

# CA Console Management for OpenVMS

**Release Notes**

**r3.1**



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# Chapter 1: Release 3.1 Features

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This section contains the following topics:

- [Operating System Support](#) (see page 7)
- [System Requirements](#) (see page 7)
- [Secure Console Communications](#) (see page 10)
- [Support Increased to 500 Console Connections](#) (see page 10)
- [Full Halt Sequence Support for Serviced Systems](#) (see page 11)
- [IPv6 Enhancements](#) (see page 11)
- [Updated Scan Profiles and Icons](#) (see page 13)
- [Source Stream Merge](#) (see page 14)
- [HTML Bookshelf](#) (see page 14)

## Operating System Support

CA Console Management for OpenVMS r3.1 supports the following operating systems:

- HP OpenVMS Industry Standard 64 v8.2-1, v8.3 and v8.3-1H1
- HP OpenVMS Alpha v7.3-2, v8.2 and v8.3

This release does not support the following operating systems:

- OpenVMS Alpha v6.2, v7.1, v7.2, v7.3, v7.3-1
- OpenVMS VAX

We recommend that you install any HP OpenVMS ECOs with an installation rating of 1.

## System Requirements

The following requirements must be met or exceeded for CA Console Management for OpenVMS r3.1 to install and run correctly:

- TCP/IP Stack Requirements
- Console Manager
- CA Common Services (CCS) Integration

## TCP/IP Stack Requirements

The following list contains the OpenVMS versions and the corresponding TCP/IP stack versions:

- HP TCP/IP Services for OpenVMS Industry Standard 64 V5.5 and V5.6
- HP TCP/IP Services for OpenVMS Alpha V5.4, V5.5 and V5.6

For systems running HP TCP/IP Services, at a minimum the following HP ECO level is recommended:

- HP TCP/IP Services I64 V5.6, ECO 2
- HP TCP/IP Services I64 V5.5, ECO 3
- HP TCP/IP Services Alpha V5.6, ECO 2
- HP TCP/IP Services Alpha V5.5, ECO 2
- HP TCP/IP Services Alpha V5.4, ECO 7

- Process Software TCPware 5.7-2 ,5.8, and 5.9

For systems running TCPware 5.7-2 or 5.8, the following Process Software ECO is required:

- DRIVERS\_V582P050 or later
- SSH\_V582P020 or later

For systems running TCPware 5.9, the following Process Software ECO is required:

- DRIVERS\_V592P010 or later

- Process Software MultiNet v5.1, v5.2, and v5.3

For systems running MultiNet v5.1, the following Process Software ECOs are required:

- UCX\_LIBRARY\_EMULATION-110\_A052 or later
- UCXDRIVER-061\_A051 or later
- KERNEL-UPDATE-260\_A051 or later
- SSH-090\_A051 or later



For systems running MultiNet v5.2, the following Process Software ECOs are required:

- UCX\_LIBRARY\_EMULATION-011\_A053 or later
- UCXDRIVER-050\_A052 or later
- SSH-050\_A052 or later

For systems running MultiNet v5.3, the following Process Software ECOs are required:

- KERNEL-UPDATE-030\_A053 or later
- UCX\_LIBRARY\_EMULATION-011\_A053 or later

## Console Manager

The OpenVMS requirements are as follows:

### **Alpha:**

- To install Console Manager, a minimum of 365,000 blocks of free disk space is required.
- To run Console Manager, a minimum of 110,000 blocks of free disk space is required.

### **I64:**

- To install Console Manager, a minimum of 485,000 blocks of free disk space is required.
- To run Console Manager, a minimum of 130,000 blocks of free disk space is required.

Disk space refers to space required for the product base files and does not take into account the requirements for log and archive data collected by CA Console Management.

## CA Common Services Integration

To run CA Common Services (CCS )Integration on Windows, the version requirements are as follows:

- CA Network and System Management (NSM), or CA CCS r11.1 or r11.2. See the Readme files for these products for other prerequisites.

**Note:** This release does not support NSM or CCS 3.x or r11.

## Secure Console Communications

r3.1 enhances security by introducing secure communications between the Console Manager station and the terminal/console servers and between the Console Manager station and MP/iLO's. This involves the use of SSH in order to establish a secure communications path to terminal/console servers and MP/iLO's that support it.

The enhanced security gives you the use of secured authentication and data encryption for any communication between the Console Manager Controllers (client side) and secured system consoles (server/peer side).

For further information on this new feature, see the following sections in the Administration Guide:

- See chapter 2 "Setup the Environment", sections:
  - *Connect using SSH Transport*
  - *Identifying and Correcting Connection Problems*
- See Chapter 3 "Modifying the Configuration Database", sections:
  - *Add Security Profiles*
  - *Add Serviced Systems*
- See Chapter 9 "Customizing Console Manager", the section *Customizing SSH*.
- See Appendix F "Typical SSH Configuration on OpenVMS".

### Notes:

- This feature requires new configuration database records or changes to existing database records. Due to this record format change, the installation procedure must export an existing configuration database before replacing the prior version product images. For more information see the Installation Guide.
- When connecting to the MP/iLO of an Integrity server, you must execute the necessary commands on the MP/iLO in order to interface with the operating system console. For example, enter the "CO" command at the MP/iLO command prompt after executing the CONSOLE CONNECT command to interface with it.

## Support Increased to 500 Console Connections

CA Console Manager now manages up to 500 console connections.

## Full Halt Sequence Support for Serviced Systems

We changed the functionality of the Break key, and added the new Halt key. The Halt key is the key you type to halt a system. When you enter the Halt key, you are asked if you want to halt the system. The Halt key and Break key are functionally equivalent. The Halt key can be defined to be any key in range of Control-A through Control-Z. Beginning with this release you can specify the halt sequence for CM to transmit (one to eight characters) or the keyword BREAK (to transmit a break signal).

Both the halt key and the halt sequence are defined on a per-system basis in the configuration database. This functional change provides for a consistent method to protect from accidental system halts and provides the convenience of only having to enter a single keystroke in order to halt systems that use a multiple character halt sequence.

For further information on this new feature, see the following sections in the Administration Guide:

- See chapter 3 "Modifying the Configuration Database", sections:
  - *Add Serviced Systems, Step 10 (Command Line Interface)*
  - *Add Serviced Systems, Step 6 (Motif Interface)*
- See Chapter 7 "Creating a Dialog Script"
- See Chapter 9 "Monitor Interface Commands", sections:
  - *Setting the Halt Key*
  - *Transmitting a Break Signal on a Console Line*
  - *Transmitting a Break Signal with Connection Type of SSH*

## IPv6 Enhancements

This feature implements IPv6 within the various components of the product that require it. The use of CA Common Services (CCS) Integration for OpenVMS r3.2 is described in this section as it facilitates the implementation of IPv6 within the OpenVMS/NSM integration components. It should be noted that use of CCS for OpenVMS 3.2 also modernizes the OpenVMS/NSM integration in general.

## CA Common Services r11.2

IPv6 support for the CA NSM Integration requires OpenVMS host objects in the NSM Repository containing IPv6 addresses and names. This will allow NSM Integration components to find these objects upon reception of SNMP traps from nodes with IPv6 addresses, to create, update and maintain child objects and to provide all the object related features by using IPv6 name and address lookup functions.

For more information on IPv6 as it relates to CCS Integration, see the appendix "IPv6" in the *CA Common Services for OpenVMS Integration Guide*.

## Fail-over protocol

IPv6 support is provided on the IP stacks that support it.

For more information on IPv6 with failover, in the *Administration Guide*, see the chapter "Setting Up Failover", section *Establishing the Configuration*, Step 4: Configure Console Manager Failover for IPv6.

## CA Common Discovery

CA Common Discovery is a lightweight common component that provides the discovery and classification of all entities within an IPv4 or IPv6 network. It discovers the relationships between these entities and effectively records the Network's Topology in a separate database. Then, Management Command Center (MCC) IPv6 import tool is used to import the discovered hosts into the NSM Repository. Therefore, the MCC component is installed as part of NSM/CCS r11.2.

CA Common Discovery is included into the Windows-side NSM Integration to provide support for IPv6 environments. CA NSM and CCS r11.2 do not include tools to discover hosts in IPv6 environment. Thus, CA Common Discovery must be installed on Windows to provide IPv6 capabilities for NSM/CCS r11.2 and NSM Integration.

CA Common Discovery is a separate item in the Product Explorer menu.

**Note:** CA Common Discovery installation requires Java Run-Time Environment and Apache Tomcat Server to be installed. These third party components are installed by NSM / CCS r11.2.

For detailed information on the use of CA Common Discovery to discover IPv6 networks, refer to this file on the product DVD:

`\ENU\NT\CommonDiscovery\CA_Common_Discovery_Install_and_Configuration.doc..`

## CM Station to terminal/console servers

When you install CA Console Management for OpenVMS r3.1, it implements IPv6 protocols for communications between the Console Management Station and the terminal/console servers.

The software provides the option of utilizing secure communications over IPv6.

## CM Station to MP/iLO

The software implements IPv6 protocols for communications between the CM Station and the MP/iLO. The software also provides the option of utilizing secure communications over IPv6.

## Updated Scan Profiles and Icons

We updated the scan profiles to be more complete, and added system icons for use with the C3 GUI.

## Updated OpenVMS V8 Scan Profile

The scan profile is updated to include new events that are applicable to OpenVMS V8. Existing events have their context information updated to allow for retrieval of all lines of data that make up the context of the event. A host of new and updated events have been added and organized in a modular format (sub-scan profiles) so that they may be combined to form main scan profiles to suit individual needs. Custom and application specific events and scan profiles may also be included in any combination. The scan profiles from earlier releases are included to provide continued support for managed systems that are running older versions of OpenVMS.

## New Integrity Server Scan Profiles

Scan profiles for both the cell-based and Blade Integrity servers have been created. These profiles include event definitions for console messages that are unique to these server types.

## New Integrity Icons

Monochrome Xbitmap (XBM) images have been created for both the cell based and Blade Integrity servers. Icons have been also created for the BladeSystem enclosures.

## Source Stream Merge

CA Console Management r3 was released as two separate versions; one that supports VAX and Alpha systems, and one that supports OpenVMS I64 servers. These two source streams have been merged to produce a common source stream from which r3.1 was built.

CA Console Management r3.1 supports Alpha and I64 systems with this single release.

## HTML Bookshelf

This release contains the CA HTML Bookshelf, which is an HTML help system that provides access to all deliverables in the product documentation set, regardless of the file format. The HTML Bookshelf features include:

- A single help screen that displays all documentation for this release.
- An all-in-one search tool that searches the entire documentation set, regardless of file format.
- Additional links for using the Bookshelf, downloading Acrobat Reader, and contacting CA.

After installing the product you can find the Bookshelf here:

**<WorldView-install-path>\UNIVMS\DOC**

For example, on NSM/CCS r11.1:

C:\Program Files\CA\SharedComponents\CCS\WVEM\UNIVMS\DOC

Or on NSM/CCS r11.2:

C:\Program Files\CA\SC\CCS\WVEM\UNIVMS\DOC

Alternatively, on r11.2, the Bookshelf path can be specified like this:

%CA\_TND\_HOME%\UNIVMS\DOC

**Note:** You can also download and extract the All files with searchable index.ZIP file from CA Support Online. To extract the content of a .ZIP file, use an archive program such as WinZip or StuffIt, and choose to extract the content to a local folder. Once extracted, open the Bookshelf folder and click the Bookshelf.hta file.