

CA-VTERM[®] for VM

Operator Guide

3.3



Computer Associates[®]

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Chapter 1. Introduction

CA-VTERM is a terminal expansion facility through which you can manipulate up to 16 logical terminals from just one physical terminal. This permits more efficient use of your installation's resources. CA-VTERM also eliminates security concerns by preventing unauthorized access to system and profile information.

1.1 Features

Some of the outstanding operator features of CA-VTERM are summarized below:

1.1.1.1 Convenience

- easy access to utility screens for dynamically altering profiles
- commands can be issued from the online screens or from the service machine console
- full-screen or single-line message facilities
- can add virtual graphic terminal addresses as needed
- orderly method for
 - suspending CA-VTERM sessions
 - terminating CA-VTERM
- access to multiple userids without logging off and on

1.1.1.2 Efficiency

- directories for profiles and automated terminal programs
- online HELP facility
- multitasking facility
- diagnostic facility
- session can be resumed intact after being suspended
- designated recipient of all CA-VTERM related messages
- online screens summarizing
 - command sequences
 - option specifications
 - terminal definitions
 - transfer IDs
 - logon/dial sequences

1.2 Issuing CA-VTERM Commands

A CA-VTERM operator is a privileged user designated by the CA-VTERM administrator to have extensive profile access and command capabilities.

1.2.1.1 Identifying System Operators

The system administrator identifies the system operators to CA-VTERM with the System Operators List. The online utility enables the administrator to keep this list current.

1.2.1.2 Operator Tasks

Operators have access to all user and session profiles via the online utility. (Other users may access only their own profiles.) They may also issue all CA-VTERM commands from either:

- the Online Command Display screen or
- the command line of any screen by means of a CP SMSG command

1.3 Communicating with CA-VTERM

CA-VTERM is run on a special CMS virtual machine called a service machine. The service machine is a userid that runs CA-VTERM from a disconnected state. A virtual machine normally permits only one user to execute one task (or run one product) at a time. CA-TASKMAN, a Computer Associates multi-tasking facility, enables the CMS service machine to simultaneously process multiple tasks from multiple users.

You can communicate with CA-VTERM by issuing commands to its service machine via the Online Command Screen of the CA-VTERM utility, or from the command line of any screen.

1.4 Communicating with the Service Machine

1.4.1 Starting the Service Machine

Before CA-VTERM can be used, the service machine must be logged on. The most convenient methods for starting the service machine are:

- automatic logon by the IBM AUTOLOG1 ID or
- scheduled logon by CA-SCHEDULER

Although it is not recommended, the service machine may also be manually logged on or started with the CP AUTOLOG command.

Define all service machines in the CP directory with PARM=AUTOOCR. Also, the last line of the PROFILE EXEC must be "&STACK CAISTART" for EXEC and EXEC2, or "PUSH CAISTART" for REXX. Otherwise, you will have to manually log on to the service machine, and enter CAISTART.

The name of the service machine (server) is set at installation time. Computer Associates suggests you use the following names for the products listed below.

Service Machine Name	Product
DIRECTOR	CA-DIRECTOR
DYNAMCMS	CA-DYNAM/B and CA-DYNAM/T
JARCMSSR	CA-JARS
SCHDCMS	CA-SCHEDULER
VTERM	CA-VTERM

1.4.2 Sending Queries

There are several ways of communicating with the service machine:

- on an online command screen
- via the CP SMSG command
- by logging on to the service machine
- through the IBM Single Console Image facility (SCIF)

1.5 Accessing the CA-VTERM Utility

You may communicate with the service machine by issuing commands from an online command screen provided with the CA-VTERM utility, VTRMUTIL.

To access the CA-VTERM utility, type **VTRMUTIL** and press ENTER. The CA-VTERM Primary Menu (VTRM-0000) is displayed.

1.5.1 Primary Menu

```
VTRM-0000          Primary Menu          CA-VTERM
====>

Enter the number of your selection and press the ENTER key:

    1 System   Information
    2 User     Profile Information
    3 Session  Profile Information
    4 Automated Terminal Program Information
    5 Online   Command Display
    6 Online   Message Display

PF1=Help    2=      3=Quit    4=Return    5=      6=ComHelp
PF7=        8=      9=      10=        11=     12=
```

From this screen you can access other screens allowing you to set the system defaults/options, create and maintain user and session profiles, access automated terminal programs, issue CA-VTERM commands, and send messages to other userids. Each of the Primary Menu selections is briefly described on the following page.

To choose an option, type in the number of your selection and press the ENTER key.

1. System Information

Displays a screen on which a CA-VTERM operator can change the system defaults.

2. User Profile Information

Allows any CA-VTERM user to create, modify or delete their own user profile.

3. Session Profile Information

Allows any CA-VTERM user to create, modify or delete their own session profiles.

4. Automated Terminal Program Information

Permits a CA-VTERM operator to create, modify or delete any automated terminal programs.

5. Online Command Display

Permits any CA-VTERM user to issue CA-VTERM online commands to check the status of the CA-VTERM system.

6. Online Message Display

Allows any CA-VTERM user to send a full-screen message to any other logged-on CA-VTERM user.

1.5.2 The CA-VTERM Command Screen

Choose selection 5 from the Primary Menu, to display the CA-VTERM Online Command Display screen. This is a special screen for communicating with the service machine and entering CA-VTERM and CA-TASKMAN operator commands.

The Online Command Display screen is shown below.

```
VTRM-0500                Online Command Display                CA-VTERM
====>

Enter command and press the ENTER key:

Command: _____

PF1=Help    2=      3=End    4=Return    5=      6=ComHelp
PF7=Backward 8=Forward 9=      10=      11=      12=
```

The response to your command appears below the command line. This response can be interrogated by pressing PF7 (forward) or PF8 (backward). You can also enter an editor, CMS, or CP command on the screen command line, which is indicated by an arrow (==>).

Information is received from the service machine at irregular intervals. Each time you press ENTER, the system looks for output received since the last ENTER. You may have to press ENTER several times until the response is complete.

Refer to CA-TASKMAN and CA-VTERM operator command sections of this manual for a complete list of the CA-TASKMAN and CA-VTERM operator commands.

1.5.3 The CP SMSG Command

The CP SMSG command enables you to communicate with the service machine from the command line of any screen.

```
[CP] SMSG | userid product command
```

Where:

userid is the VM name of the service machine.

product is the name of the product as it is known to CA-TASKMAN. The name is required only if more than one Computer Associates product is installed in the service machine. You may specify either the complete task name or its abbreviation. These are displayed in the chart below.

Complete Task Name	Abbreviation
DIRECTOR	DD
DYNAMCMS: <ul style="list-style-type: none"> ■ CADYNAMB ■ CADYNAMT 	DB DT
SCHDCMS	SC
VTERM	MC

command is any valid product operator command.

1.5.3.1 Logging on to the Service Machine

You can also communicate with the service machine by issuing commands while logged on to the service machine ID:

1. Enter the logon sequence for the service machine ID.
2. Issue the desired commands.
3. Enter CP DISC to exit, leaving the service machine in a disconnected state.

1.5.3.2 Single Console Image Facility (SCIF)

Another way for you to communicate with the service machine is via the IBM Single Console Image facility. SCIF permits a second virtual machine to be established as a secondary user to the service machine. If your userid is designated as the secondary user, whenever the service machine is disconnected (as is the case when CA-VTERM is running), your userid can control the service machine.

First your userid must be established as the secondary user to the service machine with the CONSOLE directory control statement:

```
CONSOLE      |   vaddr devtype class userid
```

Where:

vaddr is the virtual device address expressed as a hexadecimal number one to three characters long.

devtype is one of the following device types:

1052 3210 3215 3270

class is the spooling class expressed as one character. Default: T

userid is your userid.

Your logged-on userid gains control of the service machine as soon as the service machine disconnects:

- Whatever would appear on the service machine console now appears on your screen instead. For instance, if the message "CAMC023I 3278-2: 020 HAS BEEN RESET, RC=4" would have appeared on the CA-VTERM service machine console, your terminal screen would display the message instead:

```
VTERM: CAMC023I 3278-2: 020 HAS BEEN RESET, RC=4
```

- You can issue commands to the disconnected service machine with the SEND command:

CP SEND		service-machine-ID	text
---------	--	--------------------	------

See the *IBM VM/SP CP General User Command Reference* for more information.

1.5.4 Responding to Messages

All messages from a service machine that require an operator response are preceded by a reference number.

To	Enter
display	
■ your outstanding messages	CP SMSG userid QUERY REPLY
■ outstanding messages for all users	CP SMSG userid QUERY REPLY all
respond to a specific message	CP SMSG nnn response where: nnn is the message number and response is your reply

1.6 HELP Utilities

The HELP utilities provide immediate online assistance with CA-VTERM screens, diagnostic messages and command syntax and usage.

1.6.1 HELP with Screens

You can obtain HELP for any screen or message by pressing PF1 or by typing HELP and pressing ENTER. When you do this, you will see a main menu of HELP selections. The selections on the menu lead down to other HELP screens on lower levels.

```

HELP
====> _

                                     CA-VTERM
                                     PANEL ID.n.n.n

                                     +-----+
                                     | Name Of Screen |
                                     +-----+

+-----+
| For help with | Enter |
+-----+-----+
| using this screen | 1 |
| prompts          |   |
| . as they appear on the screen | 2 |
| . in alphabetical order | 3 |
| messages         | HELP MSG <msg#> |
| special keys     | HELP KEYS |
+-----+-----+

PF1=Help      2=      3=End      4=Return  5=      6=
PF7=Prev Level 8=Next Topic 9=      10=Prev Page 11=Next Page 12=Cursor

```

- HELP** Identifies the screen as a HELP screen.
- ====>** This is the command area. Enter HELP commands or menu choice numbers here.
- CA-VTERM** This is the product you are using.
- PANEL ID** This is the ID of this HELP panel. The prefix is the panel ID number of the screen you wanted help with. The numbers following the period represent the various levels in the HELP hierarchy of screens.
- Name Of Screen** Identifies the screen you wanted help with.
- menu** Lists the HELP choices and tells you what to enter for each choice.
- PF Keys** PF key options for movement within HELP.

1.6.2 Using HELP

To choose an item from a main menu like the one shown, simply type the number of your choice in the command area and press ENTER. If you want help with an error message or with special keys, enter the commands shown on the menu.

HELP screens are designed as a hierarchy. At the top is the main menu screen you have already seen. One selection explains how to use the product screen from which you called for HELP. Another selection offers you another menu of choices, so that you can get help

with a specific prompt. Sometimes other selections are available that lead to help with other aspects of a product screen.

Once you are in HELP, you can move around within the HELP database by pressing PF (program function) keys or entering HELP commands.

By requesting HELP while you're currently viewing a HELP screen, you can nest one HELP branch within another. You can do this as often as you like, and then go back to a previous HELP screen or to the product screen at which you started.

1.6.2.1 Program Function Keys

Key	Function	Description
PF1	HELP	Calls HELP from any CA-VTERM screen calls HELP for HELP from within the utility
PF3	End	Ends the current branch of HELP and returns to the screen that originally called it
PF4	Return	Ends HELP and returns to the product Primary Menu
PF7	Prev Level	Returns to the HELP menu from which you selected the current HELP screen
PF8	Next Topic	Displays the next HELP topic
PF10	Prev Page	Displays the previous page of a multi-screen HELP
PF11	Next Page	Displays the next page of a multi-screen HELP
PF12	Cursor	Moves the cursor to the command line

1.6.2.2 Getting Help with other CA-VTERM Screens

If you need assistance with a CA-VTERM screen other than the one from which you accessed HELP, and you know the panel ID number, enter:

```
HELP panelid
```

Entering this instruction in the command area will move you to the top HELP menu associated with that CA-VTERM screen.

1.6.2.3 Getting Help with HELP

If at any time you need help with HELP, press PF1 or enter HELP in the command area.

```

HELP                                     CA-VTERM
====> _                                HELP

      +-----+
      | Using HELP |
      +-----+

+-----+
| To                                           | Press |
+-----+-----+
| return to the                               | PF3   |
| . screen from which you requested HELP     | PF4   |
| . product main menu                       |       |
| . HELP menu from which you selected the    | PF7   |
|   current HELP screen                     |       |
+-----+-----+
| scroll                                       | PF8   |
| . to the next HELP topic                   | PF11  |
| . down to a continuation screen           | PF10  |
| . up from a continuation screen           |       |
+-----+-----+

PF1=Help      2=          3=End      4=Return  5=          6=
PF7=Prev Level 8=Next Topic 9=         10=Prev Page 11=Next Page 12=Cursor

```

This screen tells you how to move around within HELP or return to CA-VTERM.

1.6.2.4 Additional HELP Commands

Command	Description
?	Displays the last command entered in the command area
=	Repeats the last command entered
&	When placed before a command, causes the command to remain in the command area until typed over

1.6.2.5 Cursor-Sensitive HELP

If you want to get help with a particular prompt without going through several HELP menus, simply tab the cursor to that prompt and press PF1. You will then go directly to the appropriate HELP screen. Once there, you can move around within the HELP data base in the usual manner, by pressing PF keys or entering HELP commands.

1.6.2.6 Ending HELP

To end HELP at any time, simply press PF3 or PF4:

- if you press PF3, you return to the screen from which you most recently requested help.
- if you press PF4, you end HELP and return to the product Primary Menu.

Since you can request HELP while you're viewing a HELP screen, you can nest one HELP branch within another. If you've nested the HELPs, press PF3 to return to a previous branch of HELP, or press PF4 to end all HELP.

1.6.3 HELP with Messages

If you get an error message while using CA-VTERM, and want an explanation of it, enter:

```
HELP MSG msg#
```

in the command area of a product or HELP screen. HELP with messages is available directly from the product or from within HELP.

When you enter this instruction, you will see a screen explaining the reason for the message displayed and the action you should take. The message information shown on the screen is the same as that shown in your manual.

```
HELP                               Messages                               CA-VTERM
====> _                           MSG_CAMC200I

ENTER USERID, PASSWORD AND/OR SESSION

Reason: This message is displayed on the Online Logon screen following a
        CP DIAL or VTERM CONNECT command to the CA-VTERM service machine.

Action: Enter a user profile name and associated password to utilize the
        autolog facility, or leave blank to display the Online Logon
        Options screen for altering the system defaults. Enter a session
        profile name to override the default session profile for a user.

PF1=Help      2=          3=End      4=Return    5=          6=
PF7=Prev Level 8=Next Topic 9=          10=Prev Page 11=Next Page 12=Cursor
```

The format of the message number is CApcnnnx where,

pc is the product code

nnn is a three-digit number

x is the severity code

1.6.4 HELP with Commands

Computer Associates provides a command syntax help facility which allows you to display, online, all information pertinent to any CA-VTERM command.

To access the Command HELP facility, press PF6 from any CA-VTERM product screen. This will display the syntax for the command directly associated with the function of the current screen. If the screen is a menu screen, or if there is more than one command associated with the screen function, then a menu of all CA-VTERM commands (for which HELP exists) is displayed. From this menu you may select the command you wish to view and press ENTER or PF2.

Additionally you may access the Command HELP facility by way of the COMHELP command. The syntax is:

```
COMHELP      |      [ product [ command ] ]
```

Where:

product is an optional parameter specifying the name of the Computer Associates product for which you require help.

command is an optional parameter specifying the command you wish to display.

The COMHELP command may be executed from the CMS Ready prompt, or from the command line of any Computer Associates product screen.

If you enter "COMHELP" (without any parameters), the Command HELP Main Menu is displayed. This screen displays all of the VM products for which Command HELP exists. Select the product you are using (CA-VTERM), then press ENTER or PF2.

If you enter "COMHELP CAVTERM", (or if you select CA-VTERM from the Main Menu), a product specific menu is displayed. This screen lists all of the CA-VTERM commands for which Command HELP exists. Select the command you need help with, then press ENTER or PF2. The command specific help screen is displayed.

If you enter "COMHELP CAVTERM command", the command specific help screen is immediately displayed.

You may also use the following syntax to obtain immediate help for any CA-VTERM command:

```
command | { ? | HELP | COMHELP }
```

Where:

command is the product command.

?|HELP|COMHELP are equivalent, and call the Command HELP facility.

Chapter 2. CA-VTERM Operator Commands

The CA-VTERM online commands can be issued by system operators from the Online Command Display screen or from the service machine console.

To access the Online Command Display screen, select option 5 from the CA-VTERM Primary Menu. The Online Command Display screen is shown below.

VTRM-0500	Online Command Display	CA-VTERM
====>		
Enter command and press the ENTER key:		
Command: _____		
PF1=Help	2=	3=End
PF7=Backward	8=Forward	9=
		4=Return
		10=
		5=
		11=
		6=ComHelp
		12=

The following chart summarizes the online CA-VTERM commands.

To	Issue this command
assign an operator to receive all CA-VTERM messages	OPERATOR
add virtual terminal addresses	PORTS
send full-screen messages	MSG
examine status of CA-VTERM tasks	QUERY
reset a CA-VTERM session	RESET
deactivate CA-VTERM	TERMINATE
produce SNAP dumps	VSNAP

Each of these commands is described on the following pages. The commands are listed in alphabetical order.

2.1 MSG

Sends a one-line message to CA-VTERM-controlled terminals.

Command Syntax:

MSG	{ user-profile } { session-profile } { logged-on userid } { dialed-to userid } text { cuu } { Gcuu } { Lcuu } { ALL }
-----	--

Where:

- text** is your one-line message.
- user-profile** sends message to all users operating a session governed by this user profile.
- session-profile** sends message to all users operating a session governed by this session profile.
- logged-on userid** sends message to the userid logged on to from within the CA-VTERM session.
- dialed-to userid** sends message to the userid dialed to from within the CA-VTERM session.
- cuu** sends message to the real terminal address.
- Lcuu** sends message to the logical terminal address.
- Gcuu** sends message to the dialed or graphic terminal address.
- ALL** sends message to all active CA-VTERM users. Only operators can specify this parameter.

Usage Notes:

Before displaying the message, CA-VTERM saves the contents of the recipient's screen. To restore the screen, the recipient has to press the CLEAR key.

2.2 OPERATOR

Assigns the CA-VTERM operator who will receive all CA-VTERM related messages and program dumps.

Command Syntax:

```
OPERator | userid
```

Where:

userid is a CMS logon user ID

Usage Notes:

This command remains in effect until CA-VTERM is brought down or until another OPERATOR command is issued, whichever is first.

2.3 PORTS

Adds virtual graphic terminal addresses for use when dialing to CA-VTERM.

Command Syntax:

```
PORTS | addr addr
```

Where:

addr is the graphic or real device address if the terminal is attached to the CA-VTERM service machine or the virtual device address (vaddr) defined by the CA-VTERM service machine.

Examples:

```
PORTS 020 03F
```

The above PORTS command defines 32 virtual lines to the CA-VTERM service machine for users dialing CA-VTERM. These addresses do not correspond to any real terminal addresses.

Usage Notes:

You may specify one or two addresses. If you specify two, the first indicates the start address of a range of devices.

2.4 QUERY

Examines the current status of CA-VTERM tasks.

Command Syntax:

Query	<pre>[HOLD] [NUMBER] [TERMINAL] [UTILITY] [IUCV] [VTAM] [ID id] [ALL]</pre>
-------	---

Where:

HOLD displays the names of currently suspended sessions.

NUMBER displays the number of:

- physical terminals in use
- IUCV tasks in progress
- suspended tasks
- utility tasks
- logical devices initiated

TERMINAL displays the physical terminals in use.

UTILITY displays the user IDs currently using the VTRMUTIL EXEC.

IUCV displays the user IDs currently using the VTERM CONNECT facility.

VTAM displays the user IDs currently using the VSE/VTAM Interface.

ID One of 7 means of identifying CA-VTERM users.

This ID	Displays
user-profile	all users operating a session governed by this user profile.
session-profile	all users operating a session governed by this session profile.
logged-on-userid	the userid logged on to from within the CA-VTERM session.
dialed-to-userid	the userid dialed to from within the CA-VTERM session.
cuu	the real terminal address.
Lcuu	the logical terminal address.

This ID	Displays
Gcuu	the dialed or graphic terminal address.

ALL Displays all of the above information. This is the default if no option is specified.

Usage Notes:

Any user can issue the QUERY command.

2.5 RESET

Resets a CA-VTERM session.

Command Syntax:

RESET	<pre> { user-profile } { session-profile } { logged-on userid } { dialed-to userid } { cuu } { Gcuu } { Lcuu } </pre>	DROP
-------	---	------

Where:

- user-profile** resets all users operating a session governed by this user profile.
- session-profile** resets all users operating a session governed by this session profile.
- logged-on-userid** resets the userid logged on to from within the CA-VTERM session.
- dialed-to-userid** resets the session of the userid dialed to from within the CA-VTERM session.
- cuu** resets the session of the real terminal address.
- Gcuu** resets the session of the dialed or graphic terminal address.
- Lcuu** resets the session of the logical terminal address.

Usage Notes:

RESET drops the physical terminal from CA-VTERM:

- If you specified a unique user ID profile name for your current session (as opposed to a group ID), CA-VTERM suspends the current session.

- If you did not specify a unique user ID profile name or if the RESET command syntax includes the DROP keyword, CA-VTERM immediately terminates all logical terminals associated with the current session.

2.6 TERMINATE

Deactivates CA-VTERM after resetting (dropping) all CA-VTERM sessions.

Command Syntax:

```
TERMINATE |
```

Usage Notes:

Issue TERMINATE to end CA-VTERM in an orderly fashion.

2.7 VSNAP

Produces SNAP dumps of important control blocks and data buffers before and after I/O and/or CP operations. Use this diagnostic tool only under the direction of Computer Associates.

Command Syntax:

```
VSNAP      |      { ALL      }      [ user-profile ]
            |      { ACCEPT } { ON  } [ session-profile ]
            |      { IO      } { OFF } [ logged-on-userid ]
            |      { PRESENT }      [ dialed-to-userid ]
            |      [ cuu      ]
            |      [ Gcuu     ]
            |      [ Lcuu     ]
```

Where:

- ALL** produces a snap dump whenever any I/O or CP transfer occurs
- ACCEPT** produces a snap dump whenever data must be written to a logical terminal
- IO** produces a snap dump whenever an input or output occurs involving a terminal
- PRESENT** produces a snap dump whenever CA-VTERM has input data from a logical terminal.
- ON** sets VSNAP on.

OFF sets VSNAP off.

This ID	Produces SNAP dumps for
user-profile	the first user operating a session governed by this user profile.
session-profile	the first user operating a session governed by this session profile.
logged-on-userid	the first userid logged on to from within the CA-VTERM session.
dialed-to-userid	the first userid dialed to from within the CA-VTERM session.
cuu	the real terminal address.
Lcuu	the logical terminal address.
Gcuu	the dialed or graphic terminal address.

Default: The first active physical terminal address.

Usage Notes:

Use VSNAP only under the direction of Computer Associates. SNAP dumps are routed to the last operator who issued a valid VSNAP command.

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