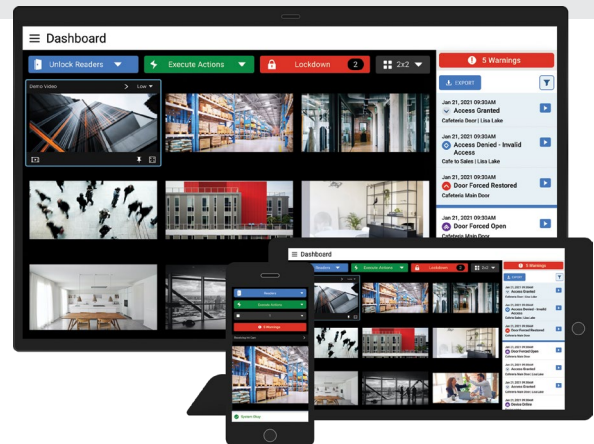


Elements

Security in its simplest form



Overview

The LenelS2™ Elements™ solution is a comprehensive, intuitive access control and video solution built for the cloud. The Elements solution is a scalable solution that's ideal for cloud-first organizations and those needing to replace aging servers and software. The solution is available as a standalone solution but can also integrate with the OnGuard® access control platform using the Elements OnGuard Connector to extend enterprise-level security to any building or office.

User Interface: The Elements web portal – the user interface – is simple and intuitive for users of any background. The web portal is designed to be accessible and usable from any device including mobile phones and browsers.

Video Recorder: Designed specifically for the Elements solution, the Elements Video Recorder provides a cost-effective, high performance on-premise video storage solution, which enables secure access to video from anywhere and at any time via the cloud.

Mercury Controllers: All Elements controllers and reader interfaces are provided by Mercury Security, delivering secure communications from readers to the cloud.

BlueDiamond Readers: LenelS2 BlueDiamond™ readers provide a feature-rich reader platform with support for Wiegand, OSDP™ and OSDP Secure Channel protocol. Simultaneous support for a wide range of smart cards including HID iCLASS®, MIFARE® and DESFire® EV1 and EV2.

Mobile Credentials: A smart alternative to plastic badges, mobile credentials enabled through the BlueDiamond mobile app offer convenience without compromising security. Credentials can be easily allocated to new phones or people, and remotely deactivated all from within the Elements user interface.

Key Features

Cloud-based Access Control and Video Management Solution

- Mobile first: full solution access to monitor and manage your solution from any mobile device
- Enterprise ready: scalability of solution through use of the Elements OnGuard Connector
- Event monitoring: know what's happening with your system from any device, anytime, anywhere
- Role-based access control: detailed credential-driven roles and permissions for users
- Command and control: grant temporary access or lock doors from a mobile device
- Real-time hardware events: interact and monitor the Elements access control solution in real time, from anywhere
- Reporting: export activity and audit transactions for archiving and forensic analysis
- Native video integration: integrates exclusively with the Elements access control solution for unified system management
- Video viewing: perform live monitoring or recorded playback from any camera directly from the Elements platform with no browser add-ons, no external VMS, or extra software required
- Video search: easily search recorded video by date and time to quickly find events of interest
- Easy access to video: video is optimized through a peer-to-peer connection or cloud routing allowing real-time video streaming to most mobile phones, tablets and browsers

Web Portal

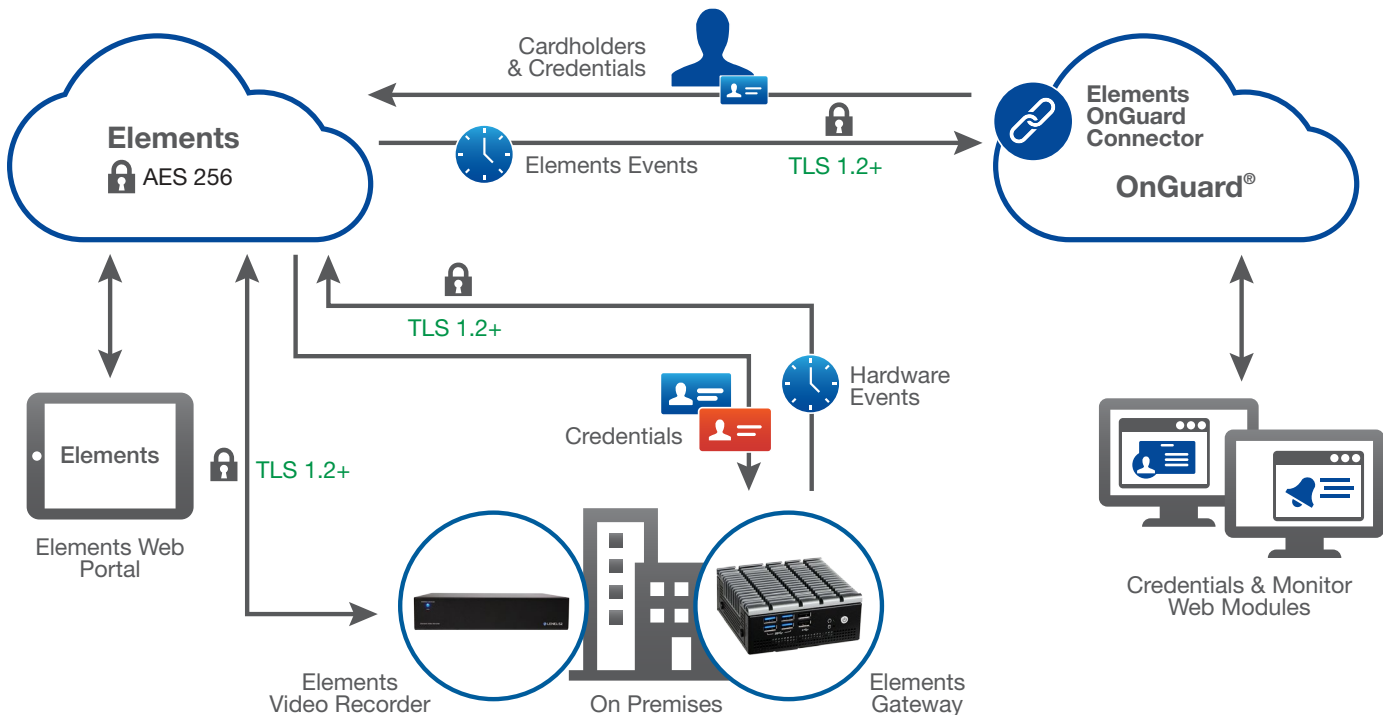
- Simple and intuitive: separate portals for VARs and end users enable managed or self-managed solutions

System

- Integrated BlueDiamond mobile credentialing
- Secure and private by design: robust hardware security and cybersecurity; cloud to card encryption
- Supports Wiegand, OSDP and OSDP Secure Channel readers

Elements

Data flow between the Elements solution and OnGuard system using the Elements OnGuard Connector



Specifications

| Access Control | |
|--------------------------------|---|
| Total number of credentials | 10,000+ |
| Total number of readers | 1,000+ |
| Total number of spaces | Up to 32 per person |
| Total number of controllers | Up to 10 per gateway |
| Total number of card formats | Up to 15 customer-defined card formats per controller |
| Total number of facility codes | Up to 15 facility codes per controller |
| Video | |
| IP cameras | Up to 16 ONVIF profile T cameras per recorder** |
| IP camera resolution | Camera dependent, up to 4K* |
| IP camera frame rate | Camera dependent |
| Compression type | H.264 |
| Storage | 8TB |

*Network data rate may affect performance

**Multiple recorders can be set up per site

Cybersecurity & Privacy

- Data in transit – TLS 1.2+
- Data at rest – AES 256
- CSA Star Level 1
- NIST 800-53 Compliant
- IEC/ANSI/ISA 62433 4-1 Certified
- European Data Protection Board – Approved binding corporate rules
- Annual third-party pen test, by policy
- Third-party static and dynamic application security testing

The Elements solution is a rapidly growing cloud solution. Visit www.lenels2.com for updates.

Elements

Compatible Hardware and Components

| Access Control Hardware | |
|-------------------------|---|
| SAS-GTWY-01 | Elements Gateway |
| LS2-ELEM-X2210 | Intelligent Single Door Controller |
| LS2-ELEM-X2220 | Intelligent Dual Door Controller |
| LS2-ELEM-X3300 | Intelligent System Controller |
| LS2-ELEM-X4420 | Advanced Intelligent Dual Reader Controller |
| LS2-ELEM-1300-S3 | Single Reader Door Interface |
| LS2-ELEM-1320-S3 | Dual Reader Door Interface |
| LS2-ELEM-1100-S3 | Input Control Module |
| LS2-ELEM-1200-S3 | Output Control Module |

Please note EP & LP Series controllers supported.

| Credentials | |
|----------------|---|
| LNL-EV22KPP | DESFire EV2 PVC Credential |
| LNL-EV22KPPFOB | DESFire EV2 Plastic Keyfob 2K 13.56MHz |
| LNL-EV22KPPMG | DESFire EV2 ISO PVC 2K 13.56MHz |
| LNL-EV28KPP | DESFire EV2 ISO Composite 8K 13.56MHz |
| LNL-EV28KPXPP | DESFire EV2 ISO Composite 8K with Proximity Chip Card |
| LNL-EV28KPP | DESFire EV2 ISO Composite 8K 13.56MHz |

| Video Hardware | |
|----------------|--|
| LS2-EVR-100 | Elements Video Recorder, up to 16 IP cameras, 8TB of storage |

| BlueDiamond Mobile-enabled Readers | |
|------------------------------------|--|
| LNL-R11330-05TB | Multi-technology Mini-mullion Reader |
| LNL-R11320-05TB | Multi-technology Standard-size Reader |
| LNL-R11325-05TB | Multi-technology Standard-size Reader with PINpad |
| LNL-R11030-85TB | Multi-technology Prox + Mobile Mini-mullion Reader |

| BlueDiamond Mobile-ready Readers | |
|----------------------------------|--------------------------------------|
| LNL-R10330-05TB | Multi-technology Mini-mullion Reader |

Kits

| Name/SKU | Qty | Hardware | Description |
|---|-----|-----------------|---|
| Elements Two Reader Kit LS2-ELEMENTS-2R | 1 | SAS-GTWY-01 | Elements Gateway to connect LenelS2 panels to Elements Cloud Server |
| | 1 | LNL-X2220 | Intelligent Dual Reader Controller |
| | 1 | LSP-CTX4DR | Power Supply/Enclosure: 20H x 16W, 4DR pre-wired CTX cross-single voltage. Pre-wired for 2 LenelS2 panels on main. 4A 12VDC with FAI, low battery disconnect, network ready, fits 8Ah battery sets, UL CUL, lifetime warranty |
| | 2 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| Elements Four Reader Kit LS2-ELEMENTS-4R | 1 | SAS-GTWY-01 | Elements Gateway to connect LenelS2 panels to Elements Cloud Server |
| | 1 | LNL-X2220 | Intelligent Dual Reader Controller |
| | 1 | LNL-1320-S3 | Dual Reader Interface Module |
| | 1 | LSP-4DR-E4M | Power Supply/Enclosure: 24H x 20W, fits 2 LenelS2 Controllers, 2A 12VDC system and 2A 24VDC lock, 8 aux PTC and 4 lock PTC outputs, fits 8Ah battery sets, UL CUL, lifetime warranty |
| | 4 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| Elements Eight Reader Kit LS2-ELEMENTS-8R | 1 | SAS-GTWY-01 | Elements Gateway to connect LenelS2 panels to Elements Cloud Server |
| | 1 | LNL-X2220 | Intelligent Dual Reader Controller |
| | 3 | LNL-1320-S3 | Dual Reader Interface Module |
| | 1 | LSP-8DR-E4M1 | Power Supply/Enclosure: 24H x 20W, fits 4 LenelS2 Controllers (2 main, 2 door), 4A 12VDC system and 4A 24VDC lock, 8 aux PTC and 8 lock PTC outputs, fits 8Ah battery sets, UL CUL, lifetime warranty |
| | 8 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |

Elements

Kits

| Name/SKU | Qty | Hardware | Description |
|---|--|-----------------|---|
| Elements Sixteen Reader Kit LS2-ELEMENTS-16R | 1 | SAS-GTWY-01 | Elements Gateway to connect LenelS2 panels to Elements Cloud Server |
| | 1 | LNL-X2220 | Intelligent Dual Reader Controller |
| | 7 | LNL-1320-S3 | Dual Reader Interface Module |
| | 1 | LSP-16DR-E6M1 | Power Supply/Enclosure: 30H x 23W, fits 8 LenelS2 Controllers, 12A 12VDC system and 12A 24VDC lock, 16 aux PTC and 16 lock PTC outputs, fits 8Ah battery sets, UL CUL, lifetime warranty |
| Elements One Reader Add-on Kit LS2-ELEMENTS-1R-EX | 16 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| | 1 | LNL-X2210 | Intelligent Single Door Controller, powered by PoE, PoE+ or 12VDC |
| | 1 | LNL-CONV-1 | Plastic Adapter Plate to mount a single LenelS2 controller (LNL-X2210) |
| | 1 | LSP-CTX4DR | Power Supply/Enclosure: 20H x 16W, 4DR pre-wired CTX cross-single voltage. Pre-wired for 2 LenelS2 panels on main. 4A 12VDC with FAI, low battery disconnect, network ready, fits 8Ah battery sets, UL CUL, lifetime warranty |
| Elements Two Reader Add-on Kit LS2-ELEMENTS-2R-EX | 1 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| | 1 | LNL-1320-S3 | Dual Reader Interface Module |
| | 1 | LSP-CTX4DR | Power Supply/Enclosure: 20H x 16W, 4DR pre-wired CTX cross-single voltage. Pre-wired for 2 LenelS2 panels on main. 4A 12VDC with FAI, low battery disconnect, network ready, fits 8Ah battery sets, UL CUL, lifetime warranty |
| | 2 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| Elements Four Reader Add-on Kit LS2-ELEMENTS-4R-EX | 2 | LNL-1320-S3 | Dual Reader Interface Module |
| | 1 | LSP-4DR-E4M | Power Supply/Enclosure: 24H x 20W, fits 2 LenelS2 Controllers, 2A 12VDC system and 2A 24VDC lock, 8 aux PTC and 4 lock PTC outputs, fits 8Ah battery sets, UL CUL, lifetime warranty |
| | 4 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| | 4 | LNL-1320-S3 | Dual Reader Interface Module |
| Elements Eight Reader Add-on Kit LS2-ELEMENTS-8R-EX | 1 | LSP-8DR-E4M1 | Power Supply/Enclosure: 24H x 20W, fits 4 LenelS2 Controllers (2 main, 2 door), 4A 12VDC system and 4A 24VDC lock, 8 aux PTC and 8 lock PTC outputs, fits 8Ah battery sets, UL CUL, lifetime warranty |
| | 8 | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |
| | 8 | LNL-1320-S3 | Dual Reader Interface Module |
| | Elements Sixteen Reader Add-on Kit LS2-ELEMENTS-16R-EX | 1 | LSP-16DR-E6M1 |
| 16 | | LNL-R11330-05TB | BlueDiamond Multi-technology Mini-mullion Reader |



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