

Crestron Virtual Control Server Software

Crestron VIRTUAL CONTROL

- Offers a centralized server-based alternative to individual hardware-based control systems
- Provides a virtual control system for each room
- 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
- 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.

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 Red Hat Enterprise 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.

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. For more information, refer to the [XiO Cloud feature page](#).

Use the [provided form](#) to add Crestron Virtual Control licenses to your XiO Cloud service account.

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-on-premises-and-cloudware/cloudware-license-agreement.

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This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

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The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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Minimum Server Requirements

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