

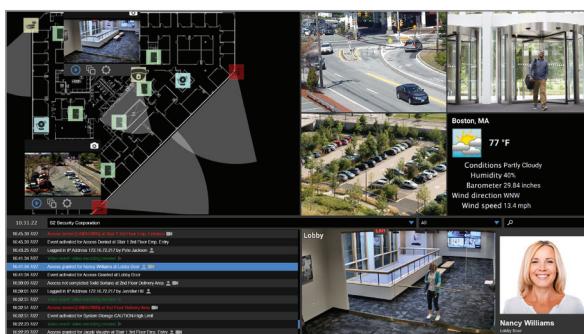
# NetBox Virtual Machine

## Overview

The powerful, browser-based NetBox™ Virtual Machine access control and event monitoring system can be installed on user-preferred hardware. The highly scalable system supports a wide range of deployments and enables users to build a system supporting over 7,000 portals and more than 500 LenelS2 Nodes. Optional system partitioning allows the entire database to be separated into multiple smaller systems for entities such as field offices or tenants.

Features such as person record and cardholder management, event and alarm monitoring, threat level escalation and reporting are accessible from any web browser. The NetBox Virtual Machine system works with existing infrastructure and peripheral devices, making it easy to deploy. In addition, the NetBox Virtual Machine system tightly integrates with LenelS2 VRx™ and NetVR™ video management systems, providing unified system management and administration. Integration with third-party video management systems is also supported.

The NetBox Virtual Machine system is ideal for organizations that choose to implement an access control solution on their preferred hardware platform. Distributed organizations can centrally manage multiple NetBox Virtual Machine controllers with a NetBox Global server, allowing for nearly unlimited scalability.



The LenelS2 Magic Monitor® client provides a unified access control and video surveillance experience.

## Key Features

### Access Control

- Portals:** Supports up to 7,168 doors or other access points
- Event and Alarm Monitoring:** Includes comprehensive event logging, notification and escalation
- Threat Level Management:** Provides configurable system status and response actions such as system lock downs
- Person Record Management:** Maintains detailed, credential-driven user records and access history
- Reporting:** Offers predefined and custom reports

### System

- Custom Access Control Solution:** Operates on a user-preferred hardware platform<sup>1</sup>
- Web Interface:** Delivers browser-based, unified system management and administration
- Video Integration:** Works with LenelS2 VRx and NetVR video management systems and third-party video systems
- API Support:** Integrates with third-party products such as human resource databases via an open source API
- Automated System Management:** Automatically discovers LenelS2 Nodes and handles system backups
- Mobile Apps:** Enables mobile security management, mobile credentials and more
- System Partitioning Option:** Allows the entire database to be separated into multiple smaller systems

# NetBox Virtual Machine - Specifications

Portal Capacity: 16 to 127

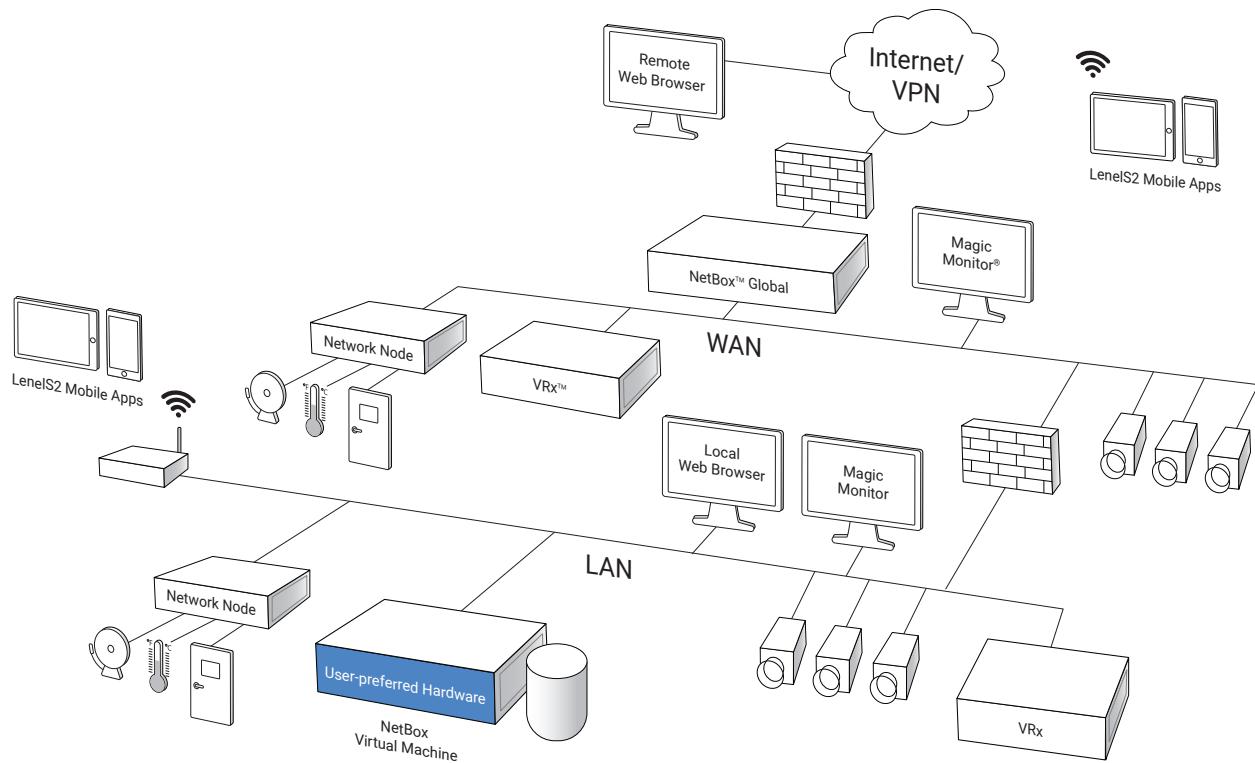
Portal Capacity: 128 to 7,168

Access Control	
Cardholders	40,000
Access Levels	Unlimited
Unique User Roles	16
Simultaneous Users	10
Time Specifications	512
Portal Capacity	127
LenelS2 Node Capacity <sup>2</sup>	64
Maximum Inputs / Outputs	2,000 / 2,000
Online Transactions	Up to 40 million records
Client Requirements	
Operating System	Any
Browser <sup>3</sup>	Chrome™, Internet Explorer®, Firefox® and Safari®*
Processor	Intel® Core™ i3 or higher
Memory (RAM)	8GB minimum
Hard Drive	100GB minimum
Minimum Provisioning Requirements	
Storage Capacity	64GB / 128 GB / 1TB Virtual Disk
Processor	4 / 4 / 8 Virtual CPUs
Memory (RAM)	8GB / 16GB / 32GB
Ethernet Ports	1
Server Host Options	VMWare ESXi v6.5 or later, HyperV v10.0.17763.1 or later
LenelS2 Hardware	Minimum of 1 MicroNode Plus, Network Node, Network Node VR, Network Node VRx or Mercury IC
Warranty	1 year, software
Integrations <sup>4</sup>	
Video Management	VRx, NetVR and other major VMS manufacturers
VRx/NetVR Capacity	16
VRx/NetVR Camera Capacity	1,024
Concurrent LenelS2 Client Connections (NetBox, Magic Monitor, Mobile Security Professional®)	10
Third-Party VMS Camera Capacity	256
Access Control	Allegion, ASSA ABLOY, dormakaba, and Mercury
Intrusion	Bosch, DMP, API-Based
Part Numbers	
S2-NBVM-16	Includes 16 portal license (Virtual machine)
S2-NBVM-32	Includes 32 portal license (Virtual machine)
S2-NBVM-64	Includes 64 portal license (Virtual machine)
S2-NBHV-16	Includes 16 portal license (HyperV)
S2-NBHV-32	Includes 32 portal license (HyperV)
S2-NBHV-64	Includes 64 portal license (HyperV)

Portal licenses expandable in 64 portal increments to 7,168 portals. Refer to price book for additional part numbers.

Access Control	
Cardholders	150,000
Access Levels	Unlimited
Unique User Roles	16
Simultaneous Users	35
Time Specifications	512
Portal Capacity	7,168
LenelS2 Node Capacity <sup>2</sup>	512
Maximum Inputs / Outputs	2,000 / 2,000
Online Transactions	Up to 400 million records
Client Requirements	
Operating System	Any
Browser <sup>3</sup>	Chrome, Internet Explorer, Firefox and Safari
Processor	Intel Core i3 or higher
Memory (RAM)	8GB minimum
Hard Drive	100GB minimum
Minimum Provisioning Requirements	
Storage Capacity	1TB Virtual Disk
Processor	8 Virtual CPUs
Memory (RAM)	32GB
Ethernet Ports	1
Server Host Options	VMWare ESXi v6.5 or later, HyperV v10.0.17763.1 or later
LenelS2 Hardware	Minimum of 1 MicroNode Plus, Network Node, Network Node VR, Network Node VRx or Mercury IC
Warranty	1 year, software
Integrations <sup>4</sup>	
Video Management	VRx, NetVR and other major VMS manufacturers
VRx/NetVR Capacity	128
VRx/NetVR Camera Capacity	4,096
Concurrent LenelS2 Client Connections (NetBox, Magic Monitor, Mobile Security Professional®)	35
Third-Party VMS Camera Capacity	1,024
Access Control	Allegion, ASSA ABLOY, dormakaba, and Mercury
Intrusion	Bosch, DMP, API-Based
Part Numbers	
S2-NBVM-128	Includes 128 portal license (Virtual machine)
S2-NR64	64 portal expansion
S2-NBHV-128	Includes 128 portal license (HyperV)

Portal licenses expandable in 64 portal increments to 7,168 portals. Refer to price book for additional part numbers.



*Schematic only. Not a network diagram.*

<sup>1</sup> User-preferred hardware must meet minimum provisioning requirements.

<sup>2</sup> Network Node capacity may vary depending on system design.

<sup>3</sup> Refer to the latest Release Notes for browser version compatibility.

<sup>4</sup> For additional integration information, please contact us.



For more information, please visit [lenels2.com](http://lenels2.com).

Specifications subject to change without notice.

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