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vtLicense-G3 Network License Servers

The vtLicense-G3 server is a compact network appliance that provides virtual Alpha and VAX host systems ('vtServers') with network access to license keys. When used in conjunction with redundant host hardware, vtLicense servers provide the framework for high availability, disaster-resilient computing environments.

How Bare Metal License Validation Works

The right to use vtAlpha and vtVAX Bare Metal virtualization products is validated using information registered in a USB memory device (aka 'key' or 'dongle'). Each vtAlpha and vtVAX instance is allocated a license at start-up and checks periodically thereafter to ensure that a valid license is still accessible.

In most cases, the USB key is installed in an available USB port on the vtServer host PC. However, it may be necessary to physically move a USB device if host migration is initiated (e.g., VMware vMotion). In other cases, especially when the host system is itself a virtual machine, a direct-attached USB port may not be available. In other cases, customers may request strict physical security for the USB devices to deter accidental or unauthorized removal.

vtLicense Servers Provide Flexible, Secure Configurations

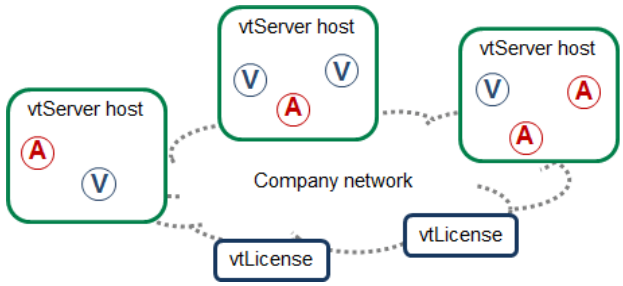
vtLicense servers address all these configuration issues by providing network access to the USB-based licenses, which can be simultaneously accessed by multiple host systems. If the virtual Alpha or VAX instances are moved to a new host, their assigned license will be accessible via the network without any additional physical intervention, minimizing the reconfiguration time.

vtLicense servers are managed remotely using a web browser interface similar to vtMonitor. This facilitates remote placement of the units to minimize impact in the event of a physical disaster.

vtLicense servers contain at least (1) internal USB port that can be accessed only by removing the unit cover, providing enhanced physical security for the license contents.

vtLicense Servers Provide Reliability and Redundancy

Besides adding flexibility and security to datacenter configurations, vtLicense servers can be used to increase the uptime of your virtual VAX and Alpha systems. The following diagram shows an example of a redundant, high-availability configuration. To achieve maximum redundancy and availability, the various hardware components should be distributed across multiple network segments.



Each vtServer host may run one or more vtAlpha and vtVAX instances. These instances may be either production or 'disaster recovery' instances. Additional host hardware can be provisioned to allow these instances to failover to backup systems, either with manual intervention or automatically. When used with vtLicense servers, the vtAlpha and vtVAX instances will automatically discover their licenses across the network.

Redundant vtLicense servers and license keys are the final element in forming a configuration with no single point of failure. To allow for cost-effective disaster-resilient configurations, vtAlpha and vtVAX reduced-cost failover licenses are available. These **Disaster Recovery Licenses** provide 30 days of run-time consumed in 10-minute increments with no expiration date.

vtLicense-G3 is provided in a 1U, 9.8 inch (249 mm) deep rack-mountable enclosure. All connections are on the rear panel of the unit; operator controls and status indicators are located on the front panel. vtLicense-G3-01/03/05 has one (1) external and three (3) internal USB ports; vtLicense-G3-02/04/06 has three (3) external and one (1) internal USB port.

The vtLicense-G3 comes with four (4) Ethernet ports that can be configured as a Network Bond with two (2) or more ports (eth0 – eth3). In an "active-backup" mode, they can be used as failover should the primary link go down.

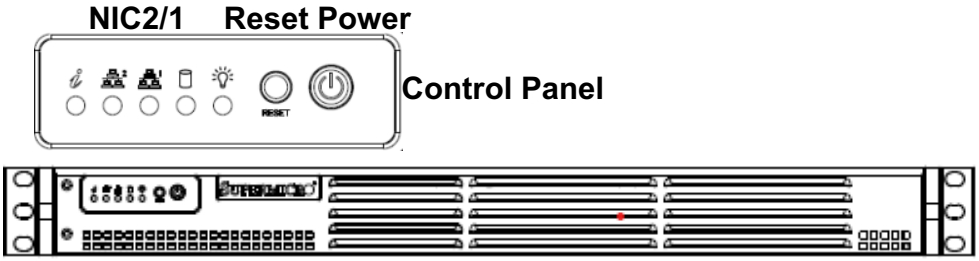
vtLicense-G3 Optional Storage

The vtLicense server can be purchased with either a 500GB or 1TB SATA III SSD disk drive to be used for external NFS storage for the vtServer(s). The vtLicense server will be configured to be an NFS server and the vtServer will need to be configured to see the remote NFS storage on the vtLicense server. The vtLicense storage can be used for vtAlpha or vtVAX 'live data' such as virtual disks, virtual tapes and VMS Shadowing. The vtLicense storage option can also be used to store compressed virtual disk and virtual tapes for Data Recovery in case of a vtServer failure or for other archive functions.

Part Number	USB Internal	USB External	SSD Disk 500GB	SSD Disk 1TB
vtLicense-G3-01	X			
vtLicense-G3-02		X		
vtLicense-G3-03	X		X	
vtLicense-G3-04		X	X	
vtLicense-G3-05	X			X
vtLicense-G3-06		X		X

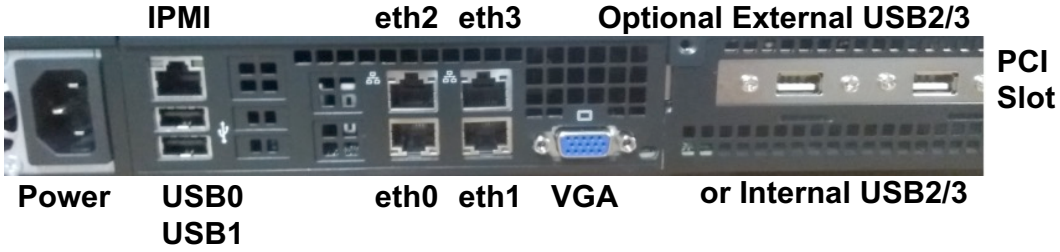
vtLicense-G3 Hardware

Front



To power off the unit, press and hold the power button for 7 seconds.

Rear



The external USB ports support both vtAlpha and vtVAX license keys. The vtLicense-G3-02/04/06 has two (2) USB ports (shown in closeup below) in the position labeled “PCI slot” in the picture above.

PN# vtLicense-G3-01/3/5 2-USB Internal
PN# vtLicense-G3-02/4/6 2-USB External

The vtLicense server has four (4) Ethernet interfaces to provide redundant network connectivity. If connected, the 2nd, 3rd, and 4th interfaces are used as fail-over if the primary network connection is lost.

vtLicense-G3 Optional storage: 1-Disk 500GB or 1-Disk 1TB 2.5” SSD SATA III can be used as remote NFS storage for vtServer ‘live’ virtual disks & virtual tapes & VMS Shadowing, or to store compressed data for data recovery or archive.

PN# vtLicense-G3-03/4 1-Disk 500GB
PN# vtLicense-G3-05/6 1-Disk 1TB

Chassis	
Form Factor	1U Rackmount
Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	9.8" (249mm)
Gross Weight	10 lbs (4.5kg)

Front Panel	
Buttons	Power On/Off button
	System Reset button
LEDs	Power LED
	Hard Drive activity LED
	2x Network activity LEDs
	System Overheat LED

Power Supply	
AC Voltage	100-240VAC
	50-60Hz
	4-2 Amps
DC Voltage	+5VSB 2 Amps
	+12V 16 Amps
	+5V 8 Amps
	+3.3V 8 Amps
	-12V 0.5 Amps