



HELUG 2023 OnGuard 8.2 Key Features Overview

July 2023 – Product Release

LenelS2 Product Management – Brian Tripp

OnGuard Evolution – How we talk to customers...



Core Software/Hardware

Browser Clients/Modules

Released January 2021

OnGuard® 8.0

Allegion RU/RM
(Crash Bar – Remote Undog/Monitor)

End User - SUSP Notification
Cybersecurity and Hardening Updates
HTTPS for License Admin
Milestone – Video Tile 1.3 Support

Released June 2022

OnGuard® 8.1

Aperio® AH40 IP Hub – 64 Locks
Promotion of X-Series Controllers
Controller IP Client Support

Credential Factory Support 
Cybersecurity and Hardening Updates
API Auditing Improvements

 **milestone** Deeper Integration for
Unified Experience

 Silent Installs / Rehydration

Released June 2023

OnGuard® 8.2

Badge Override – Locked
Honeywell PW7K

OpenAccess API Performance
Credentials – EV2 Diversified Keys
Acknowledgement UDF Support
Mobile Credentials NFC

 Cloud Compatibility Chart

OnGuard
8.2 went to
Partner
Center the
week of
June 12th.
Press
Release on
Tuesday
June 20th.

2021

2022

2023

2024



'NEW' Reports
v1.0



Monitor Maps
& Milestone



Surveillance 1.3
Milestone



Magic Monitor for
OnGuard



Credentials UI Refresh



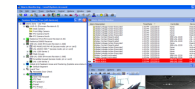
Reports for ENT



Visitor Updates



Magic Monitor for ENT



Windows Client UI Refresh



'New' OG Reports &
Dashboards Client



Magic Monitor
Updates



Windows Client
Dialog Refresh



A CARRIER COMPANY

Roadmap – 2017 thru 2020

Software and Hardware

Released December 2017

OnGuard[®] 7.4

LNL-4420 Enhancements
Series 3 Downstream
LNL-8000-M5
Expanded Locks Support

BIO "Launch Button"
New iCLASS™ Encoder



IaaS Cloud Deployment
MS Azure

Released December 2018

OnGuard[®] 7.5

Lenel X-Series Controllers
SimonsVoss Wireless Locks

3rd Party Authentication (OIDC)
Password complexity & expiration
CDO DESFire Encoding EV1/EV2 cards
Browser client badge printing
OSDP Biometric update



PaaS
Services Consumption

Released December 2019

OnGuard[®] 7.6
(with 7.5 Update 1)

LNL-1324e (Network Reader Interface)
ANSSI (Controller-based keys)
DMP/Bosch Integration

Visitor Barcode (PDF417) + Wallet
Cybersecurity Updates



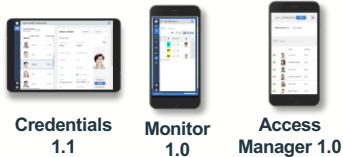
Amazon Cloud
AWS Cloud Support

2017

2018

2019

Next-Gen OnGuard



Credentials 1.1 Monitor 1.0 Access Manager 1.0



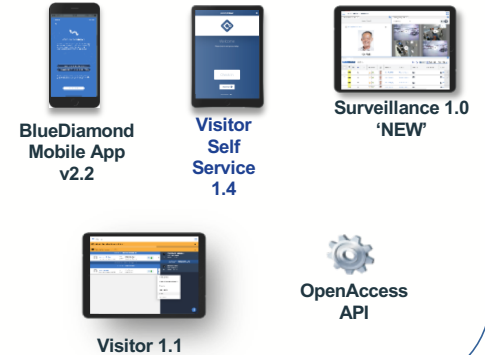
Cardholder Self Service 2.0
OpenAccess API



BlueDiamond Mobile App v2.1
Visitor Self Service 1.3

Console 1.1
Monitor 1.1
Visitor 1.0

Users 1.0
Credentials 2.0
OpenAccess API



BlueDiamond Mobile App v2.2

Visitor Self Service 1.4

Surveillance 1.0 'NEW'

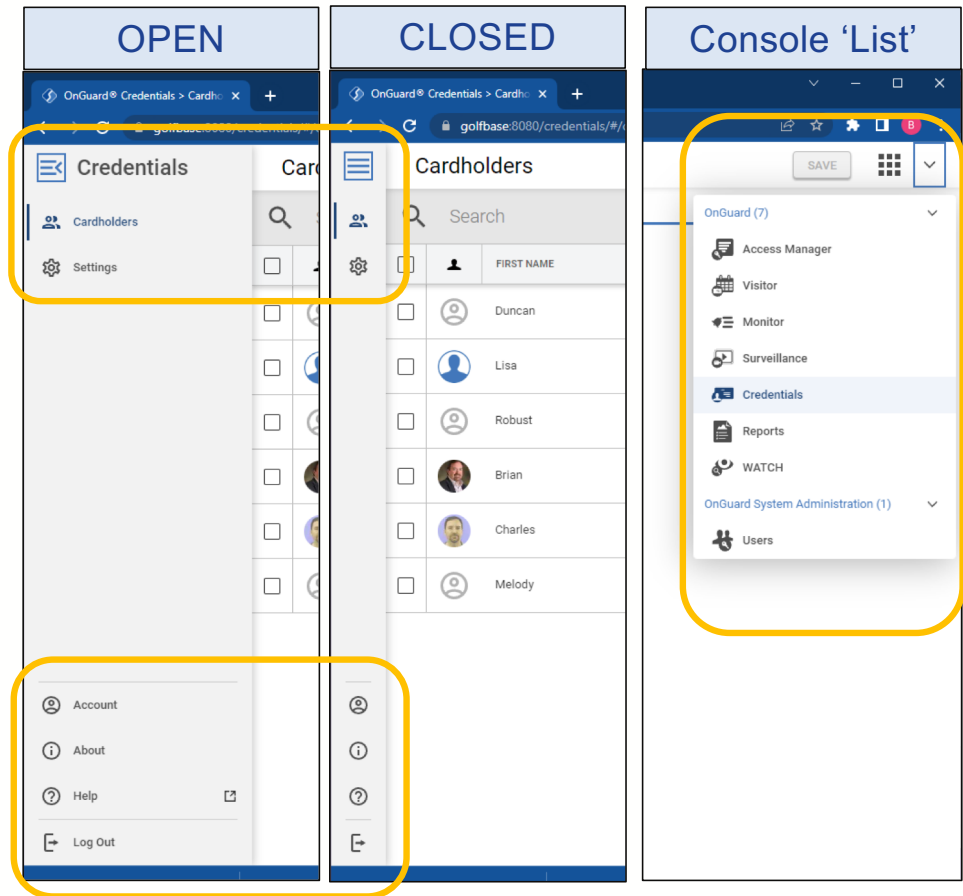
Visitor 1.1

OpenAccess API

Browser 'Client Navigation' Changes

- Left Navigation
 - Open/Close reduces to an icon display
- Console 'List' Navigation
 - Responds to what you have on 'My Console'
- Account Pages
 - Account of the user (change password)
 - About
 - Help (automatically opens in a new tab)
 - Log Out 😊

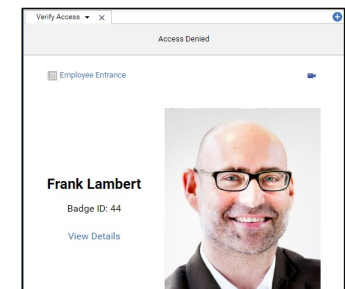
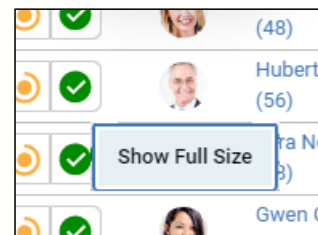
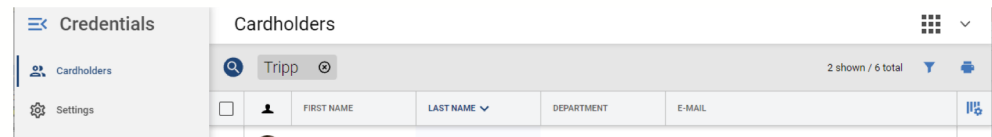
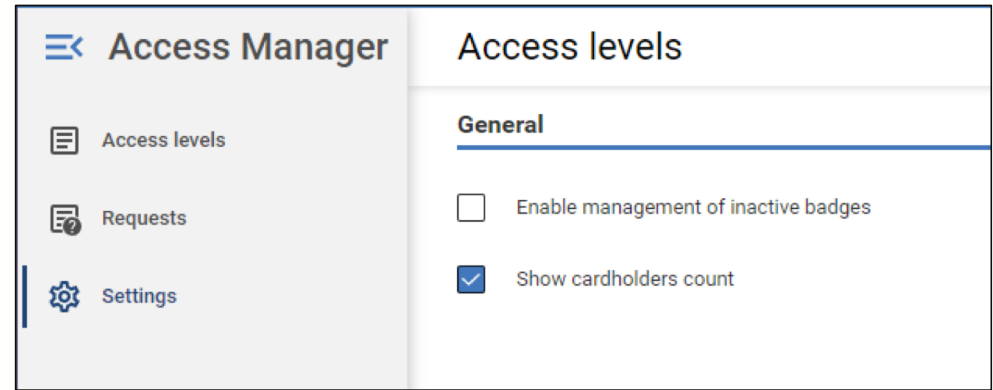
- Supports accessibility and better user experience
- Visual changes and component refactoring
- No changes in the functionality expected



Continuing growth in browser clients...

Growing the support of OnGuard browser clients, brings their value to more customers and use cases...

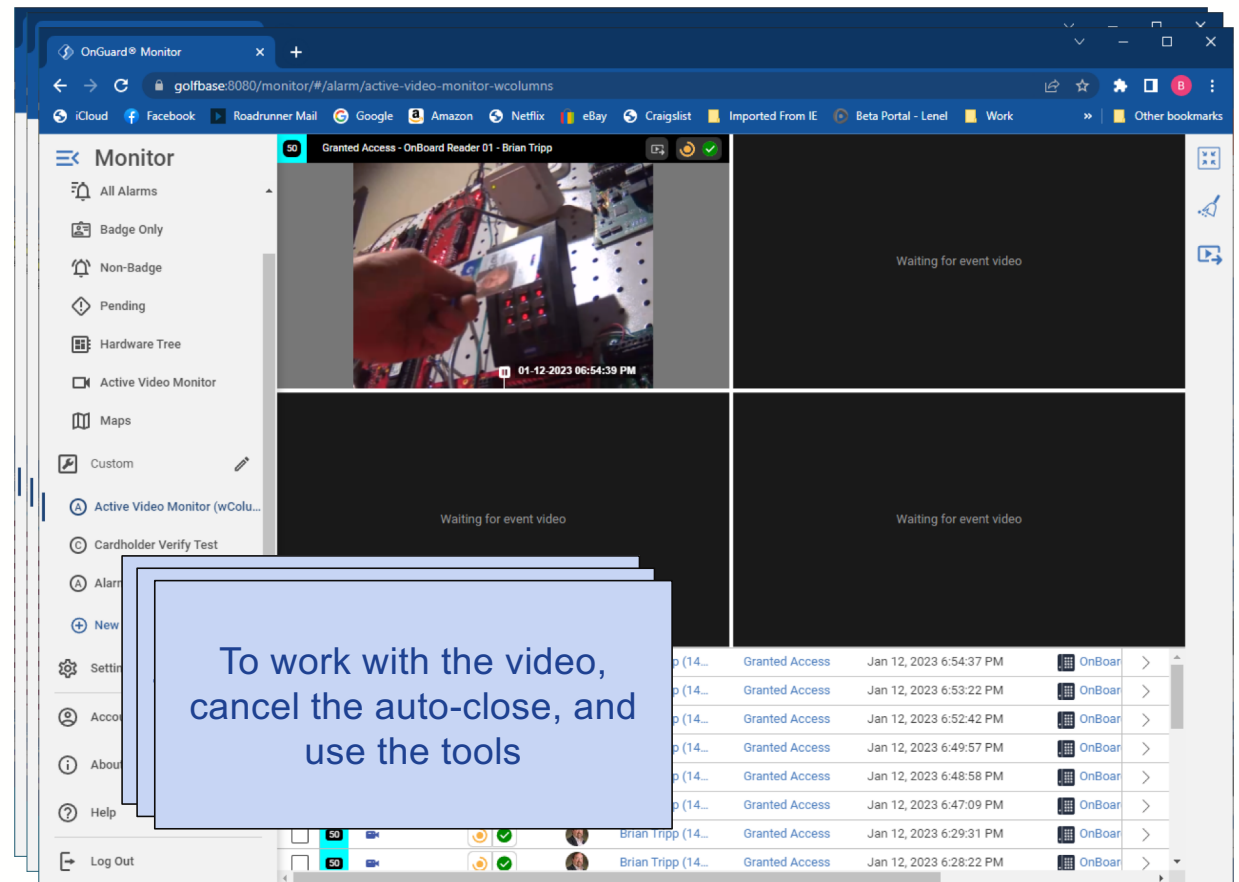
- Access Manager client now supports visibility and assignment to 'Inactive' badges
- Credentials
 - Displays total searched cardholder counts
 - Supports improved WCAG accessibility
- Monitor client
 - Adds the ability to customize the Cardholder Verify display, for better visibility and screen/layout format
 - Click on Photo Thumbnail to see a larger photo of the cardholder involved in the event



Cardholder Verify example

OG Monitor: Added Support in Active Video Monitor

- Monitor: Pre-Roll support in Active Video Monitor
 - Configure Pre/Post roll for the camera
 - Configure Launch Live Video on an Alarm
- Monitor: Close video on timeout in Active Video Monitor
 - You can see the timeout countdown and cancel if needed



Alarm-Video Configuration Support

Video Recorder Camera Camera Inputs Camera Outputs Remote Monitor Device - Camera Links Alarm-Video Configuration Video Event Text Auxiliary Services Archive Server Security Video Processing PTZ Tour Server

Alarm Lock

- Gate Valve Sensor Restore
- Generic Event
- Get Lock Mode Failed
- Get Lock Mode Success
- Global Linkage Action Executed
- Global Linkage Action Failed
- Grant Last User (Override)
- Granted Access
- Granted Access, Common Pin
- Granted APB Violation, Entry Made
- Granted APB Violation, No Entry Made
- Granted Double Card
- Granted Facility Code
- Granted Facility Code, No Entry
- Granted No Entry
- Granted Under Duress
- Granted Under Duress, No Entry
- Granted-Dual Custody
- Granted-Escort
- Granted-Escort Pending
- Granted-Exit-Dual Custody
- Granted-Exit-Escort
- Granted-Exit-Master
- Granted-Master
- Granted-Pending Entry
- Ground Fault
- Ground Fault Restore
- Grounded Loop Active
- Grounded Loop Restored
- Group Bypassed
- Group Bypassed Restore
- Guard Tour Action Executed

Video Commands to Execute on Alarm

Video Event Locking

- No Locking
- Begin Locking Video
- End Locking Video

Use Event Recording Configuration

- No Configuration Change
- Begin Event Recording
- End Event Recording

Default Video Event Timeout: 00:00:30

Monitoring

- Automatically Launch Video on Alarm
- Live Only
- Recorded Only
- Recorded and Live

Recorded Playback Options

- Play from Pre-Roll
- Pause at Alarm Time
- Play Pre-Roll first
- Play Pre-Roll on first Play Click
- Pause at Pre-Roll Start Time
- Display IV Overlay in OnGuard

Start in Matrix Mode for Multiple Video Streams in OnGuard

Close Unattended Video After Timeout (Seconds): 30

Close video on Alarm Acknowledgment

Acknowledge Alarm when Player in OnGuard is Closed: No

OK Cancel Clear Apply Help... Modify Mode

Digital Video Users Alarm Configuration Ready

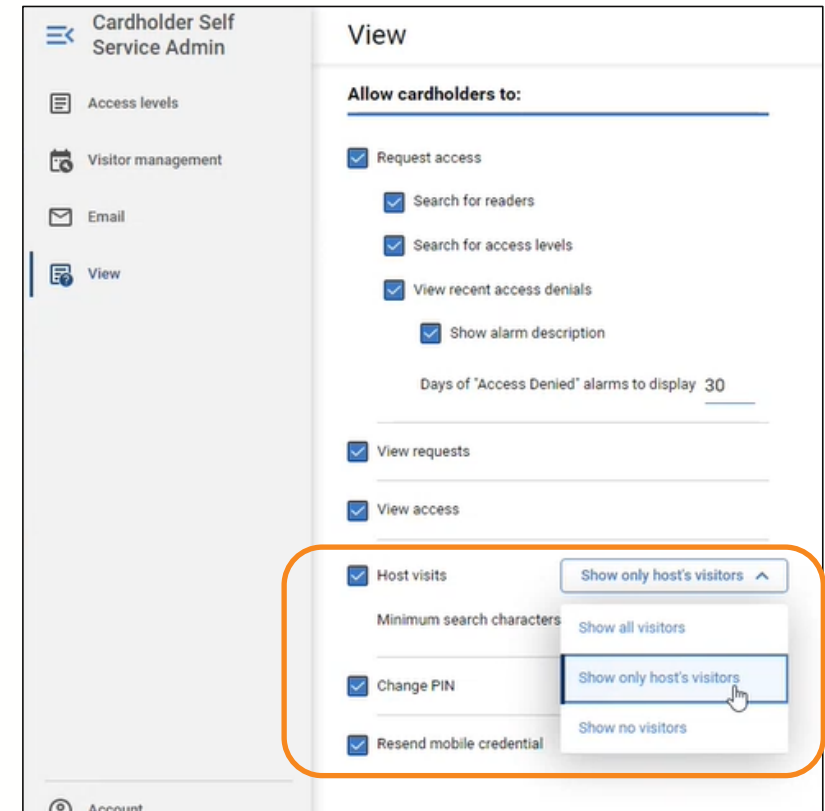
Active Video Monitor supports 4 of the options available from Alarm-Video Configuration / Monitoring

Cardholder Self Service – Visitor Host ‘Privacy’ Update

Provides a flexible tool for visitor check in, managing visitor badges and access levels, engaging groups, capturing visitor photos, and printing badges

- In support of global privacy concerns, CSS Visitor Host changes how Visitors are searched
- New ‘Host Visits search options are available
 - Show all visitors
 - Show only host’s visitors (default)
 - Show no visitors
 - Minimum search characters
 - Number of characters to type PRIOR to submitting search request

NOTE: Using the more restrictive options creates the opportunity for more duplication in Visitor records in OnGuard.



Overview of OnGuard 8.2 Reporting & Dashboards

New Reports Client and updated LS Reporting Server support added customization and cybersecurity

- Replaced Logi Reports client with LenelS2 native client
 - Usability/Consistency
 - Accessibility
 - Localization (Partial)
- New "ToolBox" in Reports Studio (requires Advanced Reporting license)
 - Add text boxes and images to reports
 - Add interactive Filter and Parameter controls directly to the report
 - Add navigation controls

The screenshot displays the OnGuard Reporting interface. At the top right, it shows the print date as 06-Dec-2022 at 05:47 AM and the timezone as (GMT+12:00) International Date Line V. The main title of the report is "Access Denied, Granted and Other Badge Events". Below the title, the start date is 06-Nov-2022 12:00 AM and the end date is 06-Dec-2022 11:59 PM. A search box for "Device" is visible, with a dropdown menu showing "BlueDiamond Reader", "Employee Entrance", "LNL-1320-S3 - Reader 1", "LNL-1320-S3 - Reader 2", "Texas -SwitchTech", and "TX FSE Elements /BlueDiamond". A "Generate export view" checkbox is present. The main data table has columns for Date/Time, Event UTC Time, Device, Event, Details, and Cardholder. The data shows a series of "Access Granted" events for "BlueDiamond Reader" on 06-Dec-2022, with details like "56 (0)" and cardholders like "Dubois, F".

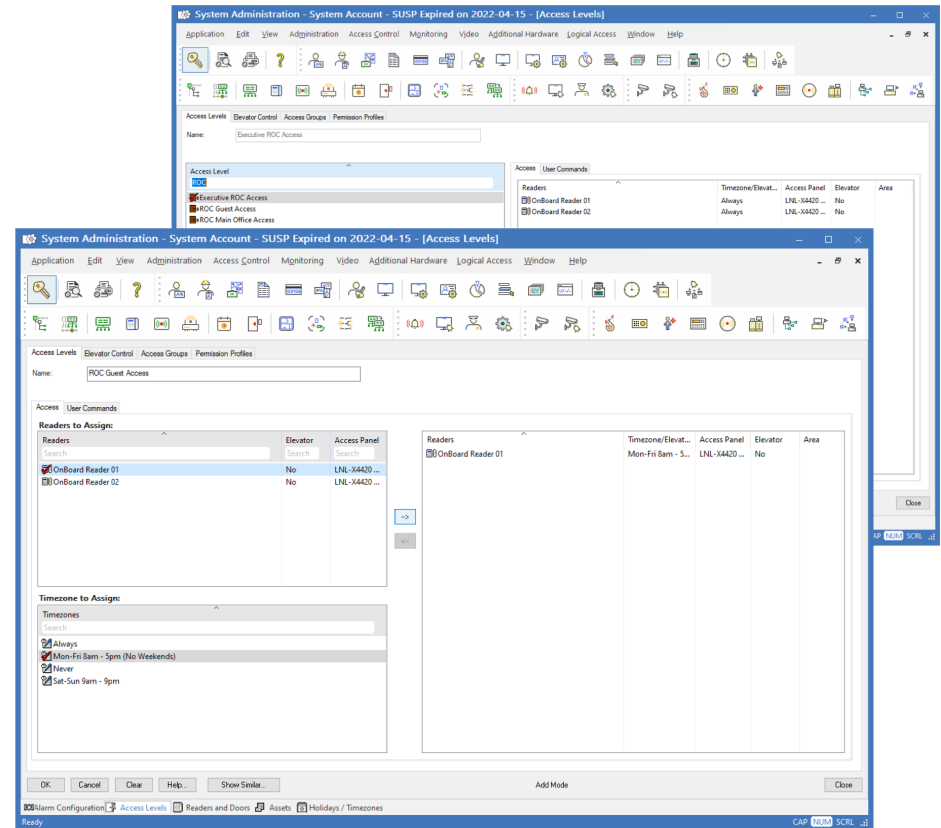
Date/Time	Event UTC Time	Device	Event	Details	Cardholder
06-Dec-2022					
01:43 AM	06-Dec-2022-01:43 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:42 AM	06-Dec-2022-01:42 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:41 AM	06-Dec-2022-01:41 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:41 AM	06-Dec-2022-01:41 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:40 AM	06-Dec-2022-01:40 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:39 AM	06-Dec-2022-01:39 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:39 AM	06-Dec-2022-01:39 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:38 AM	06-Dec-2022-01:38 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:38 AM	06-Dec-2022-01:38 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F
01:37 AM	06-Dec-2022-01:37 PM	BlueDiamond Reader	Access Granted	56 (0)	Dubois, F

Reports edit screens with new tools

Windows Client Refresh

Bringing color back to Tool Icons, improving the usability of key dialogs for and filtering

- Bringing 'accent color' back to tool bar icons helps users who use color for tool identification
- Updated key dialogs to take better advantage of screen 'space'
 - Access Levels, Timezones/Holidays, Alarm Definition, and Local IO
- Additions of filtered lists, allows users to easily focus on items in large systems



OnGuard 8.2 Access Levels Modify Dialog

OnGuard 8.1 Access Levels

The screenshot displays the 'System Administration - AI256186_New\System Account - [Access Levels]' window. The interface includes a menu bar (Application, Edit, View, Administration, Access_Control, Monitoring, Video, Additional Hardware, Logical Access, Window, Help) and a toolbar with various icons. The 'Access Levels' tab is active, showing a list of access levels on the left and a configuration table on the right.

Access Level List:

- Cafeteria Access
- Data Center- HQ (All)
- Data Center- University (All)
- Data Centers- All
- **Emergency Level 1**
- Emergency- Total Access
- Eng Labs- Computer Engineering
- Eng Labs- Mechanical
- Executive Offices
- First Responder
- Government Research Labs
- Government Research Offices
- Master
- Master All Access
- Office Building Perimeter doors
- Perimeter Access
- Pittsford HQ - Perimeter Access

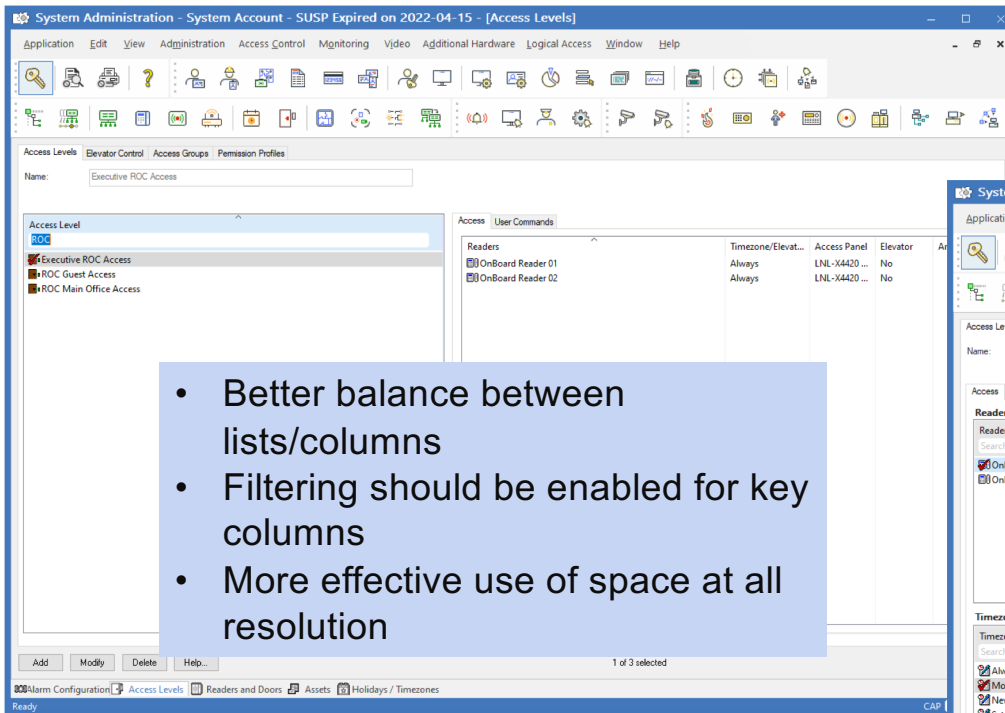
Configuration Table:

Readers	Timezone/Eleva...	Access Panel	Elev...	Area
^				

Buttons: Add, Modify, Delete, Help... | 1 of 17 selected | Close

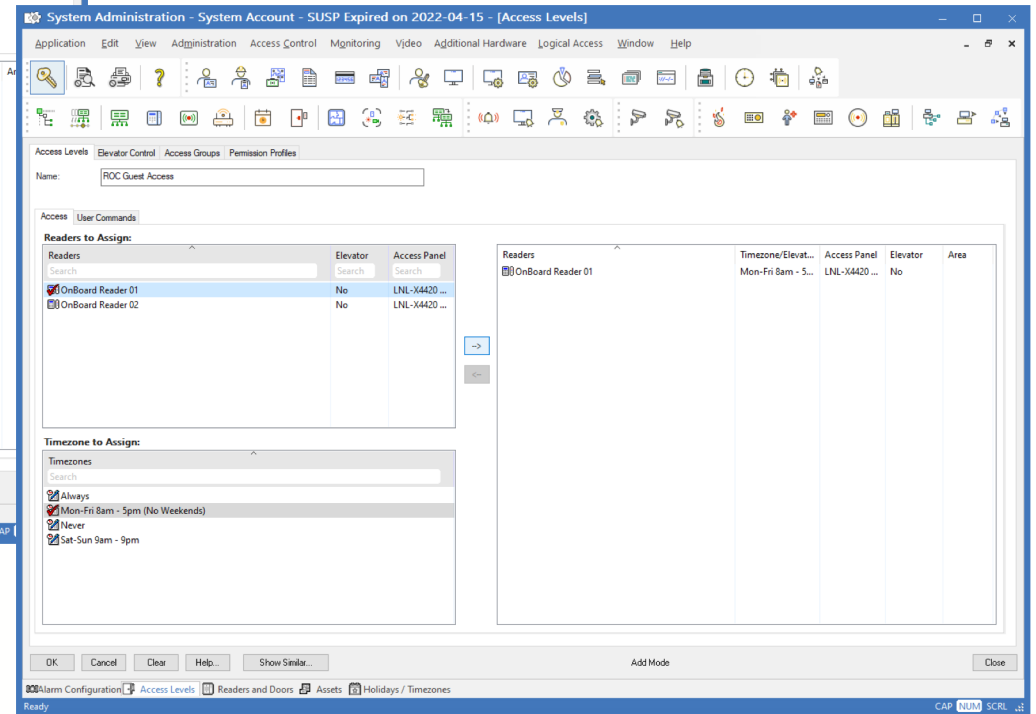
Taskbar: Access Panels, Alarm Configuration, Access Levels | Ready | CAP NUM SCRL

OnGuard 8.2 Access Levels



- Better balance between lists/columns
- Filtering should be enabled for key columns
- More effective use of space at all resolution

Note: In almost all cases, the function of the dialog was kept the same to avoid 're-learning'.



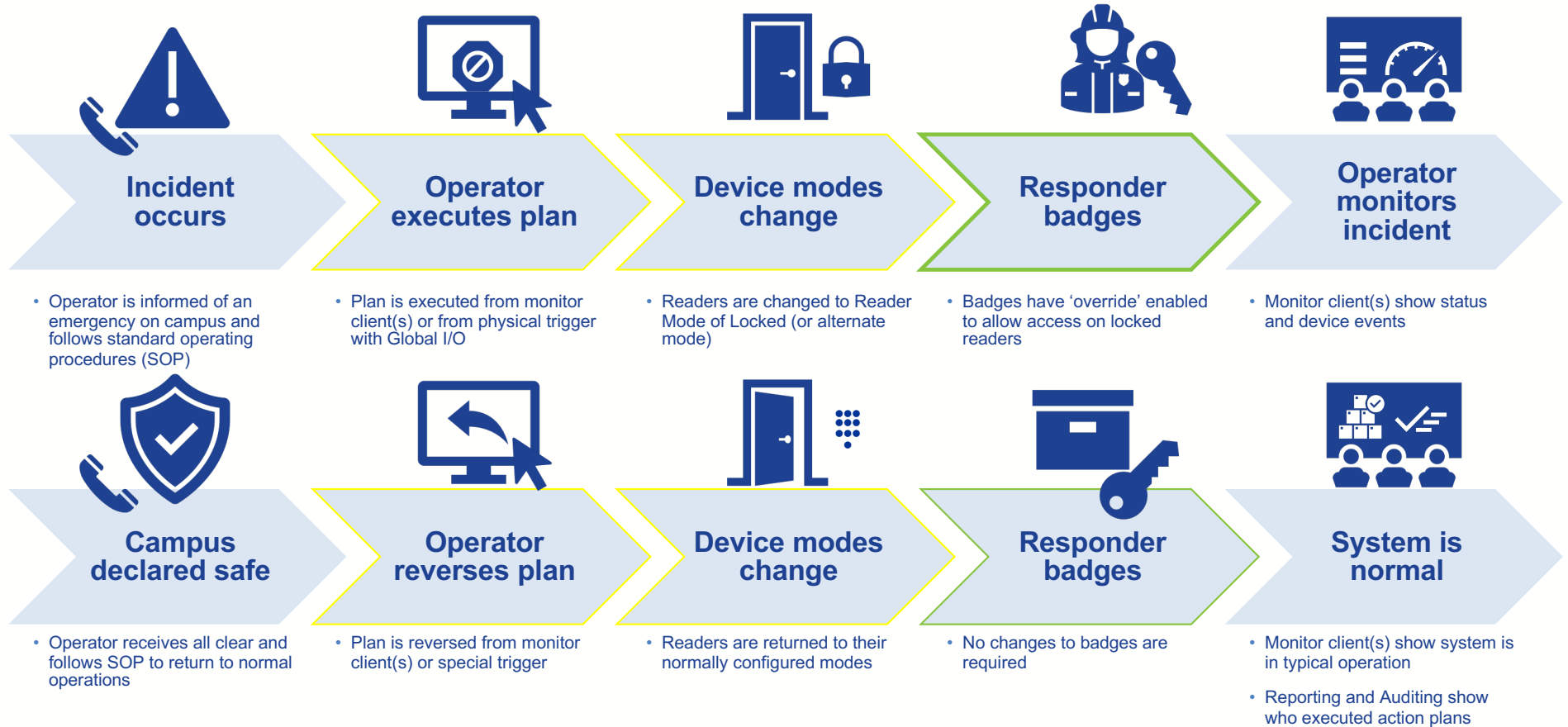
Badge Override of Locked Reader Mode

- Why?
 - At certain times, the system admin must change reader mode to locked
 - Some badges need to be able to continue to gain access through locked readers
 - Badge Override of Locked Reader Mode allows this functionality
- Works with online readers controlled by Mercury Hardware
- Requirements
 - Badge must have Lock Override Attribute enabled
 - Badge must have Active Access Level for Locked Reader
- Benefit
 - Emergency response improved



Incident Response and Resolution (Restore)

* Reminder from earlier discussions



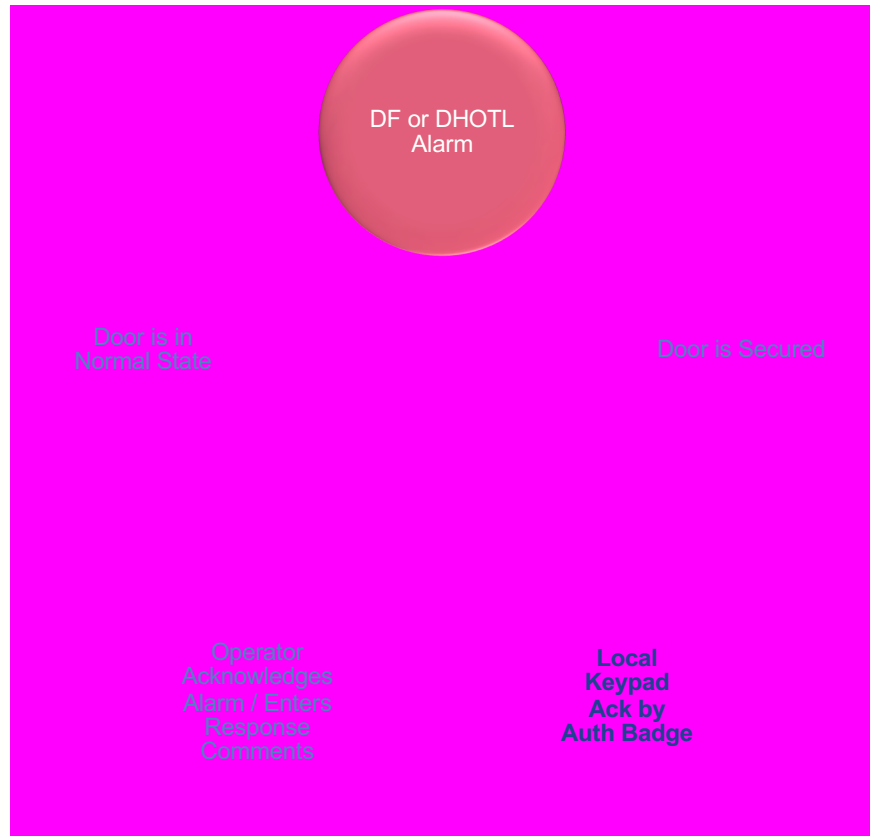
What is Action Plans (Lockdown) going to be...

- Main Operational component will be Device Groups for Readers
 - Provides a logical grouping of associated readers
 - Many customers already have groups of readers created in support of current efforts
- Reader Groups will have options to configure Lockdown
- Alarm Monitoring Device Groups will allow Activate/Restore of the Lockdown
 - Groups will also show Status of the Lockdown
- Specific Permissions will be created for Operators to Activate / Restore
 - Similar to Operator permissions for other 'pairs' to allow better control pf who can trigger these actions
 - Like; Mask / UnMask or Arm / Disarm

Keypad Alarm Response Required - Option

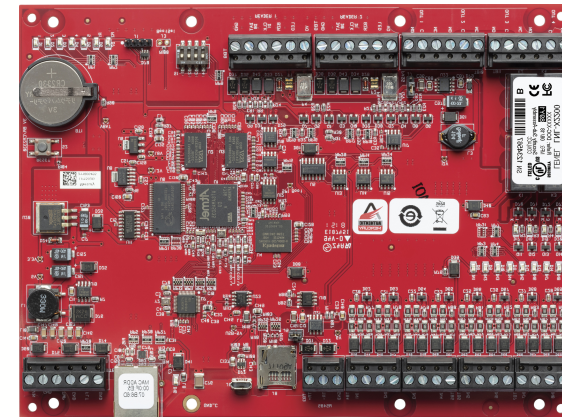
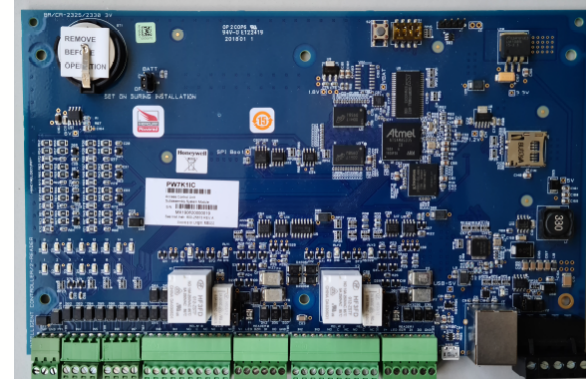
- Different Alarm Acknowledgement workflow available for doors that have keypad readers for
 - Door Forced Alarms
 - Door Held Open Too Long Alarms
- Acknowledge flow
 - Door Forced Alarm or Door Held Open Too Long Alarm occurs
 - Door is physically re-secured
 - **Locally acknowledged (thru reader Keypad code) with authorized badge**
 - Then Operator can acknowledge alarm in Alarm Monitoring Client (Thick or Thin)

Audit trail of who locally acknowledged that the alarmed door was re-secured



Support for Honeywell PW7000 Controllers and SIOs

- PW7K Controller = LNL-X2220 Controller
- PW7K SIOs = Series 3 SIOs
- Requirements:
 - Software Option License SWG-1640 is required for communications, it enables bi-lingual DLL
 - Proper OEM Mask, to allow Honeywell OEM Coded boards to communicate with OnGuard
- Benefits
 - Allows Honeywell hardware users to migrate to the OnGuard platform, preserving their investment in Honeywell hardware



Longer Descriptions for Aux Inputs and Aux Outputs

- Descriptions for Auxiliary Inputs and Outputs have been extended from 32 characters to 64 characters
- This change applies to Auxiliary Inputs and Outputs on Controllers and Reader Interface Boards
- Description definition in System Admin UI
- Displaying the longer descriptions in all Alarm Monitoring Clients & Reports



Extended descriptions can provide more context for operators and system admins. Leads to increased responsiveness in operation, and understanding in historical reporting

User-Defined Fields for Alarm Response (ACK)

Allows Admins to define specific and predictable fields within their Alarm Response (Acknowledgement) process

- Customers wanted to include their own data fields in the Response/ACK process
 - Simple - what 'team' was dispatched in response to an Alarm
 - Specific – numeric or 'coded' fields to support their reporting or response metrics
- ACK UDF fields are displayed in Alarm Monitoring or OnGuard Monitor, on the same screens where you see ACK Notes
 - Use the 'Advanced Acknowledgement Report' to add your UDF's to the report (Advanced Reporting License required)
- Fields can be updated during In Progress or Acknowledgement
 - Required UDF Fields only affect the Acknowledgement

Reminder: UDF's are added to OnGuard using FormsDesigner and a FULL FormsDesigner License is required to do so.

The screenshot displays the 'Respond to Alarm' interface. At the top, there is a red header bar with the title 'Respond to Alarm' and a close button (X). Below the header, the 'Alarm Details (1)' section is expanded, showing the alarm type 'Door Forced Open', the time '11:10:33 PM 1/19/2023', and the priority '200'. It also lists the 'Device' as 'Reader OnBoard 1' and the 'Controller' as 'LNL-X4420'. The 'Notes' section is also expanded, showing a 'Notes' field with the text 'Add Required Notes' and a plus icon. Below the notes, there is a 'Response Team' dropdown menu with a red asterisk indicating a required field. The dropdown menu is open, showing three options: 'Security', 'Facilities', and 'Management'. The 'Security' option is currently selected. At the bottom of the interface, there are two buttons: 'IN-PROGRESS' and 'ACKNOWLEDGE'.

Using ACK UDF Fields in Alarm Monitoring

Alarm Monitoring - Brian Tripp - SUSP Expired on 2022-04-15

File Edit View Trace Configure Control Options Window Help

System Status Tree (all devices)

Alarm Acknowledgment

Alarm information

Description: Door Forced Open Time/date: 3:35 PM 1/5/2023

Controller: LNL-X4420 Main Controller Device: OnBoard Reader 01

Input/output: None Card:

Acknowledgment

Activity history:

Instructions

Instruction Template

Notes:

Added Notes

In Progress Update Acknowledge Close Help

Additional data

Response Team: Security

ACK UDF Text: Good Text

Card

3:35 PM	1/5/2023	LNL-X4420 Main...	OnBoard Reader 01	None
3:35 PM	1/5/2023	LNL-X4420 Main...	OnBoard Reader 01	None
3:34 PM	1/5/2023	LNL-X4420 Main...	OnBoard Reader 01	None
8:54 AM	1/5/2023	LNL-X4420 Main...	None	None
8:54 AM	1/5/2023	LNL-X4420 Main...	None	None
7:54 AM	1/5/2023	LNL-X4420 Main...	None	None
7:54 AM	1/5/2023	LNL-X4420 Main...	None	None
8:23 PM	1/4/2023	LNL-X4420 Main...	None	None
8:23 PM	1/4/2023	LNL-X4420 Main...	None	None
7:00 PM	1/4/2023	LNL-X4420 Main...	None	None

Viewing: all Active count: 3 Offline

Main Alarm Monitor

Alarm Description

- Door Forced Open
- Request to Exit - Door Used
- Door Forced Open
- Door Held Open Restored
- Open Door Command Issued - Door Used
- Communications Restored
- Communications With Host Restored
- Communications Restored
- Communications With Host Restored
- Communications Restored
- Communications With Host Restored
- Communications Restored
- Communications With Host Restored
- Communications Restored

System Status Tree (all devices) Main Alarm Monitor

Ready Connection errors: 0 Offline controllers: 0 Offline readers: 0 Offline alarm panels: 0 3:35 PM

- UDF Fields will display the latest value
 - Values can be updated/changed during In Progress, Update, or Acknowledgement
- Required UDF Fields only affect the Acknowledgement
 - You do not need to mark them during In Progress

ACK UDF (Area / Page)

License Administration Updates

- License Administration now includes the ability to load BOTH the OnGuard Main and Subscription license files at the same time.
 - The screen where you browse to the license file now includes fields for selection of both
 - You do not have to load both, you can still do one or the other as well

The screenshot shows the 'License Administration' window with a sidebar on the left containing links like 'Installed Licenses', 'Install New License', 'View Log', 'Administration Properties', and 'Log Out'. The main area is titled 'Choose License File(s)' and contains the following elements:

- Choose License File(s)**: Please choose the license file or files that you want to install and then select *Next* to continue.
- Main License File:** Choose File No file chosen
- Subscription License File:** Choose File No file chosen
- Next** and **Cancel** buttons.

A yellow rounded rectangle highlights the 'Main License File' and 'Subscription License File' sections. A blue callout box on the right points to the 'Subscription License File' section with the text: "This is one for the VAR's!".

Updates to User Transaction Auditing & Reporting

‘Core’ OnGuard pre/post auditing for the API is extended to include Badge Details

- Building on the 8.1 API Transaction effort
- Support for Badge Details added to ‘human readable’ metadata
- Audited fields ¹ :
 - Cardholder Details
 - Badge Details
 - Access Level assignment
 - Access Level modifications
 - User Access Level assignments (for AAM)

¹: While these user transaction updates were focused on transactions thru the API, these specific areas were updated thru the installed clients as well.

Object Affected	Details	Metadata
Application	Brian Tripp (SSO) (4) - System Administration	
Application	Brian Tripp (SSO) (4) - System Administration	
Cardholder	Cardholder ID: 13, Dubois, Herbert, Albert	Modify : dept : 0 > 10004 Modify : addr1 : 1212 Pittsford Victor Road > 1212 Pittsford Victor Street Modify : location : 0 > 10008 Modify : division : 0 > 10007 Add : email : Herbert.Dubois@LenelS2.com Modify : title : 0 > 101000
Badge	Badge: 2468, 0 / Cardholder: 13, Dubois, Herbert, Albert)	
Cardholder Access Levels	Badge: 2468, 0 / Cardholder: 13, Dubois, Herbert, Albert)	Add : Access Level : Perimeter Access Only (Segment: Default Segment) Delete : Access Level : Master (Segment: Default Segment)

Modifying Cardholder

Add/Delete Access Level

Expanded User Transactions Report – Cardholder Example

Add User Preference {"columns":{"displayName":true,"type":false,"description":true,"lastmodified":false,"actions":true,"actionsMenu":true}} Client Name REPORTS Setting Type myreports.column-manager		Standard
Badge: 135246, 0, Old ID 135246, 0 (Cardholder 7, Tripp, Brian)	Modify : DEADBOLT_OVERRIDE : -1 > 0 Modify : BADGE_OVERRIDE : 0 > -1 Modify : DEACTIVATE : 2028-03-09T00:00 > 2027-07-09T00:00 Add : PIN : Updated Binary Data	Standard
Ca		Standard
Ca		Standard

Modifying an existing Badge

Expanded User Transactions Report – Badge Example

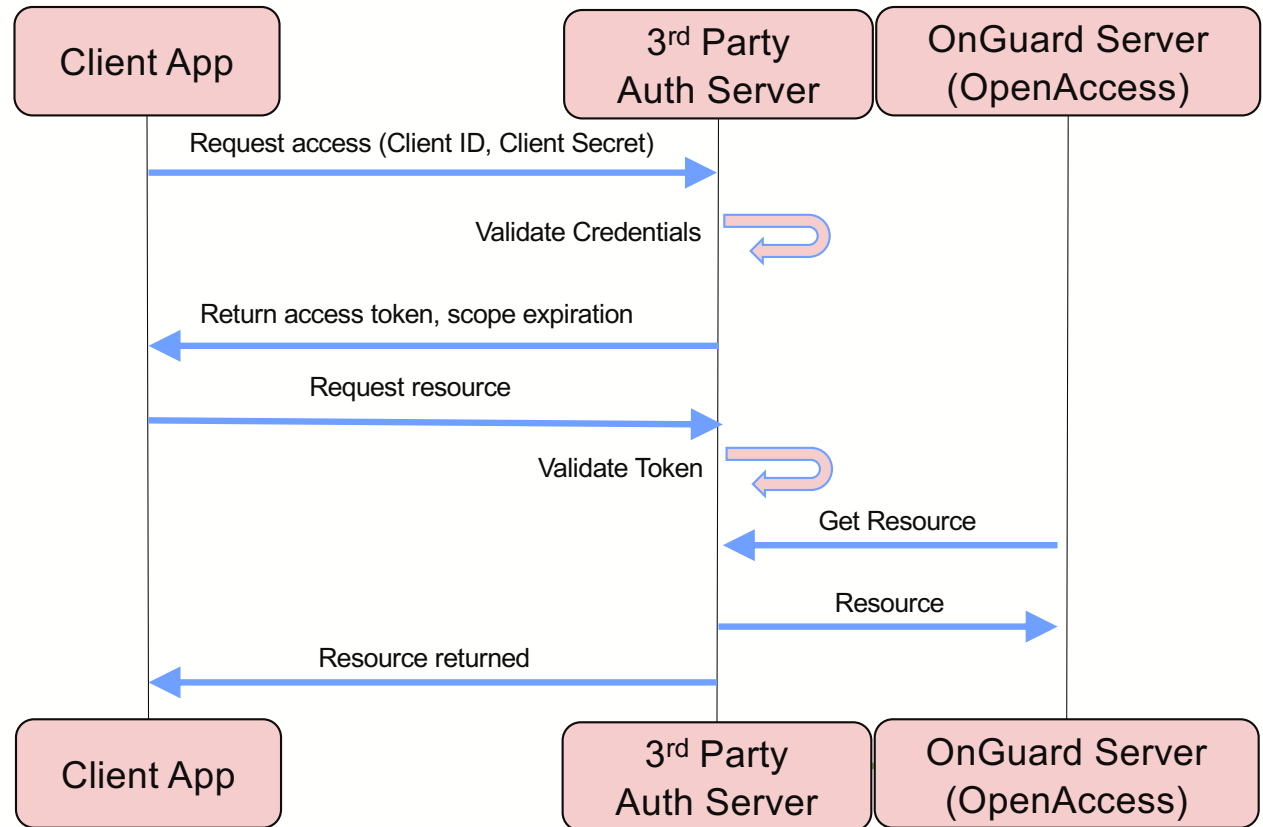
3rd Party Authentication – Client Credentials Flow

- What did we do?
 - Addressed the question: How does a ‘service’ log into OnGuard using 3rd Party Authentication?
 - Added an OAuth option for this called ‘Client Credentials Flow’ to 3rd Party Authentication
- Why did we do this?
 - Customers and Partners have the need for their integrations to be able to authenticate, and customers are pushing to have this authentication be done thru a 3rd Party Provider
 - The current 3rd Party Auth in OnGuard is very ‘user centric’ in that the browser goes out to the provider and the user enters their User/Pass there.
 - And a service cannot take that path

Support/Limitations – This option requires more support from the 3rd Party Provider, and as with our OIDC support, not all providers will support the Client Credentials Flow. Validation for this support focused on Okta and Azure AD.

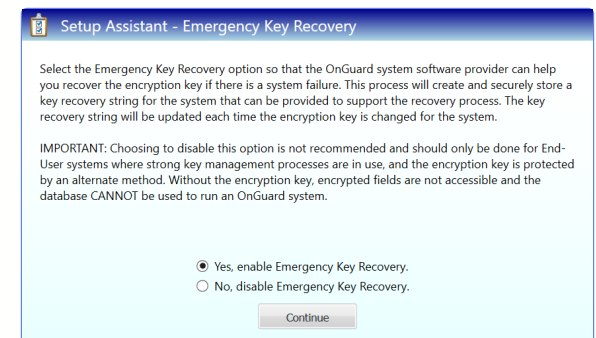
Client Credentials Flow

- This diagram is the basic flow of the process
- Credentials from the Partner App are validated by the 3rd Party
 - The login with them first
- When the token is sent to OnGuard for the request
 - We can validate the token using the 'Introspect Endpoint'
 - We can validate the token locally (harder to setup)
- After validation, the Client ID is used to connect the request to an OnGuard User Account



Cybersecurity Updates and Process

- Hardening Guide Updates for OnGuard 8.2
 - Now includes Revision History for the list of changes
 - Updates for TLS 1.3, Identified Ports, and more...
- OnGuard 8.2 has recent versions of NGINX, RabbitMQ/Erlang, Java OpenJDK
- Emergency Key Recovery option for 8.2 (& 8.1 Update 1)
 - Extends the Key Management/Encryption done in 8.1
 - Enabling this option allows LenelS2 (as the manufacturer) to assist with key recovery when NO OTHER OPTIONS are available
- TLS 1.3 support starts in OnGuard 8.2 for specific areas
 - Browser-based client delivery (supported by the NGINX web service)
 - LS Message Broker service (using RabbitMQ).
 - Some areas of OnGuard remain supported at TLS 1.2
 - Access Controllers support TLS 1.2 or 1.1 based on model



TLS 1.3 changes provide better performance and stronger security, thru changes like a faster TLS handshake and more secure cipher suites.

Cloud Platform Compatibility

- As we go thru the Beta, we will be looking to preview/review the upcoming Compatibility Chart for Cloud Platforms
- Listed compatibility for...
 - Azure
 - Azure SQL
 - AWS
 - Amazon RDS
 - Relational Database Service

Key notes and expectations how OnGuard would be used in cloud environments

*Additional guidance would be included in the OnGuard Deployment Guide

OnGuard® Cloud Compatibility
Created by Cindy Belavia, last modified by Brian Tripp on Feb 28, 2023

OnGuard® is capable of being installed within cloud environments as an Infrastructure as a Service installation. When in this has been tested and found compatible with Amazon Web Services (AWS) Infrastructure as a Service (IaaS) and Azure environments.

Cloud Platform	OnGuard 8.2.xxx	OnGuard 8.1.639	OnGuard 8.0.458
AWS			
IaaS Installation	Supported	Supported	Supported
AMI Deployment (ES/ADV/PRO) ¹	Supported <small>(AMIs will be Publicly Available)</small>	Supported <small>(AMIs Publicly Available)</small>	Supported <small>(AMIs Available Upon Request)</small>
Cloud Region Disaster Recovery	Not Supported*	Not Supported*	Not Supported*
Relational Database Service (RDS) for SQL Server	Supported	Supported	Not Supported
Load Balancing (active/active)	Not Supported*	Not Supported*	Not Supported*
Azure³			
IaaS Installation	Supported	Supported	Supported
Azure SQL ²	Supported <small>(12.0.2000.8)</small>	Supported	Supported
Cloud Region Disaster Recovery	Not Supported*	Not Supported*	Not Supported*
Load Balancing (active/active)	Not Supported*	Not Supported*	Not Supported*

Key:
 * LenelS2 does not currently test or certify region to region disaster recovery or load balancing (active/active) solutions provided by cloud providers.

Notes

- LenelS2 has a high level of confidence that OnGuard will perform in most cloud environments. However, LenelS2 does not test or certify OnGuard for any cloud environment other than what is listed.
- Support for OnGuard in a cloud environment is based on OnGuard Application Servers and Database are in the same cloud solution/environment and geographical region (to maintain expected connectivity).
- Technical Support and Engineering are unable to troubleshoot any cloud environment-specific problem for cloud environments not listed.
- Technical Support and Engineering will assist with any OnGuard-specific issue as long as it is determined that the problem is not specific to a non-tested/non-certified cloud environment.

Documentation Topic

- OnGuard 'Combined Compatibility Guide' concept is being evaluated
 - VARs have requested that this become one guide
- From our POV this is a great suggestion/option to help Customers and VARs easily find what they need
- Benefits
 - Easier to download one document
 - Table of Contents as a guide
 - Standard organization of topics in the file...
 - OnGuard System, Hardware, Video, etc.
 - Search all the charts in one 'Ctrl-f' for what you need

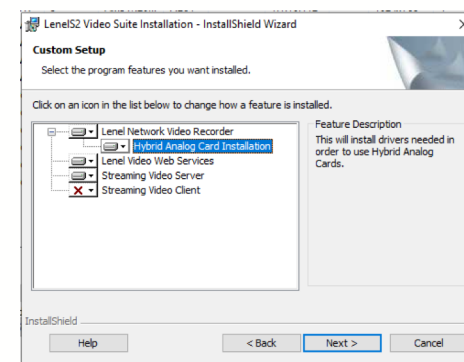
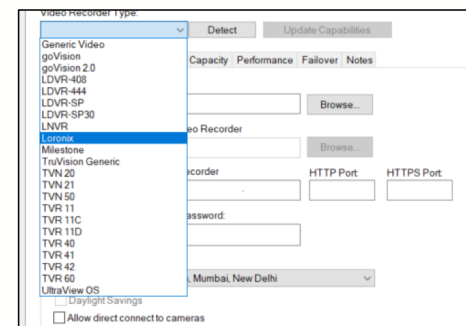


OnGuard®

OnGuard Compatibility Guide

EOL Video components

- Removing the following outdated and obsolete recorders
 - LDVR
 - Loronix
 - HNVR (Hybrid LNVR units aka "HVR")
- Removal of the standalone SKU for the card and LNVR that used them
 - Relevant PNs for these products are prefixed with:
 - “A16” 16-channel encoder
 - “A32” 32-channel encoder
- Removal of WVV and Intelligent Video
 - Web Video Viewer (the 2011 ISS Based Version)
 - Intelligent Video Server / Intelligent Video Application Server



OnGuard 8.1 Update 1

- Finished our Health Check (gate) Review 4/18
- Currently in process to Partner Center
 - Release Memo up 4/24
 - Software Expected on our about 4/26
- Release Notes, Resolved Issues can be provided
 - SQL Azure Archiving (to DB)
 - Updated Crystal Reports
 - Emergency Key Recovery (Encrypted Fields)
 - OpenAccess from 8.2
 - Lnl_Cardholder paging
 - New Lnl_Badge.ModifyAccessLevelAssignment
 - 3rd Party Auth for SVCS (OAuth2 Client Credentials)
 - Custom Reports Service location
 - New NGINX, RabbitMQ, and Erlang

The image shows three overlapping screenshots of the OnGuard 8.1 Update 1 documentation. The top document is the 'Release Notes Introduction', the middle one is 'Resolved Issues Introduction', and the bottom one is 'Limitations'. Each document features the LENE:L S2 logo and contact information for the Product Manager.

Questions and Answers



?? Q&A ??





My Questions to you as OnGuard Users...

- 1. What problems are you trying to solve?**
- 2. What are your thoughts on our Release Timing?**
 - Major Releases?
 - Update 1 – at 6 months
 - Update 2 - at 9 months (15 total)
 - Update 3 – at 9 months (24 total)
 - End of Support – at 3 Years from Release
- 3. When do you remove a Cardholder?**
 - What qualities of that Cardholder indicate you can take them out of OnGuard?





Thank you for your attention!
(And for having me back again 😊)

Credentials Refresh

Our 'oldest' browser client refreshed with our 'latest' user experience, includes enhanced support and usability/accessibility updates for a better user experience

- New Search Methods
- Improved support of cardholder segmentation (Primary / Additional)
- Action to bulk change segments
- Updated editing commands in Photo Capture
- Local Printer Management
- Improvements to accessibility (AD 508), clarity, and usability

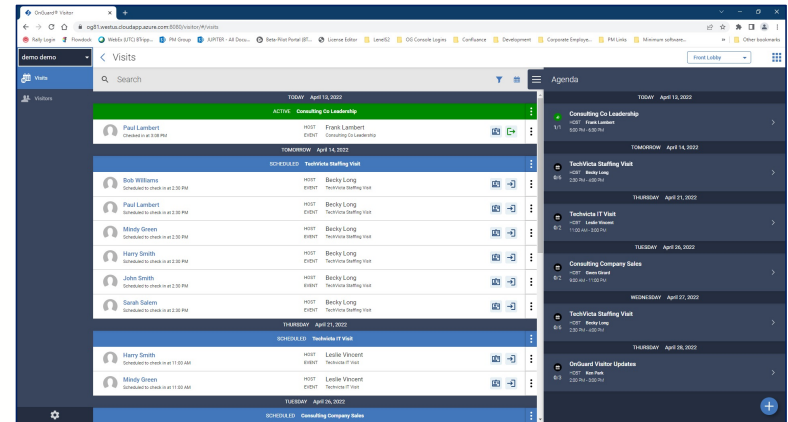
The screenshot displays three panels from a web application. The left panel, titled 'Profile', shows a user's information: First Name (Brian), Last Name (Tripp), and Social Security #. Below this is a 'Details' section with links for Segments, Cardholder, Field Page Test, CAC Personnel, and Directory. The middle panel, titled 'Badges', lists three badges: 1028 (Contractor Sample Badge), 17 (HID Mobile Access Badge), and 461 (Employee Sample Badge). The right panel, titled 'Badge', shows details for badge 1028, including its status (Active), type (Contractor Sample Badge), ID (1028), activation date (07/22/2020), and deactivation date (08/17/2022). A green button indicates a duration of 2 years. Below the badge details are links for 'Details' and 'Access Levels'.

Detail screens allow the operator to 'go as deep as needed' to understand and adjust the cardholders record in the system

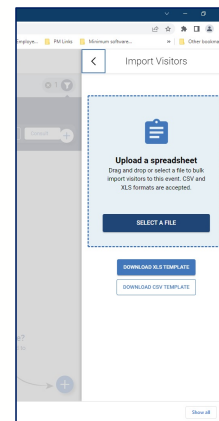
Visitor

Provides a flexible tool for checking in visitors, managing visitor badges and access levels, engaging groups, capturing visitor photos, and printing badges

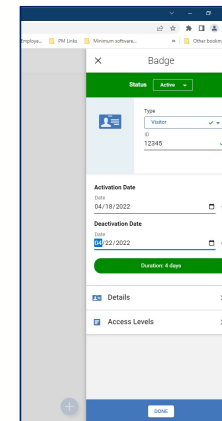
- Manage of Visitor Badges and Access Levels
- Bulk Visitor enrollment
- Export Visitor Accepted / Viewed documents
- Alignment of Visit Status between Visitor and 'Thick' Visitor Management
- Printer assignments management
- Usability / consistency enhancements
- Control of visitor system settings



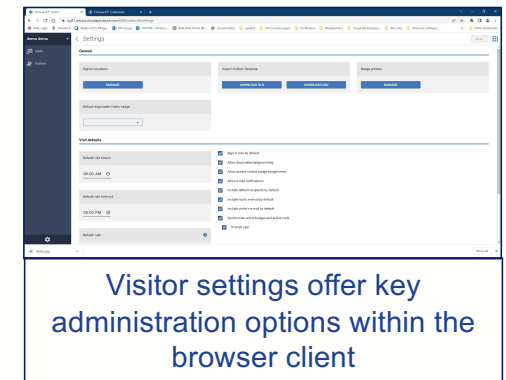
Visit Status and Agenda by Sign-In Location help plan the front desk attendants day...



Bulk Import Process



Badge Detail Screen

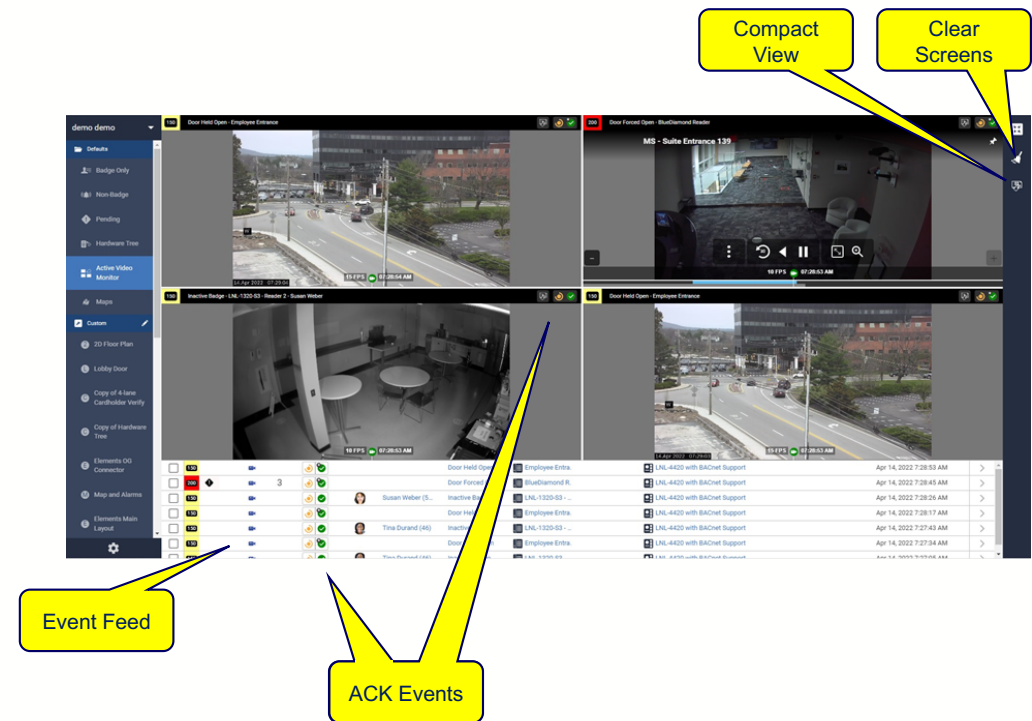


Visitor settings offer key administration options within the browser client

Monitor: Active Video Monitor (Video Hot Tile)

Interactive display and management of incoming video linked to priority alarms for improved visualization & responsiveness

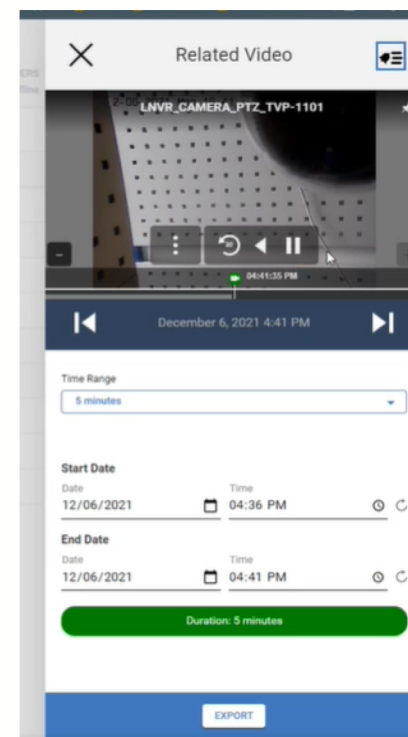
- Active Video Monitor allows quick access to view video of active alarms and events.
- Dedicated page for viewing event video only
 - Event video is pushed to the viewer first in first out.
 - Acknowledge in the video tile of event feed
 - Pre-configured widget or build custom layouts



Monitor: Video Export

Quickly and easily
share video clips with others
inside or outside of the security environment

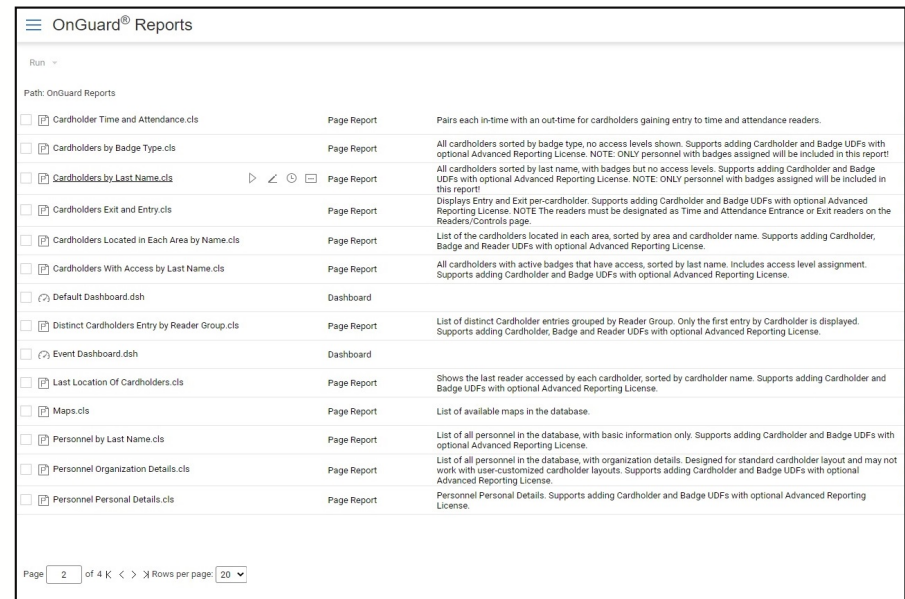
- Video is exported to browser in MP4 format
- Download up to 4 clips simultaneously
- Clip duration can be custom set or use value from the pulldown menu
- Maximum clip duration is 1 hour
- Export from several different screens, Hardware tree, Widget, Active Video Monitor



Reporting and Dashboards Enhancements

More Enterprise users can now move from Crystal Reports and take advantage of browser-based reporting

- Support available for Enterprise systems
 - Can be used at the Region or Global ('Master') Servers
- Extended and Enhanced Reports and Dashboards
 - 20+ new reports (based on Crystal equivalents)
 - Several totally new reports
 - Most existing 8.0 reports have been updated
 - New and updated dashboards



OnGuard® Reports			
Run -			
Path: OnGuard Reports			
<input type="checkbox"/>	Cardholder Time and Attendance.cls	Page Report	Pairs each in-time with an out-time for cardholders gaining entry to time and attendance readers.
<input type="checkbox"/>	Cardholders by Badge Type.cls	Page Report	All cardholders sorted by badge type, no access levels shown. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License. NOTE: ONLY personnel with badges assigned will be included in this report
<input type="checkbox"/>	Cardholders by Last Name.cls	Page Report	All cardholders sorted by last name, with badges but no access levels. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License. NOTE: ONLY personnel with badges assigned will be included in this report
<input type="checkbox"/>	Cardholders Exit and Entry.cls	Page Report	Displays Entry and Exit per-cardholder. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License. NOTE: The readers must be designated as Time and Attendance Entrance or Exit readers on the Readers/Controls page.
<input type="checkbox"/>	Cardholders Located in Each Area by Name.cls	Page Report	List of the cardholders located in each area, sorted by area and cardholder name. Supports adding Cardholder, Badge and Reader UDFs with optional Advanced Reporting License.
<input type="checkbox"/>	Cardholders With Access by Last Name.cls	Page Report	All cardholders with active badges that have access, sorted by last name. Includes access level assignment. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
<input type="checkbox"/>	Default Dashboard.dsh	Dashboard	
<input type="checkbox"/>	Distinct Cardholders Entry by Reader Group.cls	Page Report	List of distinct Cardholder entries grouped by Reader Group. Only the first entry by Cardholder is displayed. Supports adding Cardholder, Badge and Reader UDFs with optional Advanced Reporting License.
<input type="checkbox"/>	Event Dashboard.dsh	Dashboard	
<input type="checkbox"/>	Last Location Of Cardholders.cls	Page Report	Shows the last reader accessed by each cardholder, sorted by cardholder name. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
<input type="checkbox"/>	Maps.cls	Page Report	List of available maps in the database.
<input type="checkbox"/>	Personnel by Last Name.cls	Page Report	List of all personnel in the database, with basic information only. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
<input type="checkbox"/>	Personnel Organization Details.cls	Page Report	List of all personnel in the database, with organization details. Designed for standard cardholder layout and may not work with user-customized cardholder layouts. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
<input type="checkbox"/>	Personnel Personal Details.cls	Page Report	Personnel Personal Details. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.

Page 2 of 4 K < > Rows per page 20

Reports list and added descriptions make it much easier to select the reports suited to the operator's needs.

- New "Export View" for many reports to deliver 1 record/row and 1 row/record in Excel or CSV
- No report replication – custom reports can be manually copied

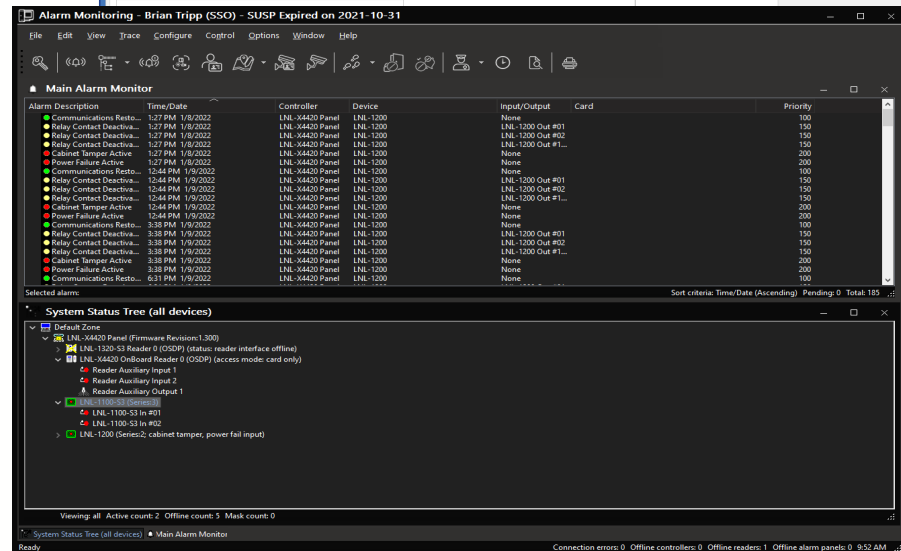
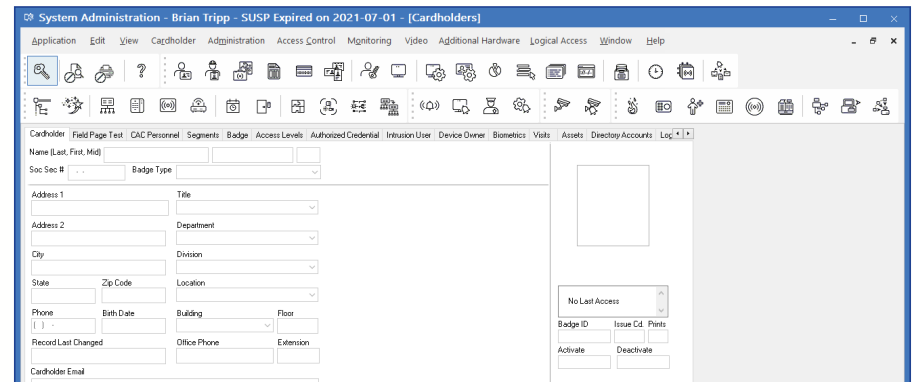
Examples of ‘new’ reports in OnGuard

Name	Type	Description
Active Badges Without Access Level Assignments	Page Report	Listing of each Access Level by Segment, with each cardholder that has that access level assigned to them. Also summarizes the total number of badges that need to be downloaded to each segment. This report only works on a system using Segmentation. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
Advanced Badges Report	Page Report	Primarily designed for systems with the Advanced Reporting license. List of Badges for Cardholders and/or Visitors with Badge Type, Status and Activate and Deactivate Dates. Landscape layout with an empty space to allow adding more columns. Supports adding Cardholder, Visitor and Badge UDFs with optional Advanced Reporting License.
Advanced Visitor Report	Page Report	Primarily designed for systems with the Advanced Reporting license. List of Visitors sorted alphabetically with last visit information. Supports adding Visitor UDFs with optional Advanced Reporting License.
Advanced Visits Report	Page Report	Primarily designed for systems with the Advanced Reporting license. List of visits by date, newest first, with visit details. Supports adding Visit, Visitor, Host (Cardholder) and Badge UDFs with optional Advanced Reporting License.
Badge Expiration Report	Page Report	List of Badges expiring in less than specified number of days before and after today's date. Can be used to determine which Badges may need to be updated or purged based on recent or upcoming expiration. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
Badges Not Used In X Days Or More	Page Report	List of Badges not used in more than specified number of days before today's date. Can be used to determine which Badges may need to be updated or purged based on lack of use. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
Cardholder Record Activity Report	Page Report	List of Cardholder records inactive for more than specified number of days. Can be used to determine which Cardholder records may need to be purged based on days of inactivity. Supports adding Cardholder and Badge UDFs with optional Advanced Reporting License.
Distinct Cardholders Entry by Reader Group	Page Report	List of distinct Cardholder entries grouped by Reader Group. Only the first entry by Cardholder is displayed. Supports adding Cardholder, Badge and Reader UDFs with optional Advanced Reporting License. Supports adding Cardholder, Badge and Readers UDFs with optional Advanced Reporting License.
User Transaction Log (Expanded) by User ID	Page Report	Chronological log of all transactions performed, grouped by User ID, includes additional details, transaction grouping, and metadata.
User Transaction Log (Expanded)	Page Report	Chronological log of all transactions performed on the system by users, includes additional details, transaction grouping, and metadata.
Visitor Record Activity Report	Page Report	List of Visitor records inactive for more than specified number of days. Can be used to determine which Visitor records may need to be purged based on days of inactivity. Supports adding Visitor UDFs with optional Advanced Reporting License.
Cardholder Dashboard	Dashboard	Displays cardholder record and badge record activity, low usage access levels, and badges expiring soon.

Windows Client Refresh

Modernized user interfaces reduce eye strain and enhance energy efficiency

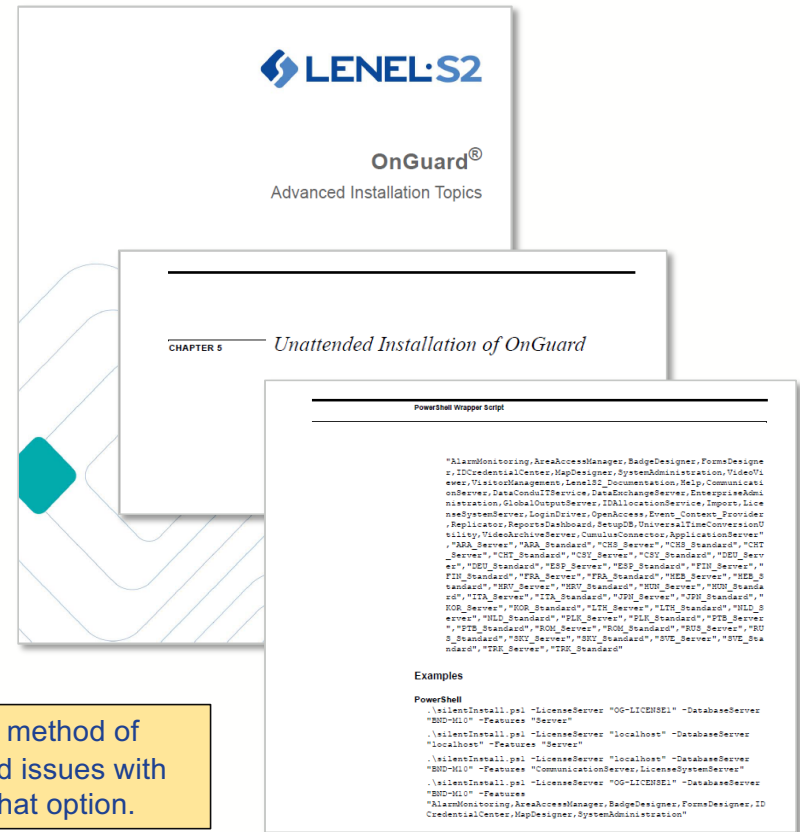
- Familiar functionality with updated look-and-feel require no operator re-training
- Refreshed User Experience for Alarm Monitoring and System Administration
- Common changes to Colors, Shapes, Icons, Borders and Toolbars
 - No changes to 'Device/Status' Icons
- Addition of 'Dark Mode' to Alarm Monitoring



Silent / Scripted Server or Client Installation

Allows OnGuard to be installed using more IT-centric methodologies

- Allows the OnGuard Server to be installed without user interaction
 - Adds to Silent Client installation enabled in 8.0
- Key to automating cloud-based installations
- Includes sample Powershell scripts
- Replaces the 'Client Update' process that used to be in the Advanced Installation Guide



Deployment Note: As part of 8.1 installation effort, the 'Client Update Service' method of installation was removed. While this worked for some few customers, continued issues with the certificate security model and permissions concerns made us discontinue that option.

Emergency Key Recovery (Installation)

- Following on from the Encryption Key Management in 8.1, customers can now choose to have their encryption key recoverable by LenelS2.
- You will see this option in the following places:
 - During Encryption Key Generation
 - Database Setup > Re-encrypt my database
 - Setup Assistant for new installations and upgrades jumping over 8.1
 - Setup Assistant upgrades from 8.1 to anything going forward
 - Login Driver application > Edit > Manage Encryption Key

