> </ul>	1, 2

Parameter	Description	Act
EMPTYTBL	<p>Whether an empty SMART table, meaning a SMART Table Entity with no jobs, can be ordered.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – An empty SMART table can be ordered.</li> <li>▪ N – An empty SMART table cannot be ordered. Default.</li> </ul>	1,2
EXCLURBC	<p>Exclude RBCs are rule-based calendars that specify the days that jobs will NOT be ordered. To specify an Exclude RBC, an exclamation mark (!) must be added as a prefix when defining a Table level RBC, or as a prefix to the RBC name when referring to a Control-M (CTM) level RBC.</p> <p>Before turning the value of EXCLURBC from N to Y, the user must ensure that regular (Include) RBCs that are defined at the Table level and all RBCs defined at the CTM level do not have an "!" character prefix. For more information, see the <i>Control-M for z/OS User Guide</i>.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Any TABLE level RBC that is defined with a name starting with an "!" prefix, or any CTM level RBC that is referenced with "!" as the first character, is processed as an Exclude RBC.</li> <li>▪ N – All RBCs are processed as regular (Include) RBCs, even those that are defined or referenced with the "!" prefix. The "!" will be treated as a regular character. Default.</li> </ul>	2,4

Parameter	Description	Act
FORCERBC	<p>Whether, when forcing or ordering a job belonging to a SMART table, to insert a RBC value into the job definition on the AJF. Under normal circumstances, since the job is forced, the job definition would not contain a RBC value.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Sets a RBC value in the job definition according to the following criteria: <ul style="list-style-type: none"> <li>• If the job's scheduling definition refers to a rule-based calendar, the first of these calendars is used.</li> <li>• If the job's scheduling definition does not contain a rule-based calendar, the first scheduling calendar defined in the SMART Table Entity to which the job belongs is used.</li> <li>• If the job's scheduling definition refers to a rule-based calendar '*', the first scheduling calendar defined in the SMART Table Entity is used.</li> </ul> </li> <li>▪ N - Does not set any RBC value for the forced job. Default.</li> </ul> <p>Note: FORCERBC=Y forces the job to be ordered by its internal scheduling criteria, as opposed to by the criteria of the associated RBC.</p>	1,2
FORCETBL	<p>Whether, when the name specified in a FORCE command is the name of both a SMART table and a job within that SMART table, the SMART table is forced.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>The FORCE command can force both SMART tables and individual jobs, according to the following principles:</p> <ul style="list-style-type: none"> <li>▪ If a job is named in a FORCE command, that job is forced.</li> <li>▪ If a SMART table is named in a FORCE command, that SMART table is forced.</li> <li>▪ If the name specified in a FORCE command is the name of both a SMART table and a job within that SMART table <ul style="list-style-type: none"> <li>— when this parameter (FORCETBL) is set to N, which is the default, the job is forced</li> <li>— when this parameter (FORCETBL) is set to Y, the SMART table is forced</li> </ul> </li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The SMART table is forced.</li> <li>▪ N – The SMART table is not forced. Default.</li> </ul>	1,2

Parameter	Description	Act
FREESPAC (WM2047)	<p>An (optional) value that causes extra space in the Active Jobs file to be preserved for each and every job during the ordering process. This space can later be used by the Active Environment Zoom screen (Screen 3.Z) to add more data to the job.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 1024 (bytes)</li> <li>▪ Default: 150 (bytes)</li> </ul> <p>Exercise caution when setting the value for this parameter, since the size of the job may affect Control-M performance, and most importantly, may increase I/O time every time the job is to be read or written. On the other hand, you can use this parameter to reserve enough space to enable users to add more information to the job in the Active Environment Zoom screen (Screen 3.Z), such as IN Conditions, OUT Conditions, Shouts and Notes.</p>	1, 2
GDFORWRD	<p>Whether, when the TIME_ZONE parameter is set in a job definition and the New Day procedure runs, the current working day or the next working day is assigned to the job.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The next day is assigned as the working day of the job.</li> <li>▪ N – The current working day is assigned as the working day of the job. Default.</li> </ul> <p>For more information on the Time Zone feature, see the Control-M chapter of the INCONTROL for z/OS Administration Guide.</p>	1, 2
JOBREJRC	<p>When this parameter is set to Y, if one of the jobs is rejected by an exit (user or security exit), the ordering process terminates with RC=8.</p> <p>If the job is part of a SMART table, ordering the SMART table fails.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y - Activate feature as described above.</li> <li>▪ N - Return code is not changed and the SMART table is not cancelled if job is rejected by an exit. Default.</li> </ul>	

Parameter	Description	Act
NOJOBRC4	<p>The completion code returned when the ordering process results in no jobs being ordered.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The ordering process sets the return code to 4 when no jobs are ordered.</li> <li>▪ N – The ordering process sets the return code to 0 when no jobs are ordered. Default.</li> </ul>	1, 2
PSEUDOON	<p>Whether to globally change the Adjust Condition field in SMART Table Entity definitions.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Causes Control-M to treat any SMART Table Entity whose Adjust Condition field has the value of Y as though the field were specified with a value of D.</li> <li>▪ N – The value of the Adjust Condition field is not changed. Default.</li> </ul>	1,2
RESETORC	<p>Whether to reset the completion code to 0 when CNTERCRD=Y.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Reset the completion code to 0 when CNTERCRD=Y</li> <li>▪ N – Do not change the resulting completion code. Default.</li> </ul>	
STOPORDR (WM3333)	<p>The percentage threshold of used space in the Active Jobs file (AJF) at which Control-M does not allow additional jobs to be ordered.</p> <ul style="list-style-type: none"> <li>▪ Maximum: 99%</li> <li>▪ Default: 99%</li> </ul> <p>Specify 0 to disable this feature.</p>	1

## Selector subtask section

This section contains parameters that affect the Control-M Monitor during the Select phase.

**Table 8 Selector subtask parameters**

Parameter	Description	Act
DUEINCHK	<p>Whether to check the DUE-IN time of a job before selecting the job for submission.</p> <p>If a check is to be performed, that is, if the DUEINCHK parameter is set to Y, the job is not selected if, according to its average elapsed time, it will not finish before its DUE-OUT time.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Check DUE-OUT time of the job before selecting the job.</li> <li>▪ N – Do not check DUE-OUT time of the job. Default.</li> </ul>	1
IGNQTMGR (WM3392)	<p>Whether QUIESTIME commands are to affect both jobs and SMART tables, or only jobs.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – QUIESTIME affects only jobs.</li> <li>▪ N – QUIESTIME affects both jobs and SMART tables. Default</li> </ul> <p>For more information on QUIESTIME, see the description of setting a planned shutdown time in the Control-M chapter of the INCONTROL for z/OS Administrator Guide.</p>	
MAXACTIV (WM3668)	<p>Limits the number of active jobs in Control-M.</p> <ul style="list-style-type: none"> <li>▪ Valid values are: 0 through 999999</li> <li>▪ Default: 0 (no limitation)</li> </ul> <p>Use of this parameter is functionally equivalent to defining a quantitative resource, such as an Initiator resource, with a total quantity specified in the parameter's value, and assigning every Control-M job 1 unit of the resource. Using this parameter, rather than resources, lowers the Control-M monitor's computer utilization by decreasing the number of tracked Control-M jobs waiting in the JES input queue. See the section about the Control-M monitor and JES considerations in the INCONTROL for z/OS Administrator Guide for recommendations on how to use this parameter.</p> <p>This parameter does not consider SMART Table Entities, started tasks, NJE jobs, on-spool jobs, and dummy jobs as active jobs.</p>	1



Parameter	Description	Act
TBLRECHK (WM2699)	<p>Before selecting a job belonging to a Active SMART Table for submission, a decision must be made whether to re-check some of the SMART Table parameter. The decision is based on the TBLRECHK parameter.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ C – If any IN CONDITIONS defined in the SMART Table definition were added or deleted since the SMART Table became Active, then first rechecks all the run time criteria of the SMART Table before checking the job parameters. If any of the SMART Table run time criteria are not satisfied, then the SMART Table status is reset from Active to Wait Schedule, and none of jobs of this SMART TABLE will be eligible for running.</li> <li>▪ Y – The same as 'C' option. Exists for compatibility with previous versions.</li> <li>▪ T – Before selecting a job belonging to an Active SMART Table for submission, recheck the FROM TIME / UNTIL TIME limitations defined in the SMART Table definition. If these limitations are not satisfied, then do not select a job for submission. In any case (whether FROM TIME/UNTIL TIME limitations are satisfied or not), the SMART Table remains in Active status.</li> <li>▪ A – Works as 'C' and 'T' together. Such as if any IN CONDITIONS defined in the SMART Table definition were added or deleted, rechecks all run time criteria of the SMART Table (including FROM TIME/UNTIL TIME) and resets the status of the SMART Table back to Wait Schedule if any run time criteria are not satisfied. If no changes occurred with the IN CONDITIONS defined in the SMART Table definition, then rechecks only FROM TIME/UNTIL TIME limitations, defined in the SMART Table definition, and keeps the SMART Table in Active status even when the FROM TIME/UNTIL TIME limitations are not satisfied.</li> <li>▪ N – Do not check the SMART Table parameters once the SMART Table is active. The selection process of the jobs belonging to the Active SMART Table, only checks the job run time criteria. Default.</li> </ul>	1

## Submitter subtask section

This section contains parameters that affect Control-M Monitor during the Submit phase

**Table 9 Submitter subtask parameters**

Parameter	Description	Act
#ONSPLOC (WM0868)	<p>Number of attempts to locate an on-spool job before passing the job from the Submit subtask to the Status subtask.</p> <p>When an on-spool job is handled by the Submit subtask of Control-M, an attempt is made to locate it on spool in Hold status. If it is found in Hold status, Control-M first releases it, then passes it to the Status subtask. If it is not found in Hold status, the job is passed immediately to the Status subtask without releasing it.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 9999</li> <li>▪ Default: 5</li> </ul> <p>Note: Increasing this number may unnecessarily increase the time it takes for Control-M to determine the final status of the job that has disappeared. However, for NJE jobs or when products such as THRUPUT/MANAGER and WLM, that intervene in the submit process, are active, sometimes the job is under control of that product when Control-M tries and fails to locate the job (In held status). In such cases, Control-M may prematurely stop attempting to locate the job. If this occurs, BMC Software recommends that you increase the value for this parameter above the default value.</p>	1

Parameter	Description	Act
AECACHL	<p>Name of a partitioned data set member (PDS), pointed to by the DAGLOBAL DD statement in the Control-M monitor, which includes a list of AutoEdit Global members that are to be loaded into the AutoEdit Cache of the Control-M monitor.</p> <p>Using the AutoEdit cache dramatically improves Control-M monitor performance, by eliminating the need to read AutoEdit members for each and every job.</p> <p>By default, this parameter has no value, which means no AutoEdit caching is performed.</p> <p>A sample member can be found in the CACHLST member in the Control-M PARM member, which also contains instructions how to specify a list of the AutoEdit members that are to be loaded into the cache.</p> <p>As an alternative, you can name the PDS using the following modify command:</p> <pre>F CONTROLM ,AECACHE=RELOAD (member_name )</pre> <p>For more information about the Control-M AutoEdit Cache and about this modify command, see the Control-M chapter of the <i>INCONTROL for z/OS Administrator Guide</i>.</p>	1
CTRB4INC (WM2776)	<p>By default, Control-M inserts the Control-M/Restart (or Control-M/Analyzer) step immediately before the first EXEC or INCLUDE JCL statement.</p> <p>This parameter governs where Control-M inserts the Control-M/Restart (or Control-M/Analyzer) step when an INCLUDE JCL statement is found before the first EXEC JCL statement.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M inserts the Control-M/Restart (or Control-M/Analyzer) step before the first EXEC statement or before the INCLUDE statement if the INCLUDE statement precedes the first EXEC statement. Default.</li> <li>▪ N – Control-M always inserts the Control-M/Restart (or Control-M/Analyzer) step before the first EXEC statement.</li> </ul>	1

Parameter	Description	Act
INUSE#RT (WM2354)	<p>The number of job submission retries that should be attempted when the JCL member is in use.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values: 00 through 99</li> <li>▪ Default: 5</li> </ul> <p>INUSE#RT, in conjunction with the following parameter, INUSE#WI, takes effect in Control-M when the submission of a job fails because the JCL member is in use, either because the member is being edited, or because the partition data set is compressed. Control-M issues a message to the IOA Log that the job was not submitted, and assigns the job a status of NOTOK.</p>	1
JNMATORD	<p>Specifies whether Control-M predicts the JOBNAME during order time. Mandatory. Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y Control-M predicts the JOBNAME when the job is ordered.                Note that when the job is submitted, the JOBNAME might be updated to the actual job name assigned by JES.</li> <li>▪ N Control-M determines the JOBNAME when the job is submitted. Default.</li> </ul> <p>Selecting Y for the JNMATORD parameter, enables a Control-M/EM user to select the Job Name option for the EM Statistics field in the Control-M/Server configuration dialog box. Selecting the Job Name option for EM Statistics provides access for the ordered job to Control-M/EM job statistics based on the JOBNAME.</p>	1

Parameter	Description	Act
MSGCPRES	<p>Whether Control-M creates an additional copy of the JES SYSDATA file (JESDS) by adding appropriate OUTPUT statements to a job, or by changing its MSGCLASS to HLDCLAS.</p> <p>The option implemented by this parameter used to be implemented through the CTMX002O sample Submit Exit.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M adds the following two additional OUTPUT statements to the job:</li> </ul> <pre>//DEFAULT OUTPUT DEFAULT=YES,JESDS=* //JESDS OUTPUT JESDS=ALL,CLASS=hldclas</pre> <p>If the first INCLUDE JCL statement precedes the first EXEC statement in the job and the CTRB4INC parameter is set to Y (see CTRB4INC section), the statements are added before the first INCLUDE JCL statement. Otherwise, the statements are added before the first EXEC statement.</p> <p>Extra SYSDATA files for an additional job are created in the Control-M reserved held sysout class HLDCLAS, and the MSGCLASS of the original job remains unchanged.</p> <ul style="list-style-type: none"> <li>▪ N – Control-M changes the MSGCLASS of the job without adding any OUTPUT statements. Default.</li> </ul> <p>Setting this parameter to Y has the following advantages:</p> <ul style="list-style-type: none"> <li>▪ Performance under Control-M is better.</li> <li>▪ All sysout of the job pointed to by the expression SYSOUT=* remains under the original MSGCLASS; this eliminates the need to use sysout or DO SYSOUT functions to return it to the original MSGCLASS.</li> <li>▪ The additional SYSDATA files can be automatically deleted using any automation product, such as Control-O, or any equivalent product, asynchronous to Control-M.</li> <li>▪ The CTMX002O Submit Exit is unnecessary.</li> </ul> <p>However, if you use JES3 //*ROUTE XEQ statements to route NJE jobs, you must set this parameter to N, and use the CTMX002O sample Submit Exit if necessary.</p>	1

Parameter	Description	Act
MULTISUB (WM3625)	<p>Jobs submission buffering factor.</p> <ul style="list-style-type: none"> <li>▪ Valid values are: 0 through 128</li> <li>▪ Default: 0 (no buffering)</li> </ul> <p>Setting this parameter enhances the Control-M submission process by using the JES spool slice window more effectively. Jobs that have been prepared for submission are accumulated before writing them into the JES internal reader. The MULTISUB parameter specifies the number of jobs that are accumulated.</p> <p>For more information, see the JES2PARM Tuning Considerations section in the <i>INCONTROL for z/OS Administrator Guide</i>, Chapter 3 Control-M, Control-M Monitor and JES Considerations.</p>	1
MULTJOBS (WM1744)	<p>Whether Control-M submits to JES multiple jobs that exist in one JCL member.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Submit each job present in a JCL member.</li> <li>▪ N – Submit only the first job in a JCL member. Default.</li> </ul> <p>In both cases, Control-M handles only the first job. Even if it submits the subsequent jobs, it does not perform any follow-up nor post-processing on the second and subsequent jobs.</p>	1
OVERJCLM	<p>Whether values already set in the JCL of a job can be overwritten by values inserted in the following fields of the Control-M Job Scheduling Definition screen (Screen 2):</p> <ul style="list-style-type: none"> <li>▪ SCHENV</li> <li>▪ SYSTEM ID</li> <li>▪ NJE NODE</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Values already set in JCL are overwritten.</li> <li>▪ N – Values already set in JCL are not overwritten. Default.</li> <li>▪ Mandatory</li> </ul>	

Parameter	Description	Act
RECLQST	<p>Whether the Control-M monitor issues a DFSMSHSM RECALL request when accessing a migrated data set.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y - DFSMSHSM RECALL request issued. Default.</li> </ul> <p>The RECALL process runs asynchronously, allowing the Control-M monitor to continue submitting jobs simultaneously.</p> <ul style="list-style-type: none"> <li>▪ N - DFSMSHSM RECALL request not issued. The data set is automatically restored.</li> </ul> <p>The RECALL process takes place during the OPEN process of the data set. This causes the Control-M monitor to wait for RECALL processing to finish before continuing with any further work, which may adversely affect performance. Hence, N should be specified only if DFSMSHSM RECALL requests are not supported at the site.</p>	
RELHLDJ (WM1837)	<p>Whether Control-M should automatically release an on-spool job when it detects that the on-spool job is in Held status.</p> <p>As explained in the preceding parameter, #ONSPLOC, when an on-spool job is found in Held status, Control-M generally releases it before passing it to the Status subtask. However, some sites may choose to release the on-spool job manually.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M should release an on-spool job. Default.</li> <li>▪ N – Control-M should not release an on-spool job.</li> </ul>	1

## Spyer (status) subtask section

This section contains parameters that affect the Control-M Monitor during the Status phase.

**Table 10**      **Spyer (status) subtask parameters**

Parameter	Description	Act
\$GDFREQU (WM2333)	<p>Frequency of issuing \$G D commands to a remote NJE node when the enhanced NJE support in JES2 environment is active (the ENHNJE parameter is set to Y).</p> <p>The frequency is expressed in terms of Control-M intervals.</p> <p>Increasing the value of this parameter reduces the number of \$G D commands. However, this may result in the information available to Control-M as to the status of the job in a remote NJE node being less up-to-date. On the other hand, decreasing the value of the parameter may cause redundant overhead on Control-M and the NJE lines, so BMC Software recommends that you do not set the value too low.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 99, recommended only if all NJE jobs are long running jobs.</li> <li>▪ Default: 3, meaning that Control-M issues a \$G D command for an NJE job every three intervals.</li> </ul>	1
#JNFMS (WM1755)	<p>Frequency of issuing message SPY253E (JOB NOT FOUND IN QUEUE n TIMES) when an attempt to check the status of the job failed with an indication that the job was not found.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 999</li> <li>▪ Default: 5</li> </ul> <p>Increasing this number reduces the number of times SPY253E messages are issued. BMC Software recommends that you do this in cases where the setting of the #JNFRT parameter is high.</p>	1



Parameter	Description	Act
#JNFRT (WM1754)	<p>Number of attempts to locate a job on spool and check its status when the job is not found.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 999</li> <li>▪ Default: 10</li> </ul> <p>Increasing this number is recommended for cases where for some reason the job cannot be found on spool for long period of time, for example, an NJE job. On the other hand, increasing this number also delays the time until Control-M marks the job as Disappeared.</p>	1
#SYSMS (WM1764)	<p>Frequency of issuing message JES262W.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 999</li> <li>▪ Default: 5, meaning that the message is issued after every five failed attempts.</li> </ul> <p>Increasing this number causes fewer such messages to be issued, which is recommended if the number of retries, set by the preceding parameter, #SYSRT, is high.</p>	1
#SYSRT (WM0652)	<p>Number of attempts to read the sysout of a job when the sysout cannot be initially read by Control-M.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 999</li> <li>▪ Default: 20</li> </ul> <p>Increasing this number is recommended in cases where for some reason the sysout of a job cannot be read for a long period, for example when a big sysout of a job comes back from an NJE node.</p>	1
ENHNJE (WM1883)	<p>Whether the NJE support for JES2 is to be activated.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M in a JES2 environment opens an MCS Console, and during execution of NJE jobs sends Status requests (\$G D Command) to the remote node to check the status of the job. Default.</li> <li>▪ N – Control-M does not activate the NJE support.</li> </ul>	1

Parameter	Description	Act
EXSTPRNG (WM3407)	<p>Whether to exclude a range of steps, called the EXCLUDED STEP RANGE, in job scheduling definition statements. The EXCLUDED STEP RANGE includes all steps of a job, excluding the steps from one step to another.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The EXCLUDED STEP RANGE facility is activated. When EXSTPRNG=Y, a minus sign appears as the first character of the step, indicating that this is an excluded step range.</li> <li>▪ N – The EXCLUDED STEP RANGE facility is not activated. Default. When EXSTPRNG=N, any STEP RANGE, regardless of its name, is processed as a regular STEP RANGE (that is, the range of steps from one step to another).</li> </ul>	1
TBLDELJB	<p>Whether deletion of a job inside a SMART Table Entity before it ran (that is, in Wait Schedule status) causes the SMART Table Entity itself to end NOTOK.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ N – Control-M marks the SMART Table Entity as Ended NOTOK if a job in this SMART Table Entity has been deleted before execution. Default.</li> <li>▪ O – Control-M does not take into consideration the job that was deleted before execution when it marks how the SMART Table Entity has ended.</li> </ul>	1
LASTSTEP (WM3180)	<p>Whether to assign a special meaning to the \$LAST and \$FIRST job step names when they are specified in ON PGMST or STEP RANGE statements.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Treat \$LAST as the last executed job step, and treat \$FIRST as the first executed job step.</li> <li>▪ N – Assign no special meaning to \$LAST and \$FIRST. Default.</li> </ul>	1

Parameter	Description	Act
MAXCCOK (WM1473)	<p>Maximum condition code for Control-M to mark a job as ended OK.</p> <p>Every job that finishes with a condition code above the value specified in the MAXCCOK parameter is considered as ended NOTOK. BMC recommends that this value be set to either 0 or 4. Setting MAXCCOK to 4 indicates that jobs ending with warning conditions (a maximum RC of 4) are considered OK.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values: Up to 4 digits</li> <li>▪ Default: 0004</li> </ul>	1
MJES262W (WM0723)	<p>Whether Control-M writes the warning message JES262W ("UNSUCCESSFUL ATTEMPTS TO READ JOB DATA BY SUBSYSTEM REQUEST") to the IOA Log, in addition to issuing it to the operator.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M should write JES262W messages to the IOA Log.</li> <li>▪ N – Control-M should not write JES262W warning messages in the IOA Log. Default.</li> </ul> <p>BMC Software recommends that you set this parameter to the default N, since when JES is busy, the above message may be issued several times for many jobs, which in turn may fill the IOA Log with many such messages.</p>	1
SAPI	<p>Reserved parameter.</p> <p>Do not alter the default value (Y) set for this parameter unless instructed to do so by BMC Software Customer Support.</p>	1
SDSB	<p>Whether the IBM Spool Dataset Browse interface is used to read sysout data sets.</p> <p>This interface provides significant improvements in performance in a JES2 Sysplex environment with multiple systems sharing the same spool.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The IBM Spool Dataset Browse interface is used.</li> <li>▪ N – The IBM Spool Dataset Browse interface is not used. Default.</li> </ul>	1

Parameter	Description	Act
SPYWAIT (WM1765)	<p>Number of 1/100 seconds to wait in the SPY subtask when an attempt to locate a job on spool failed, and a retry is required.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 999 (almost 10 seconds)</li> <li>▪ Default: 100 (one second)</li> </ul> <p>Increasing this parameter above the value of the regular Control-M interval time, as set in the INTERVALM parameter, may dramatically affect the overall performance, and is not recommended in any case. When Control-M is busy, BMC Software recommends that you set this parameter to no more than one second, while when Control-M is less busy you may consider increasing it. The only disadvantage of using too low a number is that Control-M may retry too early, wasting computer time.</p>	1
COPJS1ST	<p>Controls the order in which the DO SYSOUT F statement copies the SYSOUT datasets of a job to a file.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The job's JES SYSOUT datasets (JESMSGLG, JESJCL, and JESYSMSG) are always copied first, regardless of the order in which JES writes the SYSOUT datasets to the spool.</li> <li>▪ N – The SYSOUT datasets are copied in the order in which they were written by JES. Default.</li> </ul>	1

## Post Processing subtask section

This section contains parameters that affect the Control-M Monitor during its Post Processing phase.

**Table 11 Post Processing subtask parameters**

Parameter	Description	Act
ATTSOEXT	File extension for SYSOUT sent by ONPGM ... DO MAIL parameter.	
ATTSOTSZ (WM3701)	<p>The maximum size in KB of the SYSOUT that is attached to email messages when ATTSYSOT=Y.</p> <ul style="list-style-type: none"> <li>▪ Maximum: 999999</li> <li>▪ Default: 5000</li> </ul> <p>When ATTSOTSZ=0, the size of the attachment is unlimited.</p> <p>If the size of a job's SYSOUT exceeds the value of the ATTSOTSZ parameter, the SYSOUT will not be attached to email messages that are sent for that job.</p>	1
ATTSYSOT (WM3701)	<p>Whether the SYSOUT of the job should be attached to email messages sent as a result of DO MAIL, DO SHOUT, or SHOUT statements.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The SYSOUT of the job is attached to all email messages that are sent as result of DO MAIL, DO SHOUT, or SHOUT statements.</li> <li>▪ N – The SYSOUT of the job is not attached to such email messages. Default.</li> </ul>	1
COPMEM20	<p>Whether the JCL member should be copied from the MEMLIB library to the OVERLIB library, when the job ends NOTOK. JCL members of cyclic or rerun jobs (using DO RERUN) may be copied only if CYC2X15 is set to Y (see the CYC2X15 parameter below).</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The JCL member is copied.</li> <li>▪ N – The JCL member is not copied. Default.</li> </ul>	1
CRSPREFX	When a job ends NOTOK and is holding a control resource whose prefix matches the corresponding parameter, this resource is not released by Control-M, and the job continues to hold it until it is rerun and ends OK, is FORCED OK, or is deleted through screen 3 or NEWDAY processing.	

Parameter	Description	Act
CYC2X15 (WM2322)	<p>Whether the Control-M monitor should call the CTMX015 job termination exit when a cyclic job ends, or either when a DO RERUN or RESTART is performed.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Job termination exit is called for each cycle termination of a cyclic jobs.</li> <li>▪ N – Job termination exit is not called when cyclic job ends. Default.</li> </ul>	1
DEFSTEP	<p>Activates the issuing of warning messages when a job step (or range of steps) referenced by the ON PGMST statement in the job definition does not match any step in the JCL of the job.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Issue warning messages when a job step (or range of steps) referenced by the ON PGMST statement in the job definition does not match any step in the JCL of the job.</li> </ul> <p>If at least one such the warning was issued for the job, the 'Post-Processing Failed' characteristic is added to job's status in Control-M.</p> <ul style="list-style-type: none"> <li>▪ N – Do not issue warning messages and do not add 'Post-Processing Failed' to job's status. Default.</li> </ul>	1
DELOVRER	<p>Whether the JCL member should be deleted from the OVERLIB library if the rerun of the job ended OK.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The JCL member is deleted.</li> <li>▪ N – The JCL member is not deleted. Default.</li> </ul>	1
DELOVRUN	<p>Whether the JCL member should be deleted from the OVERLIB library if any run of any job ended OK.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The JCL member is deleted.</li> <li>▪ N – The JCL member is not deleted. Default.</li> </ul>	1

Parameter	Description	Act
FRCOKOPT	<p>Whether the DO actions following codes of the form "ON PGMST ANYSTEP CODE OK" should be executed when a job is FORCED-OK.</p> <p>For further details on the operation of this parameter, see the discussion of the Force OK Confirmation window in the Control-M for z/OS User Guide.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – DO actions following "CODE OK" are executed when job is FORCED-OK.</li> <li>▪ N – Such DO actions are not executed. Default.</li> </ul>	1
IGNDOSYS (WM2998)	<p>Whether the Control-M Monitor should ignore SYSOUT or DO SYSOUT post-processing functions when reading of the SYSDATA of the job failed.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Ignore SYSOUT or DO SYSOUT post-processing functions when reading of the SYSDATA of the job failed.</li> <li>▪ N – Do not ignore SYSOUT and DO SYSOUT post-processing functions when the SYSDATA files of the job could not be read. Default.</li> </ul>	1
IGNIGD17 (WM3255)	<p>Whether the Control-M monitor should treat the IGD170011 and IGD171011 messages as NCT2 (Not Cataloged 2) conditions.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The Control-M monitor does not treat the IGD170011 and IGD171011 messages as NCT2 conditions.</li> <li>▪ N – The Control-M monitor treats the IGD170011 and IGD171011 messages as NCT2 (Not Cataloged 2) conditions. Default.</li> </ul>	1

Parameter	Description	Act
MSEL250I (WM1520)	<p>Whether the Control-M monitor should issue the SEL250I message (CONDITION cond_name {DELETED   ADDED}: OID=orderid, RUNNUMBER=run_num) when it adds or delete a condition on behalf of a job due to an OUT or DO COND statement.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M issues the SEL250I message for each condition it adds on behalf of a job.</li> <li>▪ N – No SEL250I message is issued. Default.</li> </ul> <p>For backward compatibility, the default value of this parameter is N. However, BMC Software recommends that you set it to Y, which logs all condition activity in the IOA Log, thus enabling you to trace the addition and deletion of conditions if necessary.</p>	1
MULJESPP	<p>Whether Control-M post-processes NJE jobs that were executed on both JES2 and JES3 systems.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M post-processes jobs that were executed on both JES2 and JES3 systems.</li> <li>▪ N – Control-M does not post-process jobs that were executed on both JES2 and JES3 systems. Default.</li> </ul>	1
QRSUFFIX	<p>When a job ends NOTOK and is holding a quantitative resource whose prefix matches the corresponding parameter, this resource is not released by Control-M, and the job continues to hold it until it is rerun and ends OK, is FORCED OK, or is deleted through screen 3 or NEWDAY processing.</p>	
SCRECALL (WM2998)	<p>Whether a migrated scheduling library is recalled during the processing of a DO FORCEJOB request.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The scheduling table is recalled, and Control-M tries to reorder the job in the same way as if the scheduling table is in use (see parameters FORCE#RT and FORCE#WI in the <a href="#">MONITOR section</a> (on page 20)).</li> <li>▪ N – The scheduling table is not recalled, and the job is not scheduled. Default.</li> </ul>	1



Parameter	Description	Act
VSYSOLIM (WM3700)	<p>Maximum SYSOUT size (in KB) that can be viewed in Control-M/EM. If an Control-M/EM user attempts to view a SYSOUT that is larger than the VSYSOLIM value, the SYSOUT is truncated.</p> <ul style="list-style-type: none"> <li>▪ Maximum: 999999</li> <li>▪ Default: 0. The SYSOUT size is not limited.</li> </ul>	4

## Archive Sysout section

This section contains parameters that affect the Control-M Monitor during Sysout Archiving post processing.

Sysout Archive Allocation Attributes: The ARCUNIT, ARCSPCT, ARCPRI# and ARCSEC# parameters control the sysout archive data set allocations. The sysout archive is associated with the DO SYSOUT F command. Whenever the Control-M monitor activates a sysout archiving request, an archive data set is allocated using the following allocation parameters:

UNIT=arcunit,SPACE=(arcspct,(arcpri#,arcsec#),RLSE)

The use of the RLSE parameter causes Control-M to release unused space at the end of the archiving function.

**Table 12** Archive Sysout parameters

Parameter	Description	Act
ARCHFBA	<p>Whether to create the Archive file with FBA or FB record format.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
ARCPRI#	<p>Non-zero primary allocation size for the sysout archive data set.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
ARCRET	<p>Archive retention period in days.</p> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1

Parameter	Description	Act
ARCSEC#	<p>Secondary allocation size for the sysout archive data set.</p> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
ARCSPCT	<p>Allocation type for the sysout archive data set.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1
ARCUNIT	<p>Unit name for the sysout archive data set.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For full information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	1

## Online section

This section contains parameters that affect various parts of the Control-M Online facility.

**Table 13 Online parameters**

Parameter	Description	Act
APIMSTSO	<p>Whether to suppress messages from the CTMAPI utility when it is invoked under TSO.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Suppress messages from the CTMAPI utility.</li> <li>▪ N – Do not suppress messages from the CTMAPI utility. Default.</li> </ul>	

Parameter	Description	Act
EDITOVR (WM2004)	<p>Where a JCL Edit request is to be performed (from Control-M/Enterprise Manager only).</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Save the JCL Edit from Control-M/Enterprise Manager in the OVERLIB library.</li> <li>▪ N – Save JCL Edit from Control-M/Enterprise Manager in the library from which it was read. For example, if the JCL member exists in the OVERLIB library, the JCL is saved in the OVERLIB library. Otherwise, it is saved in the MEMLIB library. Default.</li> </ul>	2
SCHPREVD (WM1350)	<p>Whether the SAC parameter in the job/SMART table definition, which is used for conversion only, is active.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – SAC is active.</li> <li>▪ N – SAC is not active. Default.</li> </ul>	1, 2
RBCMAXWT (WM2890)	<p>For a job belonging to a SMART table, from which job to take the MAXWAIT value.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – MAXWAIT of the job is taken from the RBC that caused the job to be ordered. Default.</li> <li>▪ N – MAXWAIT of the job is always taken from the MAXWAIT parameter of the job.</li> </ul>	1, 2

## STATFILE section

This section contains parameters that are used to customize the statistical database.

**Table 14 STATFILE parameters**

Parameter	Description	Act
STENT#	<p>The maximum number of job occurrences that can be accumulated into a Statistics file job record.</p> <ul style="list-style-type: none"> <li>▪ Valid values are: 20-200</li> <li>▪ Default: 20</li> </ul> <p>Warning: Changing this parameter to a lower value after the Statistics file is already in use may cause the statistics for the most recent job occurrences to be lost.</p>	1, 2
STIGNCPU	<p>Whether the ID of the computer on which a job was run should be considered as part the Statistics file record key or not.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ N – The CPUID should be considered as part of the Statistics file record key. If a job runs on several different computers, then multiple statistics records will be created for this job, one for each computer. Default.</li> <li>▪ Y – The CPUID should not be considered as part of the Statistics file record key. All job executions, regardless of the computer on which they ran, will be accumulated on a single statistics record.</li> </ul>	2

## CTMAS section

This section contains parameters that are used to customize the Control-M Application Server (CTMAS).

**Table 15 CTMAS parameters**

Parameter	Description	Act
DWNLDERR	<p>Action to be taken when the Control-M Application Server (CTMAS) encounters an error during the download process.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ EMX – Log the event in the IOA log file and exclude the problematic job from the next download. Default.</li> <li>▪ LOG – Log the event in the IOA log file.</li> </ul>	

Parameter	Description	Act
EMUSDLY	<p>Whether the Control-M User Daily database will be updated with the User Daily name specified when uploading a table from the Control-M/Enterprise Manager.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Update the Control-M User Daily database. Default.</li> </ul> <p>Note: Either the Control-M/Event Manager or Control-O must be active if the EMUSDLY parameter is set to Y.</p> <ul style="list-style-type: none"> <li>▪ N – Do Not update the Control-M User Daily database.</li> </ul>	

## HEALTH section

This section contains parameters that control the Health Checker tasks in the Control-M monitor.

**Table 16 Health Checker parameters**

Parameter	Description	Act
HCDELAYT	<p>This parameter specifies the minimum time interval in seconds, interpreted as a "process delay" in the Control-M Health Checker. If this parameter is set to 0 the report is not produced.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values are 0-999</li> <li>▪ Default: 030</li> </ul>	
HCHECKER	<p>Whether Control-M monitor should use the Health Checker interface to communicate with IBM Health Checker.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y - Health Checker interface is enabled. Control-M monitor will communicate with IBM Health Checker. Default.</li> <li>▪ N - Health Checker interface is disabled. Control-M monitor will not communicate with IBM Health Checker.</li> </ul>	1

Parameter	Description	Act
HCJDAYS	<p>The number of days which defines a job as "dormant."</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values: 1-999</li> <li>▪ Default: 365</li> </ul>	1
HCJINTRV	<p>The interval of time, in hours, between checks of the "dormant" jobs in the Active Jobs file. Dormant jobs have been sitting in the Active Jobs file for more than the specified days in the HCJDAYS parameter.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values: 0-999</li> <li>▪ Default: 24</li> </ul>	1
HCMINTRV	<p>The interval of time, in minutes, between parameter checks. Each check verifies that the parameter values in the CTMPARM member in the IOA PARM library are the same as the CTMPARM settings currently in memory.</p> <p>If this parameter is set to 0 the check is not processed.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values are 0-999</li> <li>▪ Default: 30</li> </ul>	1
HCPINTRV	<p>The interval of time, in minutes, between checks for job processing delays. An exception message is produced based on internal tables, maintained by the various Control-M subtasks (such as submitter, selector, and spyer), which determines whether a job being processed by these components is experiencing excessive delays. These delays could indicate a job is not responding (hang condition).</p> <p>If this parameter is set to 0 the check is not processed.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values are 0-999</li> <li>▪ Default: 1</li> </ul>	1

Parameter	Description	Act
HCTINTRV	<p>The interval of time, in minutes, between checks of the status of the Active Jobs file. An exception message is produced when the entries as a percentage of the maximum allowed, exceeds the threshold defined in the AJFTHRSR parameter (For more information, see <a href="#">CKP section</a> (on page 24)).</p> <p>If this parameter is set to 0 the report is not produced.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values are 0-999</li> <li>▪ Default: 1</li> </ul>	1

## RECOVERY section

This section contains parameters that control Recovery Mode processing.

**Table 17 Recovery Mode processing parameters**

Parameter	Description	Act
RECENA	<p>Activates or disables the Recovery Mode processing.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y—Activate the Recovery Mode if the Control-M monitor terminates abnormally. Default</li> <li>▪ N—Do not activate the Recovery Mode if the Control-M monitor terminates abnormally.</li> </ul> <p>If RECENA=Y(ES), duplicate submissions and DO FORCEJOB processing are prevented, regardless of the RECLEVEL value. The parameter can be changed dynamically by NEWPARAM without stopping or starting the Control-M monitor.</p> <p>For more information on this parameter, see the <i>INCONTROL for z/OS Administrator Guide</i>.</p>	1

Parameter	Description	Act
RECLEVEL	<p>Automation level of recovery processing. The higher the level, the more precise the diagnostics are by the Recovery Mode processing, but the more likely there might be a performance impact on Control-M processing. The lower the level, the more minimal the performance impact on Control-M processing, but the more likely there might be an increase in the number of jobs put into HOLD status requiring customer analysis. The default (RECLEVEL=0) has no performance impact on Control-M processing, but requires the most customer analysis.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ 0—Lowest automation level of recovery processing. Default</li> <li>▪ 1—Intermediate automation level of recovery processing.</li> <li>▪ 2—Highest automation level of recovery processing.</li> </ul> <p>The parameter can be changed dynamically by NEWPARAM without stopping or starting the Control-M monitor.</p> <p>The RECLEVEL parameter setting must not be changed between the time that Control-M terminates abnormally and the time that Control-M restarts (and the corresponding Recovery Mode processing begins). Changing the setting during this period might interfere with the Recovery Mode processing, resulting in the failure to prevent duplicate submissions or DO FORCEJOB processing. For more information on this parameter, see the INCONTROL for z/OS Administrator Guide.</p>	1



## General (miscellaneous) section

This section contains general parameters.

**Table 18 General (miscellaneous) parameters**

Parameter	Description	Act
ARMELMNT	<p>The name that represents Control-M as an element of automatic restart management (ARM).</p> <p>When this parameter is enabled, the operating system automatically restarts Control-M after an unexpected failure, using ARM.</p> <p>When specifying an element name, apply the following rules:</p> <ul style="list-style-type: none"> <li>▪ The name can be from 1 through 12 characters. Control-M appends to this name the 4-character system identifier on which the element originally registered, which makes this name unique across the Sysplex.</li> <li>▪ Valid characters are uppercase alphabetic characters, the digits 0 through 9, and the following symbols: \$, #, @ and underscore (_).</li> <li>▪ The first character may not be a number.</li> <li>▪ Element names that start with A through I, and SYS, are reserved for use by IBM.</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ N or NO or ' ' (Blank) – ARM for Control-M is not enabled. The operating system does not attempt to restart Control-M if it fails unexpectedly. Default.</li> <li>▪ policy_name – Name of the ARM policy. ARM for Control-M is enabled. The operating system attempts to restart Control-M if it fails unexpectedly.</li> </ul> <p>This element name must exactly match the ELEMENT and ELEMENT_NAME ARM policy parameters, or the operating system will use the default policy. For more information, see the section on ARM support in the Control-M chapter of the INCONTROL for z/OS Administrator Guide.</p>	
DOCUT	<p>Whether DOCU/TEXT is installed at the site.</p> <p>For more information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	2

Parameter	Description	Act
JSCAN	<p>Whether a JOB/SCAN product is installed at the site.</p> <p>For more information on this parameter, see the "Installing Control-M" chapter in the INCONTROL for z/OS Installation Guide: Installing.</p>	2
M622RC4	<p>Causes the CTMRELR utility to end with a return code of 4, instead of a return code of 12, if message CTM622E is displayed.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The utility ends with a return code of 4.</li> <li>▪ N – The utility ends with a return code of 12. Default.</li> </ul>	
MVBO	<p>Whether MAINVIEW Batch Organizer is installed at the site.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – MAINVIEW Batch Optimizer is installed at the site. Control-M and IOA integration, and support for MAINVIEW Batch Optimizer is required. Control-M concurrently submits jobs connected with MAINVIEW Batch Optimizer pipes. MAINVIEW Batch Optimizer pipes data and split step information can be viewed through the IOA online environment, using option W on the Control-M Active Environment screen (Screen 3). For further information about Control-M and IOA integration with MAINVIEW Batch Optimizer, see the Control-M for z/OS User Guide and the MAINVIEW Batch Optimizer Job Optimizer Reference Manual.</li> <li>▪ N – MAINVIEW Batch Optimizer is not installed at the site. Control-M and IOA integration, and support for MAINVIEW Batch Optimizer is not required. Default.</li> </ul>	1

## Additional Control-M customization parameters

These parameters are found in Step 1.12 of Control-M customization:

**Table 19 Special CCM parameters for Control-M customization**

Parameter	Description
DWNLDERR	<p>Controls error handling during the Control-M Application Server download process. Valid values are:</p> <ul style="list-style-type: none"> <li>▪ LOG - Writes a message to the IOA LOG identifying the job that caused the Control-M Application Server to fail during download.</li> <li>▪ EMX - Logs the event in the IOA log file and excludes the problematic job from the next download. Default.</li> </ul>

These parameters are found in Step 2.2 of Control-M customization:

**Table 20 Repository characteristic parameters for Control-M customization**

Parameter	Description
GRFSIZE	<p>Space (cylinders) for the GRF file.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 4 digits</li> <li>▪ Default: 5 (cylinders)</li> </ul> <p>For more information, see the Control-M chapter in the <i>INCONTROL for z/OS Administrator Guide</i>.</p>
STTPSIZ	<p>Primary space (cylinders) for the Statistics file.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 4 digits</li> <li>▪ Default: 5 (cylinders)</li> </ul> <p>For more information, see the Control-M chapter in the <i>INCONTROL for z/OS Administrator Guide</i>.</p>
STTSSIZ	<p>Secondary space (cylinders) for the Statistics file.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Maximum: 4 digits</li> <li>▪ Default: 1 (cylinders)</li> </ul>

These parameters are found in Step 3.3 of Control-M customization:

**Table 21 Additional parameters for Control-M customization**

Parameter	Description
SYNCLIBS	<p>The purpose of SYNCLIBS is to define a list of folder libraries that are automatically synchronized between Control-M and Control-M/Enterprise Manager. Whenever a folder in one of these libraries is updated on the mainframe, Control-M/EM will automatically request downloading that folder to the Control-M/EM database, so that it is synchronized with Control-M.</p> <p><b>Note:</b> Only the library name is to be specified in columns 1 - 72 of the SYNCLIBS member. If the user enters anything else, such as a comment, an error will be issued indicating that the scheduling library cannot be found.</p> <p><b>Note:</b> The synchronization of the folder libraries only occurs if Control-M/EM works in Two Way Synchronization Mode with Control-M.</p>

For information about other Control-M parameters that may be specified during a customized installation, see the "Installing Control-M" chapter in *INCONTROL for z/OS Installation Guide: Installing*.

## Control-M file customization

### Expanding the Active Jobs file

The procedure for expanding the Active Jobs file (AJF) described below is an integral part of ICE, ensuring that the procedure can be performed efficiently and expediently.

The expansion process performs the following operations:

- changes the necessary parameters through the data entry steps
- saves the parameters in the product libraries
- submits the EXPNDAJF expansion job

EXPNDAJF performs the following:

1. renames the existing files by adding the .OLD qualifier
2. allocates files with new space parameters
3. copies information from the .OLD files to the new files
4. compresses the AJF file by physically deleting all job definitions with ENDED-OK or DELETED status from the AJF

➤ **To expand the Active Jobs file (AJF), perform the following steps in ICE**

1. Select Customization.
2. Select the environment that you need to customize.
3. Enter CTM in the Product field.

4. Select Product Customization.
5. Select major step 10, "Expanding Control-M AJF."
6. Perform minor step 1, "Stop all monitors and IOA activities."
7. Perform minor step 2, "Verify AJF availability." If step 2 is marked NOT COMPLETE (\*), it indicates that the AJF, or some other files listed in the process output of step 2, are currently being used and therefore the AJF cannot be expanded. From the process output, determine from the JOBNAME who is using the files so that they can be notified to deactivate the files. To verify that the files are not being used, refresh the list by pressing ENTER. When the list is empty, the AJF expansion process can proceed. After step 2 is marked COMPLETE, continue to minor step 3.
8. Select minor step 3, "Specify AJF parameter." Enter the appropriate value for the AJFSIZE variable.
9. Perform minor step 4, "Save Parameters into Product Libraries." After step 4 is marked COMPLETE, continue to minor step 5.
10. Select minor step 5, "Expand AJF", either by marking the step with a "J" (to run the job automatically), or with an "S" (to run the job manually). Verify that the EXPNDAJF job is marked COMPLETE (if it was run automatically using the J option) or that it ended with a completion code of 0 or 4 (if it was run manually using the S option).

If the EXPNDAJF job ends with a JCL error, the job must be re-submitted. However, to avoid loss of data, correct the cause of the error before re-submitting the job.

11. If History Jobs file processing is enabled, use the FORMHST job in the Control-M INSTALL library to increase the size of the History Jobs file according to the new value of the AJFSIZE variable. For the procedure details, see the Expanding Control-M Files section in the *INCONTROL for z/OS Administrator Guide*.
12. Perform minor step 6, "Activate all monitors."

# Customizing Control-M/JCL Verify

## Control-M/JCL Verify customization considerations

CTJPARM is the Control-M/JCL Verify source parameter member (located in the IOA.PARM library) that provides Control-M/JCL Verify with installation parameters, as well as operational parameters.

This member may be maintained as a regular source member (for example, using the ISPF editor), or through ICE panels. BMC Software recommends you use ICE to update the member, reducing the risk of making mistakes and entering invalid values.

For information on the customization processes, see the section on installing Control-M/JCL Verify in the *INCONTROL for z/OS Installation Guide: Installing*.

## Control-M/JCL Verify management parameters

These parameters are found in Step 1.1 of Control-M/JCL Verify customization:

**Table 22 Control-M/JCL Verify management parameters**

Parameter	Description
DSNACCSS	<p>Verifies that the owner of the job has access privileges to the datasets used in the job.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul> <p>The required access privilege (for example, read and update) is verified according to the DISP parameter coded in the DD statement.</p> <p>If the user is not specified one of the following users are verified:</p> <p>when a JCL job is verified - the user that invoked Control-M/JCL Verify</p> <p>when a Control-M job definition is verified - the Control-M job owner</p> <p>The verification is performed by the security products supported by IOA (for example, RACF, CA-Top Secret, and CA-ACF2).</p> <p>If the JCL verification is performed while editing a job member (during the edit JCL function), the access privileges of the Control-M job owner is verified.</p>

Parameter	Description
DSNEXIST	<p>Verifies the existence of the datasets referred to in the job.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul>
JESTTMNT	<p>Verifies that JES2 and JES3 statements can be used in the job.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul>
PGMCHECK	<p>Verifies that the PGM load modules used by the job exist and can be found in the conventional search order (as follows: steplib, joblib, linklist...).</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul>
SITESTDR	<p>Verifies that site standard rules can be used for JCL verification.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul>
SUPUTIL	<p>Verifies utilities, such as IEBGENER, IEBCOPY, and SORT.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul>
CTMVAR	<p>Resolves Control-M AutoEdit variables in the job.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Yes. Default.</li> <li>▪ N – No.</li> </ul>

Parameter	Description
MSGLEVEL	<p>Specifies the minimum severity of messages to be issued. Messages with lower severity than specified are not printed and do not affect the final return code (RC).</p> <p>Valid values are:</p> <ul style="list-style-type: none"><li>▪ I – Information messages (lowest severity) and above (all messages). Default.</li><li>▪ W – Warning messages and above.</li><li>▪ E – Error messages (highest severity) only.</li></ul>

For information about other Control-M/JCL Verify parameters that may be specified during a customized installation, see the chapter about installing Control-M/JCL Verify in the *INCONTROL for z/OS Installation Guide: Installing*.



# Customizing Control-D

## Control-D customization considerations

CTDPARM is the Control-D source parameter member (located in the IOA.PARM library) that provides Control-D with installation parameters, as well as operational parameters.

This member may be maintained as a regular source member (for example, using the ISPF editor), or through ICE panels. BMC Software recommends you use ICE to update the member, reducing the risk of making mistakes and entering invalid values.

For information on the customization processes, see the section on installing Control-D in the *INCONTROL for z/OS Installation Guide: Installing*.

## Additional Control-D customization parameters

These parameters are found in Step 1.1 of Control-D customization:

**Table 23 MVS Procedure and Configuration Parameters for Control-D customization**

Parameter	Description
PROCNAME	<p>Name of Control-D New Day procedure.</p> <p>Default value is &lt;xxx&gt;NDAY. &lt;xxx&gt; indicates the first three characters of the Control-D JCL procedures specified in the PROCPRFD parameter.</p> <p>This parameter is set to its default value in the INSTALL CTD item, but you can reset it in the CUSTOMIZE item.</p>
PRTSTC	<p>Name of general PRINT monitor procedure.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Default value is &lt;xxx&gt;PRINT. &lt;xxx&gt; indicates the first three characters of the Control-D JCL procedures specified in the PROCPRFD parameter.</p> <p>This parameter is set to its default value in the INSTALL CTD item, but you can reset it in the CUSTOMIZE item.</p>

For information about other Control-D parameters that may be specified during a customized installation, see *INCONTROL for z/OS Installation Guide: Installing*.

## Control-D file customization

### Expanding the Active Mission file

The procedure for expanding the Active Mission File (AMF) described below is an integral part of ICE, ensuring that the procedure can be performed efficiently and expediently.

The expansion process performs the following operations:

- checks availability of the AMF and AMB datasets involved in the process
- changes the necessary parameters through the data entry steps
- saves the parameters in the product libraries
- submits the EXPNDAMF expansion job

EXPNDAMF performs the following:

1. renames the existing files by adding the .OLD qualifier
2. allocates files with new space parameters
3. copies information from the .OLD files to the new files
4. compresses the AMF file by physically deleting all mission definitions with ENDED-OK or DELETED status from the AMF

To expand the Active Mission File (AMF), perform the following steps in ICE

1. Select Customization.
2. Select the environment that you need to customize.
3. Enter CTD in the Product field.
4. Select Product Customization.
5. Select major step 8, "Expanding CONTROL-D AMF."
6. Perform minor step 1, "Stop all monitors and IOA activities."
7. Select minor step 2, "Specify AMF parameters."
8. Select minor step 3, "Expand Active Mission File (AMF)", either by marking the step with a "J" (to run the job automatically), or with an "S" (to run the job manually). Verify that the EXPNDAMF job is marked COMPLETE (if it was run automatically using the J option) or that it ended with a completion code of 0 or 4 (if it was run manually using the S option). If the EXPNDAMF job ends with a JCL ERROR, restore the original AMF and AMB data sets manually to avoid loss of data. Restoration can be performed from the AMF.OLD and AMB.OLD backup files created before. Correct the cause of the error and re-submit the job.
9. Perform minor step 4, "Activate all monitors."

## Customizing Control-M/Restart

### Control-M/Restart customization considerations

CTRPARM is the Control-M/Restart source parameter member that provides Control-M/Restart with installation parameters, as well as operational parameters. It is located in the IOA.PARM library. As of version 6.0.00, this member is in source format, and requires no compilation, linkage, and so on.

This member may be maintained as a regular source member, for example, using the ISPF editor, or using ICE panels. BMC Software recommends that you use ICE to update the member, in order to reduce the risk of making mistakes, entering invalid values, and so on.

The member is divided into sections, each of which starts with the name of the section in column 1, followed by the parameters that belong to that section. For more information about the syntax of such source parameter member, see the "Performing a customized installation - common tasks" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.

A number of tables in the Control-M/Restart customization considerations section include a column headed with the word Act. For an explanation of this column, see the *INCONTROL Installation Guide: Installing*.

The following table lists the parameters in the CTRPARM member alphabetically, with the section to which they belong, and the page in this chapter where they are described.

**Table 24 Parameters in the CTRPARM member**

Parameter	Section
ABNDTYP	<a href="#">Global operational parameters</a> (on page 71)
ADDPROC	<a href="#">Optional wishes with data</a> (on page 79)
ALLRUNS	<a href="#">Global operational parameters</a> (on page 71)
AMBLK#R	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
AMBLKSZR	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
AMPREFR	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
AMUNITR	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
AMVOLR	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
AUTOXREF	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
CHKSEC	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)

Parameter	Section
CTRPROC	<a href="#">Control-M/Restart procedure name</a> (on page 69)
CTRSTAT	<a href="#">Global operational parameters</a> (on page 71)
DELFOVOL	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
DMSVOL	<a href="#">Optional wishes with data</a> (on page 79)
DYNFILE	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
EAVUSE#R	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
ENHG DG	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
ERRORRC	<a href="#">Optional wishes with data</a> (on page 79)
FORCONCE	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
IFADJ	<a href="#">Global operational parameters</a> (on page 71)
IGNFLUSH	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
IGNGDGMB	<a href="#">Global operational parameters</a> (on page 71)
IGNLIST	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
IGNVOLRF	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
MAXDAYS	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
MAXRUNS	<a href="#">Compressed Sysout data set parameters</a> (on page 70)
MODGDGN	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
MSGLVL	<a href="#">Global operational parameters</a> (on page 71)
MSG2SYSO	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
NCAT2	<a href="#">Global operational parameters</a> (on page 71)
NCT2RC	<a href="#">Optional wishes with data</a> (on page 79)
NFILVS99	<a href="#">Optional wishes (yes or no values only)</a> (on page 73)
NONRSTDD	<a href="#">Optional wishes with data</a> (on page 79)
PROCRC	<a href="#">Optional wishes with data</a> (on page 79)

Parameter	Section
PRTDASD	Optional wishes (yes or no values only) (on page 73)
PRTUNIT	Optional wishes (yes or no values only) (on page 73)
SAMEGDG	Optional wishes (yes or no values only) (on page 73)
SEARCH	Global operational parameters (on page 71)
SUPNCT2	Optional wishes (yes or no values only) (on page 73)
SYSDB	Global operational parameters (on page 71)
TAPEMS	Global operational parameters (on page 71)
VOLISMS	Optional wishes (yes or no values only) (on page 73)

## Control-M/Restart procedure name

**Table 25** Control-M/Restart procedure name

Parameter	Description	Act
CTRPROC	<p>The Control-M/Restart procedure name after it is copied to the local MVS procedure library. The default is the three characters specified for the PROCPRFR parameter during the ICE installation procedure, followed by the five characters 'TROLR'.</p> <p>For more information on the PROCPRFR parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p> <p>For this customization to take effect:</p> <p>Shut down and restart the Control-M monitor, or issue the F CONTROLM,NEWPARM monitor command. This is number 1 in the Act column.</p> <p>Copy the Control-M/Restart procedure to the local MVS procedure library, renaming it to the specified name.</p>	1

## Compressed Sysout data set parameters

Table 26 Compressed Sysout Data Set Parameters

Parameter	Description	Act
AMBLK#R	<p>The default number of blocks in the first logical extent of a Control-M/Restart compressed sysout data set.</p> <p>Maximum length: 5 digits</p> <p>For more information about this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1
AMBLKSZR	<p>The block size that should be used for compressed sysout data sets.</p> <p>For more information about this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1
AMPREFR	<p>Prefix of the Control-M/Restart archived sysout data set names that are created by the Control-M monitor (the first qualifier in the data set name).</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1
EAVUSE#R	<p>Allows allocation of Control-R CDAM files on EAV (Extended Address Volumes).</p> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1
AMUNITR	<p>Default unit for archived sysout files. This unit will be used for the SYSDATA archived by the Control-M monitor.</p> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1
AMVOLR	<p>Default volume serial numbers for Control-M/Restart archived sysout data sets.</p> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1

Parameter	Description	Act
MAXDAYS	The default number of days the archived sysout data sets are to be kept.  For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i> .	
MAXRUNS	Default number of runs the archived sysout data sets are to be kept.  For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i> .	

## Global operational parameters

**Table 27** Global operation parameters

Parameter	Description	Act
ABNDTYP	How the special restart step inserted in the JCL of the job to be restarted terminates if the restart step encounters an unrecoverable error.  <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i> .	
ALLRUNS	Whether during post processing Control-M considers all previous runs of a job, both original runs and restarts, or only the last run or restart.  For more information, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i> , and the introduction chapter in the <i>Control-M/Restart for z/OS User Guide</i> .	1
CTRSTAT	Whether the skipped steps statistics message CTR066I is displayed.  <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i> .	

Parameter	Description	Act
IFADJ	<p>Whether to simulate the IF condition in IF, THEN and ELSE DD statements so that a job can be restarted within an IF, THEN or ELSE DD statement.</p> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	
IGNGDGMB	<p>Whether Control-M/Restart stops or allows processing of a job on detecting a missing base generation data set (base GDG) when processing a Control-M/Restart facility.</p> <p>For more information, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	
MSGLVL	<p>Message level of the Control-M/Restart step.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	
NCAT2	<p>Whether to prevent NOT CATLGD 2 events in advance as a default.</p> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	1
SEARCH	<p>Controls the searching for uncataloged data sets on all mounted disks that Control-M/Restart may perform in case of a restart of a job whose original run failed due to a system crash.</p> <ul style="list-style-type: none"> <li>▪ YES – Control-M/Restart starts searching for uncataloged data sets, on all mounted disks, if it recognizes that the original run of job failed due to a system crash. Default.</li> <li>▪ NO – Suppresses this processing; Control-M/Restart does not start searching.</li> <li>▪ CONFIRM – Control-M/Restart issues messages CTR303I and CTR304I and then waits for confirmation from an operator before starting to search the data sets.</li> </ul>	



Parameter	Description	Act
SYSDB	<p>Specifies which type of archive (CDAM) data sets will be used by Control-M and Control-M/Restart for saving job outputs.</p> <p>The SYSDB parameter in the CTRPARM member specifies the default archiving type. It may be overridden by the SYSDB parameter in the scheduling definition of any specific job.</p> <ul style="list-style-type: none"> <li>▪ YES – Multi-job CDAM files are used for archiving the sysouts of jobs, meaning that each archive CDAM data set may contain the output of several jobs. Default.</li> <li>▪ NO – Each archive CDAM file may contain the sysout of only one job.</li> </ul>	1
TAPEMS	<p>Whether a Tape Management system is installed at the site.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>For more information on this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	

## Optional wishes (yes or no values only)

**Table 28** Optional wishes (yes or no values only)

Parameter	Description	Act
AUTOXREF	<p>Whether statistics are collected automatically during Control-M/Restart PREVENT NCT2 processing for the Job Dataset Cross Reference report. These statistics are the same as those produced by the CTMJDS utility.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Statistics are automatically collected for the Job Dataset Cross Reference report.</li> <li>▪ N – Statistics are not automatically collected for the Job Dataset Cross Reference report. Default.</li> </ul>	
CHKSEC	<p>Security checks for data sets used by a job.</p> <p>For more information about this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	

Parameter	Description	Act
DELFOVOL (WR0085)	<p>Controls whether Control-M/Restart deletes a data set from the volume pointed to by the catalog in addition to deleting it from the volume identified in the JCL of the job (if they differ). Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart deletes the data set from the volume pointed to by the catalog in addition to deleting it from the volume identified in the JCL. This is useful when the user changes the volumes specified in JCL between runs of the job.</li> <li>▪ N – If a data set is found on the volume specified in JCL, Control-M/Restart deletes the data set from that JCL volume only. If the data set is also cataloged in another volume, it is not deleted from that other volume. Default.</li> </ul>	
DYNFILE (WR0266)	<p>Controls the processing of dynamic (CDAM) data sets.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart processes dynamic (CDAM) data sets in exactly the same way as regular data sets. Default.</li> <li>▪ N – Control-M/Restart skips processing of dynamic (CDAM) data sets.</li> </ul>	
ENHG DG (WR0204)	<p>Enhanced GDG handling.</p> <p>For more information, see also MSG2SYSO, the following parameter in this table.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart issues special message CTR3011 during Prevent NCT2 or List processing. This message contains information that may be useful for correct processing of GDG data sets during restart. Default.</li> <li>▪ N – Control-M/Restart does not issue the CTR3011 messages.</li> </ul>	
FORCONCE (WR0302)	<p>Whether a DO FORCEJOB request is executed during the RESTART of a job.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – The DO FORCEJOB statement is not executed during the RESTART of a job if this statement was already executed during the original run of the job or during a previous RESTART of the job.</li> </ul>	

Parameter	Description	Act
IGNFLUSH (WR0247)	<p>Prevents, during the Restart process, the processing of new GDG data sets from being created by steps flushed during the original run of a job.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – During the Restart process, Control-M/Restart avoids processing of GDG data sets specified with DISP set to NEW if such a GDG data set is specified in a step that did not run (was flushed) during original run of a job. Such processing usually includes scratching and uncataloging corresponding GDG data set created by the original run of a job and correcting the name of the new GDG data set so that it has the same name as during original run. This parameter, together with the SAMEGDG parameter, described below, may be useful when several jobs may create new GDG generations for the same GDG base.</li> <li>▪ N – This feature is not activated and Control-M/Restart processes GDG data sets the same way for all steps. Default.</li> </ul>	
IGNLIST	<p>Whether Control-M/Restart can ignore a missing input data set during Control-M/Restart LIST processing.</p> <p>For more information about this parameter, see the "Installing Control-M/Restart" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>	
IGNVOLRF (WR0245)	<p>Whether Restart Step Adjustment is performed when the job has a DD statement that refers to a tape data set with a volser specified by a backward reference, using a VOL=REF statement, to a step that is prior to the Restart step and is not to be executed during Restart</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Step Adjustment is not performed. The Restart begins at the selected step, and Control-M/Restart attempts to resolve the volser and avoid JCL errors.</li> <li>▪ N – Control-M/Restart performs Step Adjustment to resolve VOL=REF statement specifications that refer to steps prior to the selected Restart step. Default.</li> </ul>	

Parameter	Description	Act
MODGDGN (WR0088)	<p>Controls processing of GDG data sets specified with DISP set to MOD.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – If the GDG data set (with DISP set to MOD) exists, Control-M/Restart processes it as a data set with DISP set to OLD. That is, it corrects the reference - rolls back - to the GDG data set name.</li> <li>▪ N – Control-M/Restart should process GDG data sets with DISP set to MOD in exactly the same way as it processes GDG data sets with DISP set to NEW. That is, DELETE and UNCATALOG the corresponding GDG data set created by original run of job. Default.</li> </ul>	
MSG2SYSO (WR0209)	<p>Controls the output data set to which CTR301I messages are sent when the ENHG DG parameter is set to Y.</p> <p>For more information, see also ENHG DG, the preceding parameter in this table.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart issues messages CTR301I to the JESYSMSG data set (third MSGCLASS data set). Default.</li> <li>▪ N – Control-M/Restart issues messages CTR301I to the JESMSG LG data set (first MSGCLASS data set).</li> </ul>	
NFILVS99 (WR0077)	<p>Enables Control-M/Restart job processing to create new files dynamically (using SVC 99).</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart does not stop the job if one of the input data sets is missing, for example where the data set is referred to by a DD statement in a step that is not the first step to be executed. The logic is to allow dynamic allocation in an application or the use of the IDCAMS utility.</li> <li>▪ N – The restarted job is stopped if an input data set is missing. Default.</li> </ul>	

Parameter	Description	Act
PRTDASD (WR0065)	<p>Controls the printing of parameter members used for Control-M/Restart processing.</p> <ul style="list-style-type: none"> <li>▪ Y – Print the contents of parameter members (from the Control-M/Restart PARM library) used by Control-M/Restart. Default.</li> <li>▪ N – Suppress printing of the contents of parameter members (from the Control-M/Restart PARM library) used by Control-M/Restart.</li> </ul>	
PRTUNIT (WR0063)	<p>Controls the printing of the default UNIT Names table.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart prints the default UNIT Names table. Default.</li> <li>▪ N – Control-M/Restart does not print the default UNIT Names table.</li> </ul>	
SAMEGDG (WR0231)	<p>Support of concurrent writing to the same GDG base by different jobs.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart supports concurrent writing to the same GDG base by different jobs. This includes additional checking before Control-M/Restart processes any GDG data set (such as scratching, uncataloging, and correcting data set name) that corresponds to a GDG data set (such as scratched, uncataloged, and used data set name) that was really created and/or used by the original run of the same job. This parameter, together with IGNFLUSH (described in this table), may be useful for the cases when several jobs may create new GDG generations for the same GDG base.</li> <li>▪ N – This feature is not activated. Default.</li> </ul>	

Parameter	Description	Act
SUPNCT2 (WR0143)	<p>Controls suppression of part of the Prevent NCT2 Control-M/Restart processing facility.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart does not change DISP=(OLD,CATLG) to DISP=(OLD,KEEP) for data sets that are to be cataloged in one of the previous steps of the job. This value is recommended for sites using SMS. Default.</li> <li>▪ N – Control-M/Restart changes DISP=(OLD,CATLG) to DISP=(OLD,KEEP) for data sets that are to be cataloged in one of the previous steps of the job. This value is not recommended for sites using SMS.</li> </ul>	
VOLISMS (WR0246)	<p>Support of jobs having VOL=SER expressions for SMS-controlled data sets.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Control-M/Restart ignores VOL=SER expressions that specify a non-mounted disk or a disk that does not contain corresponding data sets. Instead of using the volume specified by the VOL=SER expression, Control-M/Restart takes a volume according to a specified data set name or a volume taken from the Catalog. This parameter value should be used by sites that have implemented SMS, but that still have jobs with JCL that were developed before SMS implementation, and are accessing irrelevant volumes with the VOL=SER parameters.</li> <li>▪ N – This feature is not activated and Control-M/Restart processes VOL=SER expressions the standard way. Default.</li> </ul>	

## Optional wishes with data

Table 29 Optional wishes with data

Parameter	Description	Act
ADDPROC, PROCRC and NCT2RC  (WR0166 and WR0186)	<p>Enables Control-M to insert an additional step in a job when restart and/or PREVENT NCT2 processing is performed for the job.</p> <p>The corresponding new step is inserted between the Control-M/Restart step (executes RESTART or PREVENT NCT2 processing) and the first step of a job itself.</p> <p>The purpose of these parameters is to allow steps in a job to check different return codes, depending on whether a job has been restarted (PROCRC) or not restarted (meaning, the original run of the job, NCT2RC). The job steps do so through the JCL COND parameter, which sets the step names and return codes that the user selected using these customization parameters.</p> <p>ADDPROC sets the name of the inserted step. PROCRC specifies the condition code to be generated by this step in case of restart processing. NCT2RC sets the condition code to be generated by this step in case of PREVENT NCT2 processing.</p> <p>The step inserted calls the IOATEST procedure supplied in the IOA PROCLIB library. Therefore, to use this feature you must copy the IOATEST member from the IOA PROCLIB library to any active PROCLIB library known to JES.</p> <p>Control-M inserts the step by adding the following line to the JCL of a job to be submitted:</p> <pre>//%ADDPROC% EXEC IOATEST,PARM='C%PROCRC%'</pre> <p>for restart processing and</p> <pre>//%ADDPROC% EXEC IOATEST,PARM='C%NCT2RC%'</pre> <p>for PREVENT NCT2 processing.</p> <p>where %ADDPROC%, %PROCRC% and %NCT2RC% are values specified for the corresponding parameters.</p>	1
DMSVOL (WR0110)	<p>Specifies the volume name used for identifying data sets migrated by DMS.</p> <p>Any data set cataloged on the specified volume is assumed by Control-M/Restart as migrated by DMS. If omitted, the volume name MIGRAT is used. If a volume name is also specified, it is used in addition to MIGRAT.</p>	

Parameter	Description	Act
ERRORRC (WR0054)	<p>Specifies the condition code of the Control-M/Restart step when it fails.</p> <ul style="list-style-type: none"> <li>▪ Maximum: 999</li> <li>▪ Default: 8</li> </ul> <p>If the ABNDTYP parameter is specified as UABEND, the ERRORRC parameter specifies a user abend code of Control-M/Restart step when it fails.</p>	
NONRSTDD (WR0150)	<p>Specifies the DD name used for identifying a non-restartable step.</p> <p>If the step has a DD statement with this name, Control-M/Restart cannot use the corresponding step as a first step for restart of a job.</p> <p>If omitted, the DD names CTRNORST and UCC11NR are used.</p> <p>If a DD name is specified, that name is used in addition to CTRNORST and UCC11NR.</p>	



# Customizing Control-V

## Control-V customization considerations

CTVPARM and IOASPRM are the Control-V source parameter members (located in the IOA.PARM library) that provides Control-V with installation parameters, as well as operational parameters.

CTVPARM provides the parameters related to index processing.

IOASPRM provides the parameters related to migration processing.

These members may be maintained as a regular source members (for example, using the ISPF editor), or through ICE panels. BMC Software recommends that you use ICE to update the members, reducing the risk of making mistakes, entering invalid values, and so on.

For information on customization processes, see the *INCONTROL for z/OS Installation Guide: Installing*.

## Additional Control-V customization parameters

These parameters are found in Step 2.1 of Control-V customization:

**Table 30 MVS procedure parameters**

Parameter	Description
PROCNAMV	<p>Name of IOA Archive Server procedure.</p> <p>Default value is &lt;xxx&gt;SMON. &lt;xxx&gt; indicates the first three characters of the IOA JCL procedures specified in the PROCPRFA parameter. Length: up to 8 alphanumeric characters; the first must be a letter.</p> <p>This parameter is set to its default value in the INSTALL CTV field, but you can reset it in the CUSTOMIZE menu.</p>

For information about other Control-V parameters that may be specified during a customized installation, see the *INCONTROL for z/OS Installation Guide: Installing*.

# Customizing Control-O

## Control-O customization considerations

### Customization of Control-O parameters

CTOPARM is the Control-O source parameter member (located in the IOA.PARM library) that provides Control-O with installation parameters, as well as operational parameters.

This member may be maintained as a regular source member (for example, using the ISPF editor), or through ICE panels. BMC Software recommends that you use ICE to update the member, reducing the risk of making mistakes, entering invalid values, and so on.

The member is divided into sections, each of which starts with the name of the section in column 1, followed by the parameters belonging to that section. For more information about the syntax of such source parameter member, see the "Performing a customized installation - common tasks" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.

### Customizing Control-O environment parameters

The following table provides an alphabetical list of the parameters in the CTOPARM library.

Select 1 to customize the CTOPARM library.

**Table 31 Operational parameters**

Parameter	Description
AOSUBSYS	<p>MAINVIEW or AutoOPERATOR subsystem in which Control-O can respond to requests.</p> <p>The value of entered in this field must be different than the value of IOA subsystem name.</p>
COSMOS	<p>Whether the Control-O Status Monitoring System (COSMOS) will be active at your site.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Control-O/COSMOS is active. (COSMOS uses the Control-O password.) Contact BMC Software Customer Support for a password.</li> <li>▪ N (No) – COSMOS is not active. Default.</li> </ul>

Parameter	Description
	<p>Note: For details about customizing COSMOS, see the "Installing Control-O" chapter in the <i>INCONTROL for z/OS Installation Guide: Installing</i>.</p>
CTOGATE	<p>Whether Control-O uses IOAGATE to communicate with other Control-O monitors.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – IOAGATE is enabled.</li> <li>▪ N (No) – IOAGATE is not enabled. Default.</li> </ul> <p>Note: For details about installing IOAGATE, see the <i>INCONTROL Installation Guide: Installing</i>.</p>
DAYTIMEO	<p>The start time of the work day at your site. Format: DAYTIMEO=+hhmm or DAYTIMEO=-hhmm where:</p> <ul style="list-style-type: none"> <li>▪ + indicates after midnight</li> <li>▪ – indicates before midnight.</li> <li>▪ hhmm is the time (hour and minute)</li> </ul> <p>Default value: +1200</p> <p>Note: The Control-O DAYTIMEO value must be the same as the one assigned to Control-M if Control-M is installed.</p>
DEALIAS	<p>Whether the Control-O DEALIAS feature is used.</p> <p>This feature automatically brings MVS, JES2, and JES3 commands to a standard format before searching for rules that are triggered by the command. This saves specifying all the possible command formats in the rule.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Use Dealias feature. Default.</li> <li>▪ N (No) – Do not use Dealias feature.</li> </ul>

Parameter	Description
INTERVLO	<p>Sleeping interval of the Control-O monitor.</p> <p>The monitor is dormant most of the time. It "wakes up" after the specified interval and determines which tasks it must perform.</p> <p>Most Control-O message processing is performed in the subsystem interface. Therefore, the value of INTERVLO does not affect the speed at which Control-O processes messages. Message processing is performed continuously.</p> <p>The value of INTERVLO only affects how often the Control-O monitor scans its queues for work. For example, after each interval, Control-O checks if other INCONTROL products added new conditions to the IOA Conditions file.</p> <p>The format for INTERVLO is HHMMSSth, where:</p> <ul style="list-style-type: none"> <li>▪ HH – Two digits, representing hours. Valid values: 00 through 24.</li> <li>▪ MM – Two digits, representing minutes. Valid values: 00 through 59.</li> <li>▪ SS – Two digits, representing seconds. Valid values: 00 through 59.</li> <li>▪ th – Two digits, representing hundredths of seconds. Valid values: 00 through 99.</li> </ul> <p>Leading zeros may be omitted (for example, three seconds, 00000300, may be specified as 300).</p> <p>The minimum value is 100 (1 second). The default value is 400 (4 seconds).</p> <p>The value for INTERVLO should be specified according to the computer model. This value can also be modified using an operator command. For details, see the Control-O chapter of the <i>INCONTROL for z/OS Administrator Guide</i>.</p>

Parameter	Description
<p>JCMDSSN</p>	<p>Name of an optional additional subsystem to be used by Control-O to control JES2 and JES3 commands.</p> <p>Under JES2</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ ' ' (Blank) – JES2 command suppression is not required. Therefore, no other actions are required.</li> <li>▪ EXIT – The ability to suppress JES2 commands is required using the dynamic subsystem Exit IEFJFRQ. Default.</li> <li>▪ subsystem_name – The ability to suppress JES2 commands is required and an additional subsystem should be defined. The specified value (if any) must be different than the value specified in the SSNAME parameter in the IOAPARM member.</li> </ul> <p>Note: The option used in previous Control-O versions is still supported. However, IBM requires that the primary subsystem be the first subsystem in the subsystem chain, in which case defining this field overrides that specification.</p> <p>Warning! If this value is specified, this subsystem name must be defined in the IEFSSNnn member and must be placed immediately after JES2 in the subsystem name table. Otherwise, other subsystems, such as DB2, can be affected.</p>
	<p>For example, if JCMDSSN is set to O62J, the subsystem table may contain the following values:</p> <ul style="list-style-type: none"> <li>▪ SMS – SMS</li> <li>▪ JES2 – JES2</li> <li>▪ O62J – Control-O JES2 command suppression subsystem.</li> <li>▪ I700 – IOA subsystem.</li> <li>▪ DB2T – Any other subsystem in the machine.</li> </ul> <p>However, once Control-O has been started, the specified Control-O JES2 command suppression subsystem (for example, O62J) is moved to the top of the subsystem list. Using the previous example, the result would be:</p> <ul style="list-style-type: none"> <li>▪ O62J</li> <li>▪ SMS</li> <li>▪ JES2</li> <li>▪ I700</li> <li>▪ DB2T</li> </ul>

Parameter	Description
	<p>Under JES3</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ ' ' (Blank) – JES3 command suppression is not required. Therefore, no other actions are required.</li> <li>▪ EXIT – The ability to suppress JES3 commands is required using the dynamic subsystem Exit IEFJFRQ.</li> </ul>
MLTOUT	<p>The maximum period (seconds) a rule waits for the next or last line when a multiple line message is processed. The rule is timed-out if the seconds elapsed between one line to the next exceeds the specified value.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> <li>▪ Valid values: 2-120 (seconds)</li> <li>▪ Default: 20</li> </ul>
UMCONS	<p>Number of subsystem consoles for use by Control-O rules for Command-Response processing.</p> <ul style="list-style-type: none"> <li>▪ Default: 0</li> </ul> <p>Note: Subsystem allocatable consoles are logical consoles not associated with any physical device. The consoles are reserved for use by special subsystems such as JES3 and OCCF. Control-O uses these consoles for Command-Response rules.</p> <p>Subsystem allocatable consoles can be defined in the CONSOLxx member of the SYS1.PARMLIB library as follows:</p> <pre>CONSOLE DEVNUM(SUBSYSTEM) AUTH(...)</pre> <p>For details, see the MVS Initialization and Tuning Reference.</p> <p>Subsystem allocatable consoles can be displayed using the MVS operator command DISPLAY CONSOLES. For information about the format of the display, see the z/OS System Messages Manual. If no subsystem consoles are available at this time, or this is the first time that Control-O is being installed, use the default value. This parameter can be modified later.</p> <p>Note: Control-O supports EMCS consoles that do not require system definitions. BMC Software recommends that you use EMCS consoles, and set this parameter to 0.</p>

Parameter	Description
ONSYROUT	<p>Enables the Control-O sysout interface. The CTOJFRQ Control-O exit module is called by the dynamic subsystem exit IEFJFRQ.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Support the ON SYSOUT interface.</li> <li>▪ N (No) – Do not support the ON SYSOUT interface. Default.</li> </ul>
RQC#	<p>Number of internal request elements used for inter-process communication.</p> <p>After the product is installed and running, the initial value specified for this parameter should be reviewed and adjusted according to the requirements at your site:</p> <ul style="list-style-type: none"> <li>▪ Use the following operator command to determine the RQC usage statistics: F CONTROL0 ,USAGESTATS=RQC</li> <li>▪ If the RQC utilization exceeds 80%, increase the value of the RQC# parameter.</li> </ul> <p>The default value is 20000.</p> <p>For further details on the MODIFY USAGESTATS command, see the <i>INCONTROL for z/OS Administrator Guide</i>.</p> <p>Warning:</p> <p>In order to increase or decrease the value of the RQC# parameter, Control-O must be stopped and then re-started with the new value. Starting a new Control-O with an increased value over the running Control-O might have unexpected results, such as ABENDs.</p>
RUNTCACH	<p>Number of entries in the Control-O security cache.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ 0 (Zero) – No security cache is allocated.</li> <li>▪ n – Number (n) of security cache entries allocated. Recommended initial value: 100.</li> </ul> <p>The security cache improves runtime security check performance by saving security blocks used for the authority check and reusing them in subsequent authority checks.</p> <p>The RUNTCACH parameter is ignored if the RUNTSEC rule parameter is set to N.</p>

Parameter	Description
RUNTDFT	<p>How runtime security checks should be performed for rules.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ NONE – No runtime security checks are performed on the rule, unless the RUNTSEC rule parameter specifies otherwise.</li> <li>▪ OWNER – Runtime security checks are performed according to the authority of the owner of the rule, unless the RUNTSEC rule parameter specifies otherwise.</li> <li>▪ TRIGGER – Runtime security checks are performed according to the authority of the user ID that issued the message or the authority of the command that triggered the rule, unless the RUNTSEC rule parameter specifies otherwise.</li> <li>▪ DISABLE – No runtime security checks are performed on the rule, overriding the value specified in the RUNTSEC rule parameter. Default.</li> </ul>
SECJES	<p>Support of a secondary JES2. If there are more than one active JES2s, Control-O can trigger Control-O rules related to JES2 messages regardless of whether the message is issued by the primary JES2 or the secondary JES2. This parameter replaces optional Wish WI0920 in Control-O version 5.1.4.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Control-O rules are triggered regardless of issuing JES2. Default.</li> <li>▪ N (No) – The JES that issued the message is taken into account before rules are triggered.</li> </ul>
SMODE	<p>This parameter is no longer used, and is kept solely for compatibility with previous releases.</p>
SRVGEN#	<p>Number of General KOA/TSO servers. Recommended initial value 2. This value can be adjusted later to meet site requirements.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul>
SRVGENQ	<p>Number of seconds a KOA/TSO request waits for a General server before being executed by an Immediate server. If 0 (Zero) is specified, requests wait indefinitely for a General server.</p> <ul style="list-style-type: none"> <li>▪ Default: 0</li> </ul>
SRVIMD#	<p>Number of Immediate servers that can run in parallel. Recommended initial value: 5. This value can be adjusted later to meet site requirements.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul>



Parameter	Description
SRVPROC	<p>The Control-O server procedure name.</p> <p>The default name is xxxSERV, where xxx = first 3 character of the Control-O monitor's name. When Control-O monitor's name is CONTROL0, the server procedure name is CTOSERV.</p>
STATINT	<p>Interval in seconds between two consecutive updates of the Statistics file.</p> <ul style="list-style-type: none"> <li>▪ Minimum: 30 (seconds)</li> <li>▪ Default: 45 (seconds)</li> </ul>
	<p>Note: This parameter is ignored if the STATO parameter is set to N.</p>
STATO	<p>Controls accumulation of message statistics.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Accumulate message statistics. Default.</li> <li>▪ N (No) – Do not accumulate message statistics.</li> </ul>
THRESHOLD	<p>The rule-triggering threshold for a Control-O interval.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ ' ' (Blank) – No limit.</li> <li>▪ 0 (Zero) – No limit.</li> <li>▪ 1 through 999999999 – Threshold value.</li> </ul>

Parameter	Description
WAITPR#	<p>Number of rules in wait mode that can execute concurrently.</p> <ul style="list-style-type: none"> <li>▪ Default: 20</li> </ul> <hr/> <p>Note: The rules which are currently executing in wait mode appear at the top of the list in the OS screen and in the output of the F CONTROL,DISPLAY operator command.</p> <p>Each rule executing in wait mode occupies one wait element in the ECSA, in an internal control block called PND. For additional information about the ECSA utilization of Control-O, see the INCONTROL for z/OS Administrator Guide. After the product is installed and running, the initial value specified for this parameter should be reviewed and adjusted according to the requirements at your site, as follows:</p> <ul style="list-style-type: none"> <li>▪ Use the following operator command to determine the PND usage statistics: F CONTROL,USAGESTATS=PND</li> <li>▪ If the PND utilization exceeds 50%, increase the value of the WAITPR# parameter.</li> </ul> <p>For further details on the MODIFY USAGESTATS command, see the <i>INCONTROL for z/OS Administrator Guide</i>.</p> <hr/> <p>The following events cause a rule to enter wait mode:</p> <ul style="list-style-type: none"> <li>▪ Rule using a DO COMMAND statement with the WAITMODE parameter set to YES.</li> <li>▪ Rule setting the variable WAITRESP or RESPMSG (for compatibility with previous versions).</li> <li>▪ Rule using a DO TSO or DO KSL statement.</li> <li>▪ Rule setting the variable WAITTSO or WAITKSL (for compatibility with previous versions).</li> <li>▪ Rule using a DO WAIT statement.</li> <li>▪ Rule using a DO ASKOPER statement.</li> <li>▪ Rule processing a multiline WTO.</li> </ul>

Parameter	Description
WQEUPD	<p>Whether to update message block (WQE) "in place" with the required changes created in statement: DO DISPLAY with NEWTEXT text. This parameter replaces optional Wish IO0024 in Control-O version 5.1.4.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Update the message block.</li> <li>▪ N (No) – Do not update the message block.</li> <li>▪ Default: N</li> </ul>
WSC#	<p>Number of events that can be intercepted concurrently.</p> <ul style="list-style-type: none"> <li>▪ Minimum: 15</li> <li>▪ Default: 20</li> </ul> <p>Note: Each intercepted event occupies one work buffer in the ECSA, in an internal control block called WSC. For additional information about the ECSA utilization of Control-O, see the INCONTROL for z/OS Administrator Guide.</p> <p>After the product is installed and running, the initial value specified for this parameter should be reviewed and adjusted according to the requirements at your site, as follows:</p> <ul style="list-style-type: none"> <li>▪ Use the following operator command to determine the WSC usage statistics: F CONTROL O , USAGESTATS=WSC</li> <li>▪ If the WSC utilization exceeds 50%, increase the value of the WSC# parameter.</li> </ul> <p>For further details on the MODIFY USAGESTATS command, see the <i>INCONTROL for z/OS Administrator Guide</i>.</p>

## Customizing Control-O servers

Select 2 to customize Control-O servers.

For details, refer to the "Installing Control-O" chapter in the INCONTROL for z/OS Installation Guide: Installing.

## Customizing Control-O EMCS consoles

Select 3 to customize Control-O servers.

For details, refer to the "Installing Control-O" chapter in the INCONTROL for z/OS Installation Guide: Installing.

## Saving parameters into product libraries

Select 4 to customize Control-O servers.

This step saves all the parameters specified in ICE. Wait until processing completes. The step is automatically marked complete. This step customizes the CTOPARM member in the IOA.PARM library of the current IOA environment.

## Customization of Control-O data sets

In the follow steps, you can customize the Control-O data sets that are required on each z/OS system on which Control-O is active.

### Customization instructions

The following customization steps allow you to change the characteristics of the product's data sets.

These steps should be performed only when all the components are INACTIVE (monitors, online environment etc.).

Use the same method to change the characteristics of each data set, as follows:

- Rename the existing data set that you want to customize.
- Change the necessary parameters in the data entry steps or the Space Calculation steps, or both.
- Save the parameters into the product libraries.
- Submit the formatting job.

If you wish to copy the contents of the previous data set into the new data set, look for the relevant utility in the *INCONTROL for z/OS Utilities Guide*.

## Control-O data set parameters

Use the following steps to customize the size of the

- Global variables library
- automation log
- Statistic file

**Table 32 Data set parameters**

Parameter	Description
STREC#	<p>Maximum number of message IDs that can be accumulated. This parameter determines the size of the Control-O Statistics file. BMC Software recommends a specification of 10,000 or a higher figure</p> <ul style="list-style-type: none"> <li>▪ Default: 10,000</li> </ul> <p>This parameter is ignored if the STATO parameter is set to N.</p>
ALREC#	<p>Maximum number of messages that can be stored in the Automation log. The Automation log is a wraparound file. When it becomes full, Control-O overwrites the oldest messages. Calculate this parameter according to the number of messages per day, and the number of days you want the messages to be kept in the Automation log. Each message record is 364 bytes long. For example, if a site has 100,000 messages a day, the Automation log requires 61 cylinders of 3390 disk space to hold the contents of one day of processing.</p>
AUTOMLOG	<p>Automation Log options.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ N (No) – Automation Log facility is not used. Rule traces are written to the Control-O monitor sysout DAACTLOG file.</li> <li>▪ D – Automation Log facility is used. The Automation Log file resides in a direct access (BDAM) data set.</li> <li>▪ V – Automation Log facility is used. The Automation Log file resides in a DIV (Data in Virtual) VSAM Linear data set. This is the recommended value.</li> </ul>

Parameter	Description
GLBCOMP	<p>Whether Control-O should automatically compress the Global AutoEdit library whenever necessary. This parameter is useful at sites that do not operate a PDS management product.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y (Yes) – Use the Autocompress function.</li> <li>▪ N (No) – Do not use the Autocompress function. Default.</li> </ul> <p>If Y is selected and the site security uses the Program Pathing option:</p> <ul style="list-style-type: none"> <li>▪ Refer to the security definition member for Control-O for Program Pathing IOA.V700.BASE.INSTCTO (CTOSRAC4, CTOSSAF4 or CTOSTSS4).</li> <li>▪ Control-O monitor must be allowed to run IEBCOPY.</li> <li>▪ Note that any user allowed to update the Global AutoEdit library and run IEBCOPY may be able to compress the Global AutoEdit library directly (outside of the Control-O monitor).</li> </ul>

## Saving parameters into product libraries

Select 3 to apply the changes.

This step saves all the parameters specified in ICE. Wait until processing completes. The step is automatically marked complete. This step customizes the CTOPARM member in the IOA.PARM library of the current IOA environment.

## Allocating global AutoEdit libraries

See the "Installing Control-O" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.

## Allocating and formatting CTO statistics files

See the "Installing Control-O" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.

## Allocating the Automation log file

See the "Installing Control-O" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.

# Customizing Control-M/Tape

## Control-M/Tape customization considerations

### Additional Control-M/Tape customization parameters

These parameters are found in Step 1.5 of Control-M/Tape customization:

**Table 33 Operational parameters for Control-M/Tape customization**

Parameter	Description
DYNMED	The media type which will be assigned in the Media Database (MDB) for dynamically-added volumes (see DYNVOL parameter above).
DSNMCHK	<p>Determines whether Control-M/Tape verifies that the data set name in the Media database matches the data set name specified in the JCL of the job.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ Y – Perform data set name verification. Default.</li> <li>▪ N – Do not perform data set name verification.</li> <li>▪ B – Do not perform data set name verification when accessing the volume as BLP in the JCL of the job.</li> <li>▪ E - Do not perform data set name verification when accessing external volumes.</li> <li>▪ X - Do not perform data set name verification when accessing external volumes or accessing a volume as BLP in the JCL of the job.</li> </ul>

Parameter	Description
TMPVLACT	<p>Controls the activation process of the volumes used for temporary storage.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ N - Control-M/Tape ignores all volumes used for temporary storage of files. The volumes remain as SCRATCH in Control-M/Tape after the job using the volumes completes, but remain as active in the ATL. This activation process is compatible with the process prior to this enhancement. Default.</li> <li>▪ Y- ontrol-M/Tape activates all volumes used for temporary storage. Volumes are set to ACTIVE, PENDIND_SCRATCH after the job using the volumes completes. These volumes become SCRATCH during the next CTTRTM run, which includes the Control-M/Tape ATL interface in both the Control-M/Tape database and the ATL.</li> <li>▪ A - For volumes that are ATL-resident, the activation process is as TMPVLACT=Y. Otherwise, for volumes that are not ATL-resident, the activation process is as TMPVLACT=N.</li> </ul>
TRCDELAY	<p>Controls the interruptions of the reading by the IOA functional monitor of the Control-M/Tape Trace file.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>The format of the parameter is (rec,sec) where</p> <ul style="list-style-type: none"> <li>▪ rec – the number of records processed before reading by the IOA functional monitor stops. Default: 100</li> <li>▪ sec – the duration, in seconds, of each interruption of the reading by the IOA functional monitor. Default: 15</li> </ul> <p>If you set the CTTRSrv parameter to Y (to activate Control-M/Tape Reserve support), BMC Software recommends that you set the TRCDELAY parameter to (100,30). This prevents contention problems on the disk where the Control-M/Tape Trace file resides.</p>



These parameters are found in Step 1.7 of Control-M/Tape customization:

**Table 34 Stacking parameters**

Parameter	Description
STKVCBP	<p>Whether, during Dynamic Stacking, Control-M/Tape rejects data sets that can be created on more than one volume.</p> <p>If the VOLUME COUNT subparameter of the VOL parameter is set in JCL to a value other than 1, the data set can be created on more than one volume. In that event, when Dynamic Stacking is performed, Control-M/Tape, by default, rejects the data set with a reason code of 7.</p> <p>The STKVCBP parameter enables Dynamic Stacking to be performed despite the setting of the VOLUME COUNT subparameter.</p> <ul style="list-style-type: none"> <li>▪ Mandatory</li> </ul> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>▪ N – Reject data sets that can be created on more than one volume. Default.</li> <li>▪ Y – Do not reject data sets that can be created on more than one volume.</li> </ul> <p>Note: You can use the Product Customization option in ICE to set a value for the STKVCBP parameter.</p>

For information about other Control-M/Tape parameters that may be specified during a customized installation, see the "Installing Control-M/Tape" chapter in the *INCONTROL for z/OS Installation Guide: Installing*.



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