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VC-4 Crestron Virtual Control Server Software User Manual

**Crestron Virtual Control Server Software
User Manual**

Contents

VC-4 Crestron Virtual Control Server Software

- Offers a centralized server-based alternative to individual hardware-based control systems
- Provides a scalable virtual control platform
- Streamlines deployment, maintenance, and management
- Supports XiO Cloud® cloud-based monitoring
- Supports C#, SIMPL, and SIMPL# Pro programming
- Integrates directly with IP-controllable devices
- Integrates with serial, IR, CEC, and other controllable devices via decentralized control ports on DM®, DM NVX®, and other Crestron® interfaces
- Enables server redundancy for increased reliability
- Employs enterprise-grade security to ensure maximum reliability and privacy

- Includes software mobility license that enables functionality for Crestron software solutions
- Per-room licensing makes it easy to determine the number of licenses required for an installation

Crestron® Virtual Control (VC-4) is a server-based control platform for enterprise applications that can be used in place of hardware-based Crestron control systems. The platform runs programs to control multiple rooms over the network from a single, centralized location. Cloud-based monitoring is also available using the XiO Cloud® service.

NOTE: When running in a virtualized environment, Crestron Virtual Control can leverage the hypervisor's fault tolerance and high-availability features. If Crestron Virtual Control is installed on a bare-metal server (such as a standalone computer), it cannot leverage these features. If these features are desired, Crestron Virtual Control software must be installed in an existing virtualized environment that supports them.

Crestron Virtual Control can be integrated with a variety of devices, including audio, video, lighting, motorized shades, thermostats, door locks, sensors, and security systems.

Connected devices can be controlled directly via Ethernet, and those that require a serial, IR, or other hardware interface can be integrated via decentralized control ports on a DM NVX® encoder/decoder, **DM®** transmitter or receiver, CEN-CI3 series interface, or the CEN-IO wired and wireless series of I/O modules. Cresnet® network devices can be integrated via a DIN-CENCN-2 bridge, and wireless Crestron devices can also be integrated via an infiNET EX® wireless gateway.

Crestron Virtual Control supports server redundancy for increased reliability. For large buildings, Crestron Virtual Control streamlines deployment and maintenance by allowing a single program to be deployed across multiple rooms.

Support for C#, SIMPL, and SIMPL#Pro programming languages gives programmers design flexibility and enables programs to be shared with hardware-based control systems.

Crestron Virtual control also employs enterprise-grade security to ensure maximum reliability and privacy.

Crestron Virtual Control is sold through Authorized Crestron Dealers, and requires installation on a customer-supplied server running a supported Linux® server operating system.

Licensing

The Crestron Virtual Control licensing model is similar to a traditional hardware purchase model: purchase a specified number of room licenses, and the Crestron Virtual Control installation will run the number of rooms purchased. Each room license also includes one software mobility license (SW-MOBILITY) that enables functionality for various Crestron software solutions.

NOTE: The VC-4 server requires access to the XiO Cloud® service to validate its licenses. An active XiO Cloud account is required, subject to the terms of the Crestron
Cloudware License Agreement1. However, a paid XiO Cloud subscription is not required to manage licenses for a VC-4 server. An XiO Cloud account is not required to run
the VC-4 server during its 90-day trial period. For more information, refer to the XiO Cloud feature page.

Model
VC-4-ROOM
Crestron Virtual Control Server Software – Single-Room License
Available Accessories
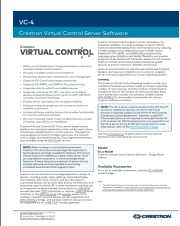For a list of available accessories, visit the VC-4-ROOM product page.

Note:

1. The XiO Cloud® service is licensed under Crestron's Cloudware License Agreement, available at
   www.crestron.com/Legal/software-products-onpremises-and-cloudware/cloudware-license-agreement.

Minimum Server Requirements

Operating System

Red Hat Enterprise Linux® 8.2 software (64-bit version) or greater;
AlmaLinux OS® 8.3 software (64-bit version) or greater;
Rocky Linux™ OS 8.4 software (64-bit version) or greater

NOTE: Version 9.x of any of the listed operating systems is not currently supported.

Network Interface	1 Gbps
Hard Drive	100 GB
Disk Space	100 GB

CPU Cores Required

	Average Devices Per Room																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	8	8	8
100	4	4	4	4	4	4	4	4	4	8	8	8	8	8	8	8	8	8	16	16
200	4	4	4	4	8	8	8	8	8	16										
300	4	4	8	8	8	8														
400	4	4	8	8	16															
500	4	8	8	16																

RAM (GB) Required

	Average Devices Per Room																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50	4	4	8	8	8	16	16	16	16	16	32	32	32	32	32	32	32	32	32	32
100	4	8	16	16	16	32	32	32	32	32	32	64	64	64	64	64	64	64	64	64
200	8	16	32	32	32	64	64	64	64	64										
300	16	32	32	64	64	64														
400	16	32	64	64	64															
500	16	32	64	64																

Documents / Resources

CRESTRON VC-4 Crestron Virtual Control Server Software [pdf] User Manual
VC-4 Crestron Virtual Control Server Software, VC-4, Crestron Virtual Control Server Software, Virtual Control Server Software, Control Server Software, Server Software, Software

References

- 🖙 **Our Locations [Crestron Electronics, Inc.]**
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- 🖙 **CEN-IO-COM-202 [Crestron Electronics, Inc.]**
- 🖙 **DIN-CENCN-2 [Crestron Electronics, Inc.]**
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- 🖙 **Standard Terms & Conditions and Warranties [Crestron Electronics, Inc.]**