

# Enterprise System

### **ENTMAS or ENTMAS-LT Server**

Recommended Specificat	ions, Configuration 5D
Chassis Type	Dell PowerEdge R730 (2U Rackmount)
CPU	Intel® Xeon® E5-2620 Quad Core 2.4GHz 15MB Cache
Operating System	Windows® Server 2012 R2 Standard Edition
RAM	16GB (2 x 8GB) 2133MHz
Onboard NICs	BROADCOM® 5720 QP 1GB Network Daughter Card
Optical Drive	DVD+/-RW SATA, Internal
Backplane	1 x 8 Backplane for 2.5inch Hard Drives
RAID Controller	PERC H730 Integrated RAID Controller, 1GB Cache
Operating System Drive(s)	(5) x 300GB 15K RPM SAS 2.5inch Hot-plug Hard Drive
Data Drive(s)	(5) x 300GB 15K RPM SAS 2.5inch Hot-plug Hard Drive
Hard-disk Backup Drive	RD1000, 500GB Native/1TB Comp Removable Hard Drive Cartridge
RISER	R730/xd PCIe Riser 2, Center. R730 PCIe Riser 3, Left. R730 PCIe Riser 1 filler Blank, Right
Video Graphics Card	Onboard Intel® HD Graphics 4500
Serial Port	(1) Serial Port
USB Ports	(4) USB 2.0 ports
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
- · Alarm monitoring
- · Chromakey/Ghosting (ID only)
- MapDesigner
- System administration
- · VideoViewer (video only, web)
- · CCTV interface
- · E-mail interface
- Event logging
- · Anti-Passback
- Guard tour

### Applications (Optional)

- · Browser-based clients
- · Area Access Manager
- · OpenAccess Web Services API
- DataCondulT
- · ID CredentialCenter
- VideoManager
- Visitor
- DataExchange
- FormsDesigner
- Support for OnGuard® modules (see separate datasheet)

### Software (Optional)

- Biometrics/Smart Cards
- Fire & Intrusion
- · Barco video wall integration
- Business card / Driver's license / Military ID / Passport scanning
- Elevator integration
- · Intercom
- · Intelligent video (live)
- Mustering
- OPC Server / Client
- VideoVerification
- · Terminal services support
- · Database segmentation
- Redundant Server Licensing





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## **Enterprise Client**

See chart below for client support.

Recommended Specifications	Configuration 6H	Configuration 7F High Performance
Chassis Type	Dell OptiPlex 3040 Small Form Factor	Dell Precision Tower 5810 XCTO
CPU	Intel® Core i3-6100 Processor (Dual Core, 3MB Cache, 4T, 3.7GHz, 65W)	Intel® Xeon® Processor E5-1620 v4 (4C, 3.5GHz, 3.8GHz Turbo, 2400MHz, 10MB Cache, 140W)
Operating System	Windows® 10 IoT EMB Ent 2015	Windows 10 IoT EMB Ent 2105
RAM	4GB (1 x 4GB) 2400 MHz DDR4 Memory	8GB (2 x 4GB) 2400MHz DDR4 RDIMM ECC
Onboard NICs	RJ45 Ethernet port	RJ45 Ethernet port
Wireless NIC	-	-
Modem	-	-
Optical Drive	8X Slimline DVD+/-RW	8X Slimline DVD+/-RW Drive
Operating System Drive(s)	500GB 2.5inch Serial ATA (7,200 Rpm) Hard Drive	512GB 2.5inch SATA Class 30 Solid State Drive
Video Graphics Card	AMD Radeon™ R5 430 (2GB DP/DVI-I)	AMD FirePro™ W7100 (4DP) (3 DP to SL-DVI adapters)
Serial Port	-	(1) Serial Port
Ports	(6) External USB 3.1 Gen 1 (2 front/2 rear) and (2) x 2.0 (2 rear), (1) RJ45, Display Port 1.21, HDMI 1.41, Universal Audio Jack1 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 chassis speakers	Internal chassis speakers
Power	240W	685W
Mouse/Keyboard	Yes	Yes
Warranty	3-year limited warranty [DOES NOT INCLUDE MONITOR]	3-year limited warranty
Surge Suppressor	Yes	Yes

# **System Capacities**

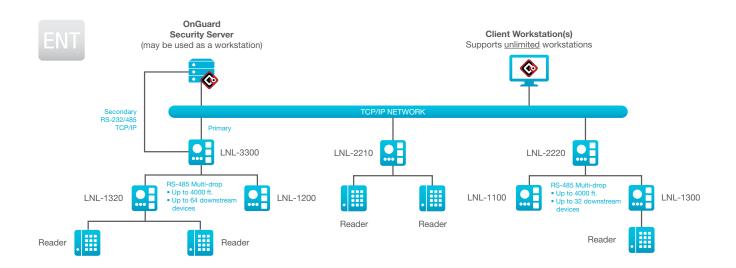
	MASTER			REGION	
Type of System	SWS-ENTMAS-LT	SWS-ENTMAS1	SWS-ENTREG-SM	SWS-ENTREG-LT	SWS-ENTREG1
Holidays / Time Zones	255 (per segment, each)	255 (per segment, each)	255 (per segment, each)	255 (per segment, each)	255 (per segment, each)
Alarm Inputs / Outputs	Unlimited*	Unlimited*	Unlimited*	Unlimited*	Unlimited*
Access Levels	32,000 per segment	32,000 per segment	32,000 per segment	32,000 per segment	32,000 per segment
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*

# **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
Recommended # of Cardholders	50,000 (max)	Unlimited*	25,000 (max)	50,000 (max)	Unlimited*
MAX Number of ILS Locks Allowed Per System	Unlimited*	Unlimited*	128	1024	Unlimited*
SQL Server Standard Edition & Enterprise Edition support**	Yes	Yes	Yes	Yes	Yes
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

MAX Readers allowed per entire Enterprise System - This is a 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.

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



<sup>\*</sup>OnGuard® offers you scalability that is only limited by the physical limitations of your system size.

# **Enterprise System**

### Peripheral Hardware and Readers

#### **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

Included is 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.

### **Enclosures and Power Supplies**

#### **UL-Listed Enclosures and Power Supplies**

 $\underline{LNL\text{-}CTX}$  – Enclosure with lock and tamper switch, supports up to two (2) field hardware devices (12" x 16" x 4.5")

<u>LNL-CTX-6</u> - Enclosure with lock and tamper switch, supports up to six (6) field hardware devices (18" x 24" x 4.5")

<u>LNL-AL400ULX</u> – 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)

<u>LNL-AL600ULX-4CB6</u> - 12VDC 6A output, 120VAC (1.6 amps) input, continuous supply current with enclosure (12"  $\times$  16"  $\times$  4.5"), power distribution module, lock and tamper switch, UPS capable (battery optional)

### Upgrade Part Number

Server Upgrade	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



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Specifications subject to change without notice.

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