

Enterprise System

ENTMAS or ENTMAS-LT Server

Recommended Specifications, Configuration 5G

Chassis Type	Dell® PowerEdge® R740 (2U Rackmount)
CPU	Intel® Xeon® Silver 4108 1.8GB, 8C/16T, 9.6GT/s, 11M Cache, Turbo, HT (85W) DDR4-2400
Operating System	Microsoft® Windows® Server 2016 Standard Edition
RAM	(2) x 8GB, 2666MT/s, Single Rank
Onboard NICs	BROADCOM® 5720 QP 1GB Network Daughter Card
Optical Drive	DVD+/-RW, Serial ATA, Internal
Backplane	1 x 8 Backplane for 2.5-inch Hard Drives
RAID Controller	PERC H740 Integrated RAID Controller, 8GB NV Cache
Operating System Drive(s)	(2) M.2 240GB OS Drives (RAID 1)
Data Drive(s)	(5) x 300GB 15K RPM SAS 12 Gbps 512n 2.5in Hot-plug Hard Drive (RAID 5)
Hard-disk Backup Drive	RD1000 500GB Native/1TB Comp; Removable Ext USB 3.0 Drive Bundled with SW/CBL
RISER	Riser Config 1, 4 x 8 slots
Video Graphics Card	Matrox G200eW3 Graphics Module
Serial Port	(1) Serial Port
USB Ports	Front: (1) USB 3.0, (2) USB 2.0, (1) Dedicated iDRAC direct USB, (1) Video; Rear: (2) USB 3.0, (1) Serial, (1) Dedicated iDRAC network port, (1) Video
Power	Dual, Hot-plug, Redundant Power Supply (1+1), 750W
Rail Kit	Sliding Ready Rails with Cable Management Arm
Warranty	3-year limited warranty

Regional Servers

SWS-ENTREG1 uses Configuration 5D

SWS-ENTREG-LT uses Configuration 5D

SWS-ENTREG-SM uses Configuration 3 or 4

Redundancy Options

NEC® Express 5800/R320e Fault Tolerant Server

NEC ExpressCluster® X R3.3 (LAN or WAN) Disaster Recovery Software

Standard Features

- First year Software Upgrade and Support Plan (SUSP) included
- Browser-based Lenel® Console application dashboard
- Browser-based Users client for system administration
- Alarm monitoring
- MapDesigner
- System Administration
- VideoViewer (video only, web)
- CCTV interface
- eMail interface
- Event logging
- Anti-Passback
- Guard tour
- Support for BlueDiamond™ mobile credentials



Browser-Based Applications

- Monitor & Credentials bundle
- Access Manager
- Surveillance
- Visitor
- WATCH (Web Access Trending & Comprehensive Health)
- Cardholder Self Service
- Policies

Software (Optional)

- Visitor Self Service
- Area Access Manager
- DataConduIT™
- ID CredentialCenter
- Visitor IDVM
- Data Exchange
- FormsDesigner
- Biometrics / Smart Cards
- Fire panel support
- Intrusion panel support
- Business card / Driver's license / Military ID / Passport scanning
- Elevator integration
- Intercom
- Mustering
- Terminal services support
- Database segmentation
- Redundant Server Licensing

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Enterprise Client

Recommended Specifications	Configuration 6J	Configuration 7G High Performance
Chassis Type	Dell OptiPlex™ 3070 Small Form Factor	Dell Precision™ Tower 5810 XCTO
CPU	Intel® Core™ i3-9100 (4 Cores, 6MB, 4T, 3.6GHz to 4.2 GHz, 65W)	Intel® Xeon® Processor E5-1620 v4 (4C, 3.5GHz, 3.8GHz Turbo, 2400MHz, 10MB Cache, 140W)
Operating System	Windows® 10 IoT Enterprise 2016 EMB	Windows® 10 IoT EMB Ent 2015
RAM	4GB (1 x 4GB) DDR4 2666MHz UDIMM Non-ECC	8GB (2 x 4GB) 2400MHz, DDR4 RDIMM ECC
Onboard NICs	RJ45 Ethernet port	RJ45 Ethernet port
Wireless NIC	-	-
Modem	-	-
Optical Drive	8x DVD+/-RW 9.5mm Optical Disk Drive	8X DVD+/-RW
Operating System Drive(s)	500GB 2.5inch Serial ATA (7,200 Rpm) Hard Drive	2.5inch 512GB SATA Class 30 Solid State Drive
Video Graphics Card	Intel Integrated Graphics, Dell OptiPlex, DisplayPort to DVI Single-Link	AMD FirePro™ W7100 8G (4DP) (3 DP to SL-DVI adapters)
Serial Port	-	(1) Serial Port
Ports	External: (8) USB Ports including (4) USB 3.1 Gen 1 Type-A Ports (2 front/2 rear) and (4) USB 2.0 Ports (2 front/2 rear); Internal: (1) RJ45, (1) Display Port; (1) HDMI; (1) Universal Audio Jack; (1) Line-out	Front: (3) USB 2.0, (1) USB 3.0, (1) Microphone, (1) Headphone; Internal: (3) USB 2.0, (4) SATA 6GB/s, (2) SATA 6GB/s (for optical drive(s)); Rear: (3) USB 2.0, (3) USB 3.0, (2) PS2, (1) RJ45 (Intel Gigabit Ethernet)
Audio	Internal speaker	Internal chassis speakers
Power	OptiPlex 3070 Small Form Factor with 200W up to 85% efficient power supply (80 Plus™ Bronze)	685W
Mouse/Keyboard	Yes	Yes
Hardware Warranty	3-year limited warranty (DOES NOT INCLUDE MONITOR)	3-year limited warranty
Surge Suppressor	Yes	Yes

System Capacities

Type of System	MASTER		REGION		
	SWS-ENTMAS-LT	SWS-ENTMAS1	SWS-ENTREG-SM	SWS-ENTREG-LT	SWS-ENTREG1
Holidays / Time Zones (per segment, each)	255	255	255	255	255
Alarm Inputs / Outputs	Unlimited*	Unlimited*	Unlimited*	Unlimited*	Unlimited*
Access Levels (per segment)	32,000	32,000	32,000	32,000	32,000
Max Number of Regions Allowed	8	10	N/A	N/A	N/A
Reader Capacity Base	64	128	16	64	128
MAX Reader Capacity Per System / Upgrade Part	512 (PRO-64RUP)	Unlimited* (PRO-64RUP)	32 (REGSM-16RUP)	256 (64ADV-64RUP)	Unlimited* (PRO-64RUP)
MAX Client Workstations	10	Unlimited*	5	10	Unlimited*
MAX Browser Clients	10	Unlimited*	5	10	Unlimited*

*OnGuard® offers you scalability that is only limited by the physical limitations of your system size.

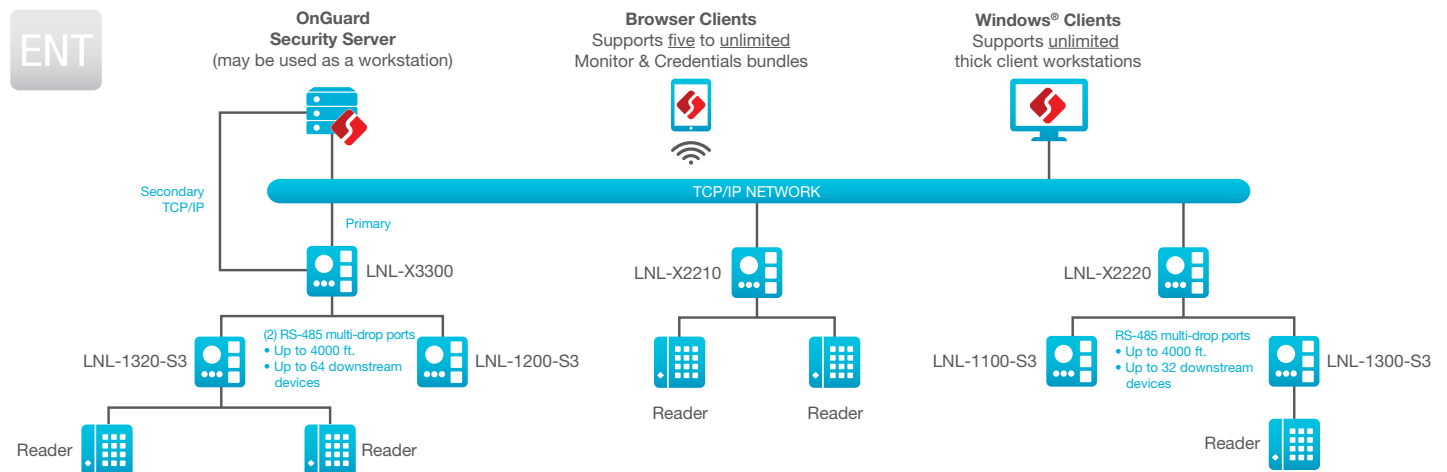
Enterprise System

Type of System	SWS-ENTMAS-LT	SWS-ENTMAS1	SWS-ENTREG-SM	SWS-ENTREG-LT	SWS-ENTREG1
Types of Thick Clients Allowed (clients start with SWC)	ADV, IDADV & ADVI	ADV, IDADV & ADVI	32ES & IDES & 32ESI	ADV, IDADV & ADVI	ADV, IDADV & ADVI
MAX Readers allowed per entire Enterprise System**	512	Unlimited*	N/A	N/A	N/A
SQL Server Standard Edition & Enterprise Edition Support***	Unlimited*	Unlimited*	Unlimited*	Unlimited*	Unlimited*
Recommended # of Cardholders	50,000 (max)	Unlimited*	25,000 (max)	50,000 (max)	Unlimited*
Oracle Support***	Yes (SWG-1295)	Yes (SWG-1295)	Yes (SWG-1293)	Yes (SWG-1293)	Yes (SWG-1293)
Redundant or Fault Tolerant Support and Part Number	SWS-ENTMAS-LT-REDU	SWS-ENTMAS1-REDU	SWS-ENTREG-SM-REDU	SWS-ENTREG-LT-REDU	SWS-ENTREG1-REDU
VM Ware Support***	Yes	Yes	Yes	Yes	Yes
Citrix Support (SWG-1370)	Yes	Yes	Yes	Yes	Yes
Database Segmentation Support (SWG-1240)	Standard	Standard	Standard	Standard	Standard
Base SUSP Part Number	SUSP-W-EN-LT	SUSP-W-ENT	SUSP-W-ENT-SM	SUSP-W-ENT-REG	SUSP-W-ENT-REG

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**System-level MAX that includes the sum of all readers in the Enterprise. For example: Starting with an ENTMAS-LT master server with 2 ENTREG-LT regional servers = 192 readers (64 readers per server by default). Expand an additional 320 readers before having to upgrade to an ENTMAS1 with unlimited reader support.

*** See compatibility chart for full list of Databases, Operating Systems and which VMWare versions are supported by OnGuard



Enterprise System

UL-Listed Enclosures and Power Supplies

LNL-CTX	Enclosure with lock and tamper switch, supports up to two (2) field hardware devices (12" x 16" x 4.5")
LNL-CTX-6	Enclosure with lock and tamper switch, supports up to six (6) field hardware devices (18" x 24" x 4.5")
LNL-AL400ULX	12VDC 4A output, 120VAC (1.6 amps) input, continuous supply current with enclosure (18" x 24" x 4.5"), lock/tamper switch, UPS capable (battery optional)
LNL-AL600ULX-4CB6	12VDC 6A output, 120VAC (1.6 amps) input, continuous supply current with enclosure (12" x 16" x 4.5"), power distribution module, lock and tamper switch, UPS capable (battery optional)

Server Upgrades

Part #	Path
UPS-SMREG	ENT Regional SM server to ENT Regional Lite Server
UPS-LTREG1	ENT Regional Lite server to ENT Regional Server
UPS-LTMAS1	ENT Master Lite Server to ENT Master Server

Peripheral Hardware

Direct Card Printer Support

OnGuard® supports the following printer brands: Zebra®, MAGICARD®, NISCA®, and Fargo®. Specific models support inline iCLASS®, MIFARE®, and magnetic stripe encoding.

Lenel USB Image Capture Kit

This kit includes a high resolution CCD (NTSC or PAL) camera with software zoom capabilities, a fully-synchronized cool white built-in flash, a tripod system with a powered base, TWAIN-compliant software, a USB communication cable and a universal power cable. The camera is USB 2.0-compliant, producing high resolution live video for image capture using the OnGuard ID CredentialCenter application (any badging client or mobile badging station). The built-in flash illuminates both video fields evenly.



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Specifications subject to change without notice.

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2020/02