OnGuard Physical Access Control Solutions for FICAM

Advanced access control hardware and software designed to meet the latest Federal Identity, Credential and Access Management (FICAM) requirements.

About HSPD-12 and FIPS 201

Homeland Security Presidential Directive 12 (HSPD-12), issued by President George W. Bush on August 27, 2004, mandated the establishment of a standard for the identification of Federal Government employees and contractors.

HSPD-12 requires the use of a common identification credential for both logical and physical access to federally controlled facilities and information systems. The Department of Commerce and NIST were tasked with producing a standard for secure and reliable forms of identification. In response, NIST published Federal Information Processing Standard Publication 201 (FIPS 201), Personal Identity Verification (PIV) of Federal Employees and Contractors, issued on February 25, 2005, and a number of special publications that provide more details on the implementation of the standard.

Both Federal agencies and enterprises have implemented FIPS 201-compliant ID programs and have issued PIV cards. The FIPS 201 PIV card is a smart card with both contact and contactless interfaces that is now being issued for all Federal employees and contractors.

Through the OnGuard® access control system, LenelS2 continues its ongoing commitment to finding new and better ways to facilitate data optimization and enhance security and business operations. Incorporating responsive technology, the OnGuard system delivers an array of functionality, while also accommodating future enhancements.

A total solution for the U.S. Federal Government

LenelS2 is a provider of advanced software and integrated systems. Headquartered in the United States, LenelS2 utilizes the latest software industry practices and standards in the development of its products. With a commitment to innovation, LenelS2 continues to develop solutions that bring together leading-edge technology and the flexibility of open systems architecture to the security management industry.

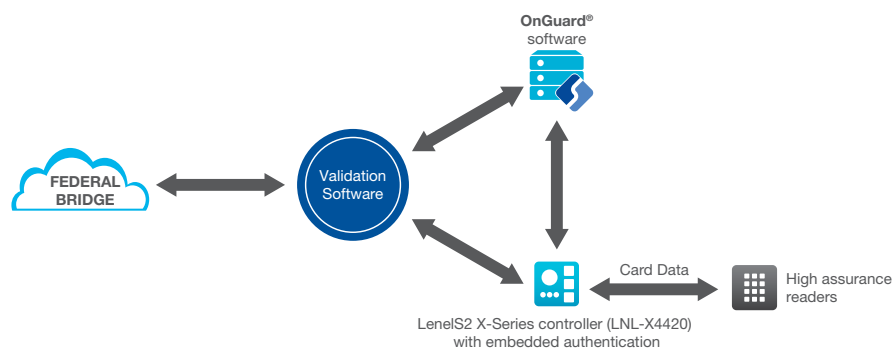## LenelS2 OnGuard access control system

The OnGuard access control platform is constantly evolving to meet the changing mandates and guidelines defined by the National Institute of Standards and Technology (NIST) FIPS 201 as mandated by the Office of Management and Budget (OMB).

OnGuard solution components

The OnGuard FICAM security management solution includes:

- OnGuard software
- LenelS2™ access and door controllers
- FICAM validation software
- High assurance readers

The onboard authentication process

OnGuard® software

FEDERAL BRIDGE

Validation Software

Card Data

High assurance readers

LenelS2 X-Series controller (LNL-X4420) with embedded authentication

Architecture options

- Onboard authentication, ideal for new installations
- Add-on authentication module, perfect for retrofits and architectures where onboard authentication is not available
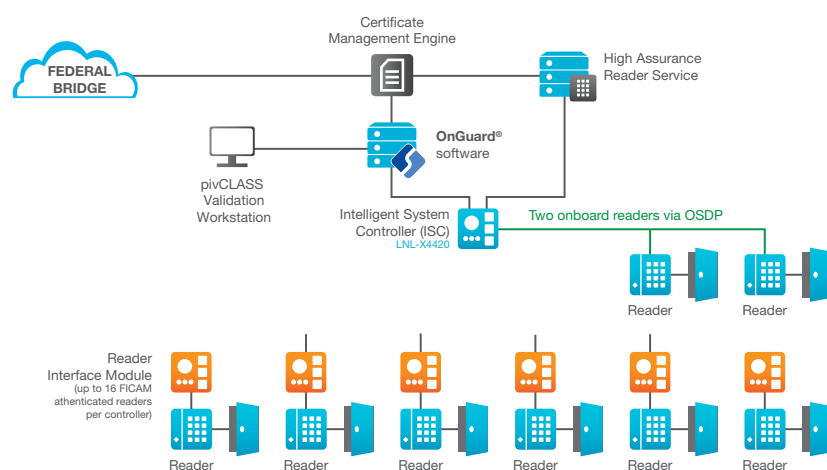
Option 1: Onboard authentication using LenelS2 X-Series controller (LNL-X4420)

APL # 10112

This solution leverages the HID® pivCLASS® solution by using pivCLASS Embedded Authentication directly in the LenelS2 Intelligent System Controller to perform the Public Key Infrastructure (PKI) validation at time of access through the reader. With this solution, no separate pivCLASS Authentication Module (PAM) is required, simplifying installation, reducing the hardware footprint, and lowering overall costs.

With the embedded authentication solution, a total of sixteen FICAM-authenticating readers are supported (two readers onboard the LenelS2 X-Series intelligent system controller [LNL-X4420], as well as expanding with LenelS2 Series 3 downstream Reader Interface Modules).

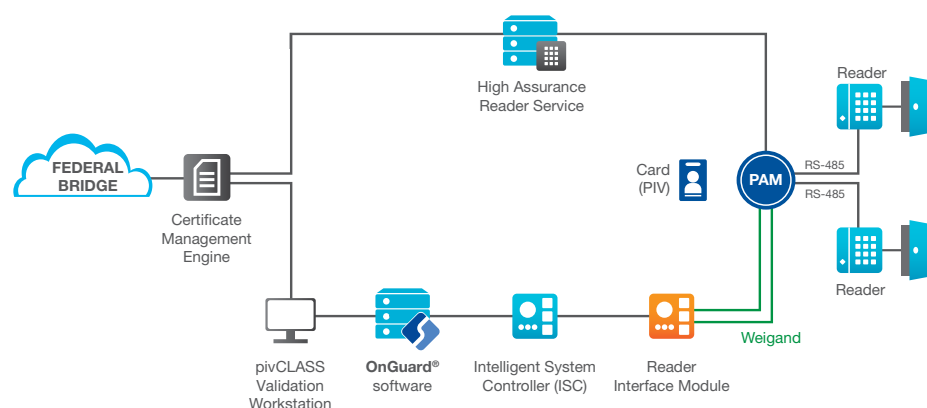| Part #	Description
Base Software	
OnGuard v7.3 and up	Supports OnGuard ES, ADV, PRO, ENT configurations
PVC-CM	pivCLASS Certificate Manager
PVC-FXRDR	pivCLASS Reader Services
SWG-1550-1	FIPS 201 Credential Management Integration, includes DataConduIT license
Enrollment Client	
PVCP-D/S-1400	pivCLASS Validation Workstation
PCP-API-RTL	FIPS 201 Enrollment client, using the pivCLASS SDK built into OnGuard system
R31210349-1	OMNIKEY® Full-Size Contact Smart Card Reader
SMA-MSO1300-V3	Morpho® Smart Mini Optic Fingerprint Sensor
Hardware	
LNL-X4420	Intelligent Dual Reader Controller
LNL-1320-S3	Series 3 Reader Interface Module (Dual Reader)
LNL-1300-S3	Series 3 Reader Interface Module (Single Reader)
LNL-1324e	IP-based Reader Interface Module
High Assurance Reader Licenses	
EA-LICENSE2	HID Reader Embedded Authentication License (supports 2 readers)
SWG-AUTH-002	OnGuard Reader Embedded Authentication License (supports 2 readers)

Readers

- Supports HID pivCLASS half-duplex OSDP™ readers
- Supports Veridt Stealth OSDP readers

Option 2: Authentication using HID PAM and any LenelS2 Intelligent System Controller

APL # 10112

The LenelS2 PAM-based solution utilizes OnGuard system version 7.3 and greater with the HID pivCLASS® validation solution for enrollment, managed certificates and validating credentials at the door. This solution relies on use of the pivCLASS Authentication Module (PAM) to perform the PKI validation at time of access through the reader. Through the use of the PAM device, this solution can be added to existing OnGuard system installations frequently without the need to replace any controller hardware.

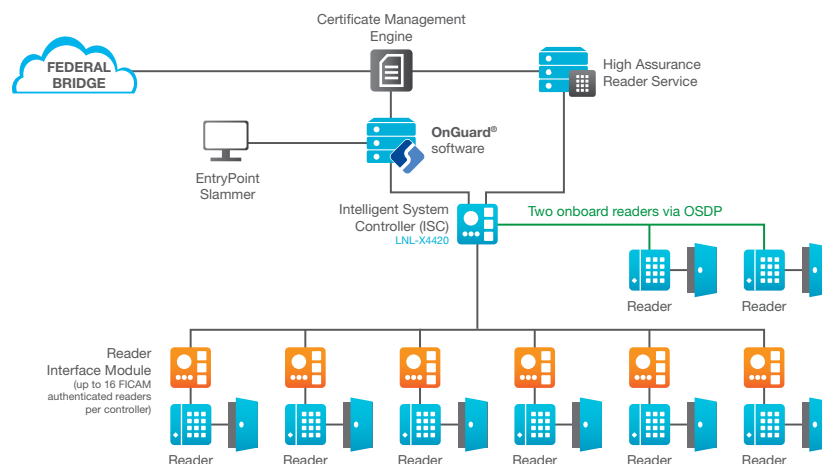| Part #	Description
Base Software	
OnGuard v.7.3 and up	Supports OnGuard ES, ADV, PRO, ENT configurations
PVC-CM	pivCLASS Certificate Manager
PVC-FXRDR	pivCLASS Reader Services
SWG-1550-1	FIPS 201 Credential Management Integration, includes DataConduIT license
Enrollment Client	
PVCP-D/S-1400	pivCLASS Validation Workstation
R31210349-1	HID OMNIKEY 3121 Enrollment Reader
SMA-MSO1300-V3	Morpho Fingerprint Reader for Enrollment
Hardware	
LNL-X3300	Intelligent System Controller
LNL-X2220	Intelligent Dual Reader
LNL-X2210	Intelligent Single Door Controller
LNL-1320-S3	Dual Reader Interface Module
LNL-1300-S3	Single Reader Interface Module
LNL-1324e	IP-based Reader Interface Module
PAM	
91000ABNNN	pivCLASS Authentication Module (PAM)

Readers

- Supports HID pivCLASS full-duplex OSDP readers

Option 3: EntryPoint™ onboard authentication using LenelS2 X-Series controller (LNL-X4420)

APL # 10126

The LenelS2 APL-listed option with EntryPoint authentication from Technology Industries provides a rich set of alternatives for FICAM compliance. Using the LenelS2 X-Series intelligent system controller (LNL-X4420) and your choice of authenticating readers (either Veridt® Stealth® series or Allegion® Schlage® Multi-Technology Readers), provides another FICAM authentication solution paired with the OnGuard system to perform the Public Key Infrastructure (PKI) validation at time of access through the reader.

With the EntryPoint authentication engine running on the LenelS2 controller, this solution supports sixteen FICAM readers that can be connected (two readers onboard the controller, and additional readers connected through supported reader interface modules). The OnGuard system can support registration of the cardholder using the EntryPoint Slammer application offering a simplified enrollment interface for FICAM credentials.

Readers

- Supports Allegion Schlage Multi-Technology PIV readers
- Supports Veridt Stealth series PIV readers

Part #	Description
Base Software	
OnGuard v7.6 and up	Supports OnGuard ES, ADV, PRO, ENT configurations
SWG-1550-1	FIPS 201 Credential Management Integration, includes DataConduIT license
EP-EWS	Base FICAM Enrollment Package, includes: - (1) Registration Workstation License - (1) PACS Connector - (1) Certificate Management Engine - (1) Database Connector - First Year Maintenance and Support
Enrollment Client	
R31210349-1	Omnikey Full-Size Contact Smart Card Reader
SMA-MSO1300-V3	Morpho Smart Mini Optic Fingerprint Sensor
EP-ADD-BWS	Additional Enrollment Workstation

Part #	Description
Hardware	
LNL-X4420	Intelligent Dual-Reader Controller
LNL-1320-S3	Dual-Reader Interface Module
LNL-1300-S3	Single-Reader Interface module
LNL-1324e	IP-based Dual-Door Interface
Panel/Reader Licenses	
EP-PNL-RDR	Base EntryPoint Panel/Server License, includes: - (2) High Assurance Reader Licenses - (1) Panel Manager License - (1) Certificate Management Engine - (1) Database Connector - First Year Maintenance and Support
EP-ADD-RDR-2	Additional Reader License (bundle of 2)
SWG-AUTH-002	OnGuard Reader Embedded Authentication License (supports 2 readers)

Always working to meet your needs.

Whether you have an existing LenelS2 OnGuard system or are looking to replace your current physical access control system, LenelS2 has a FICAM solution that will fit your requirements. LenelS2 offers solutions that help you comply with HSPD-12, FIPS 201, ICD705, UL1076, and FIPS 140-3. Our Federal Government Solutions team is here to assist you with any design support you may need.

LenelS2 is the global leader in advanced physical security solutions, including access control, video surveillance and mobile credentialing. Our technology includes web-based and mobile applications enhanced by cloud-based services. Incorporating open architecture, LenelS2 provides scalable, unified security management solutions to customers ranging from global enterprises to small- and mid-size businesses. Easy to install and use, LenelS2 products are supported by an experienced, responsive team dedicated to providing exceptional service. LenelS2 serves segments worldwide including corporate, education, healthcare and government. LenelS2 is a part of Carrier Global Corporation, the leading global provider of healthy, safe and sustainable building and cold chain solutions.

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