



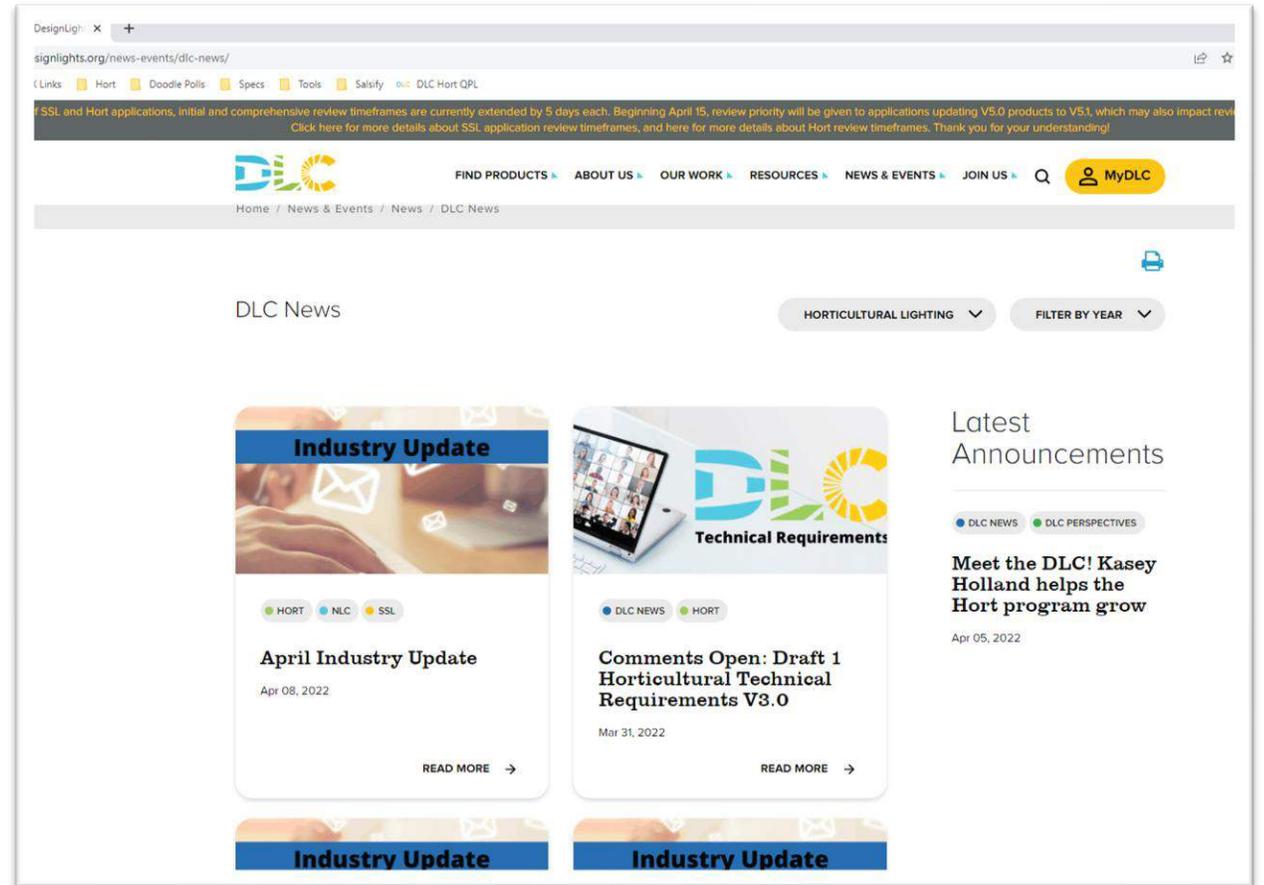
Interoperability, Integration, & Cybersecurity: Exploring the DLC NLC List

September 18, 2025

designlights.org

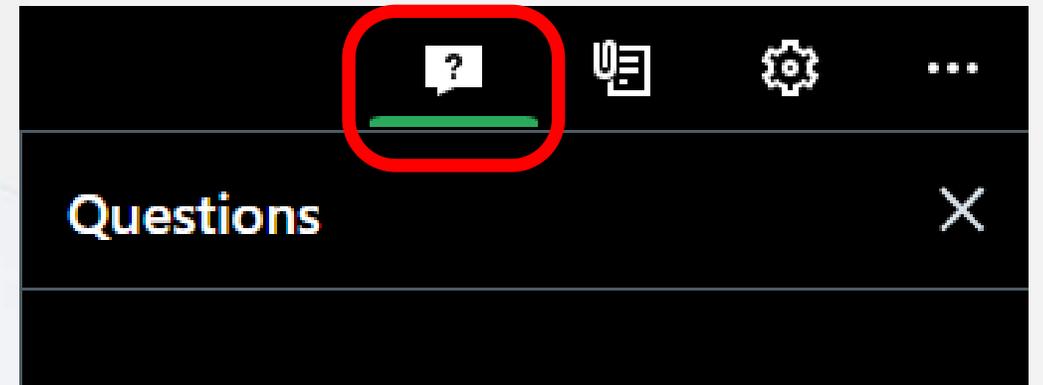
Welcome!

- Slides and recorded webinar will be posted on the *DLC News & Events* page at <https://designlights.org> shortly after today's presentation
- All attendees are automatically muted



Webinar Orientation

- Questions will be held until the end during a live Q&A
 - Use the Question pane for Q&A



Speakers



Levin Nock
DLC



Matt Turk
Newcomb & Boyd



Poll: Who's Here Today?

1. Energy Efficiency Program/Implementer
2. ESCO/Distributor
3. Manufacturer
4. Lighting Designer/Specifier/Sales Rep
5. Facility Manager/Owner/Electrician
6. Nonprofit/Govt/
7. Educ/Research
8. Test Lab
9. Other

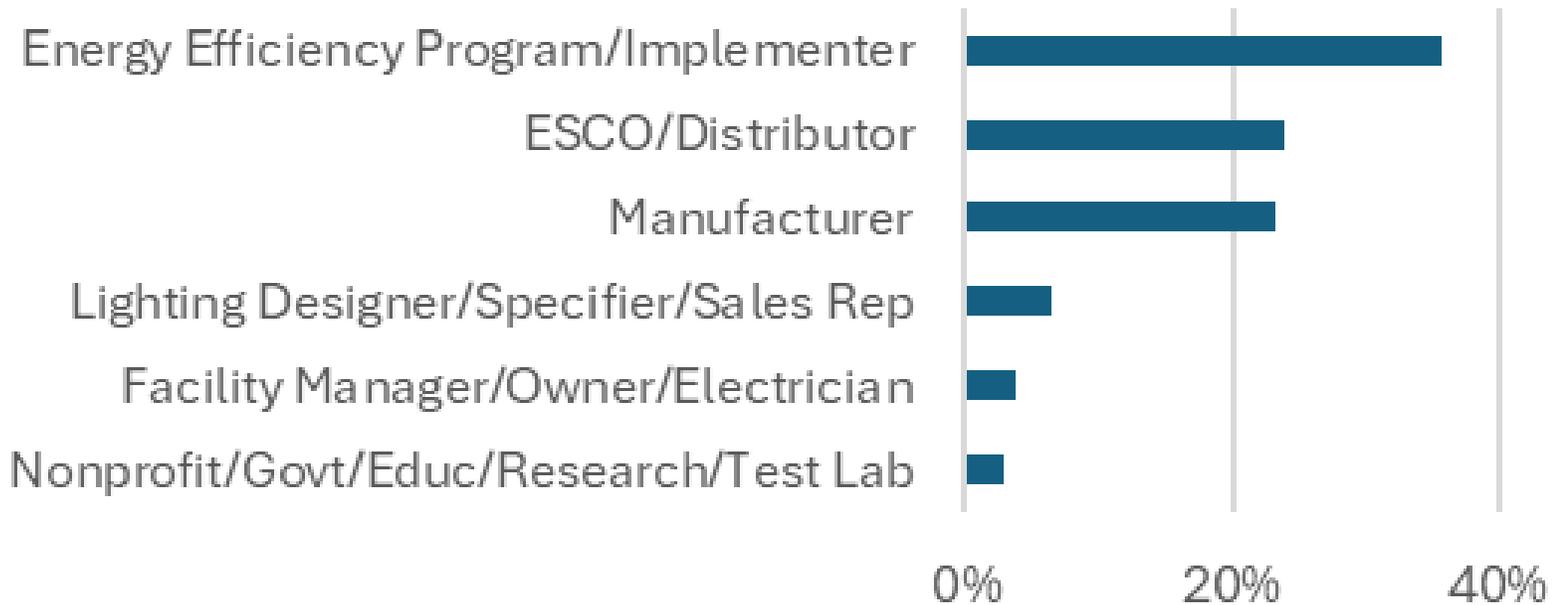


Poll: Have you used the DLC Networked Lighting Controls Qualified Products List (NLC QPL) before?

1. Frequently
2. Sometimes
3. Rarely
4. Not yet



Who has used the NLC QPL in the past 12 months?



More than 1800 different users



Agenda

Welcome, Introductions, Agenda

Introductions to the DLC and Interoperability

What's in the Networked Lighting Controls QPL?

How is the Networked Lighting Controls QPL useful?

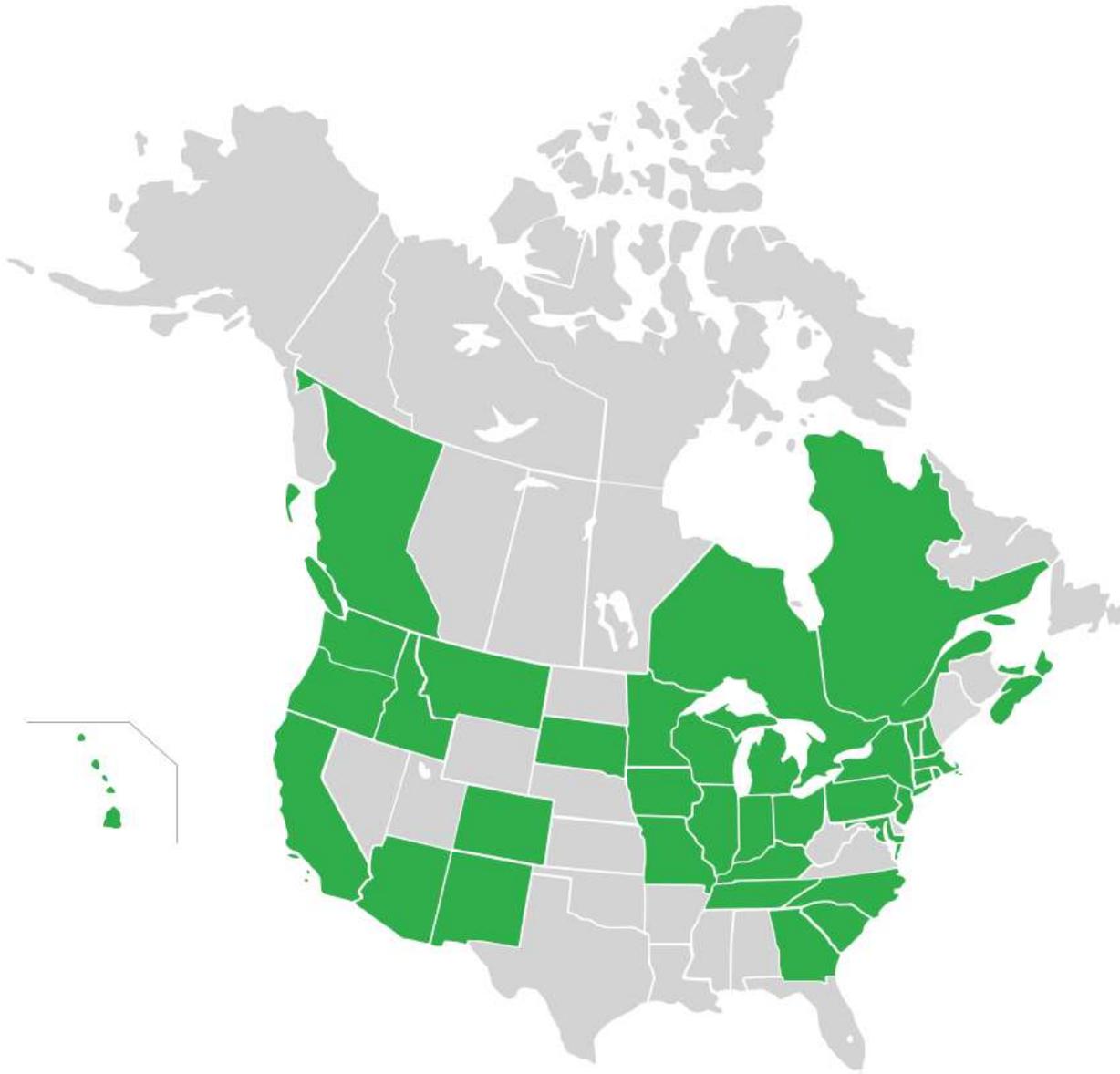
Interoperability

Cybersecurity

Conclusion and Questions



Introduction to the DLC



70+ member utility and municipal programs (in green)

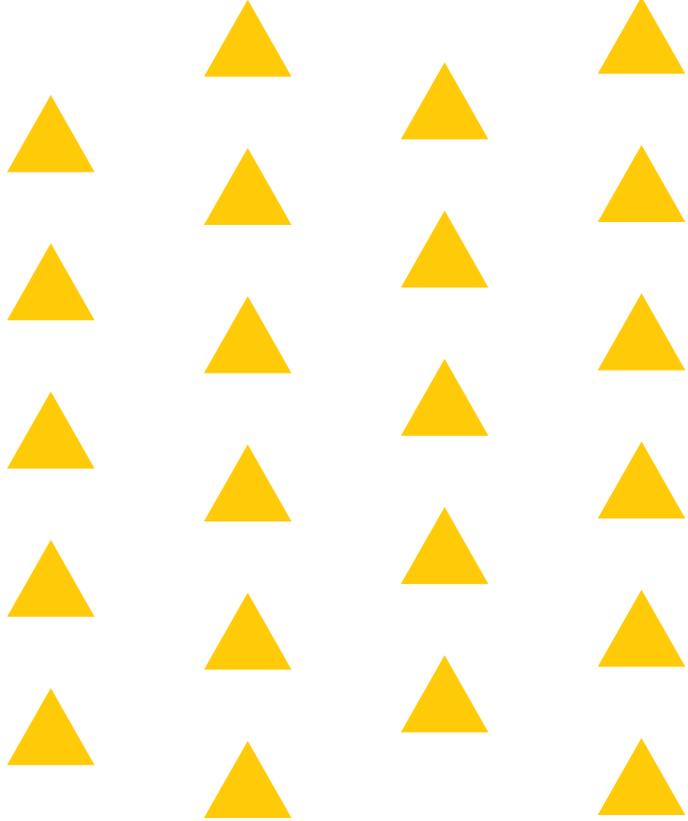
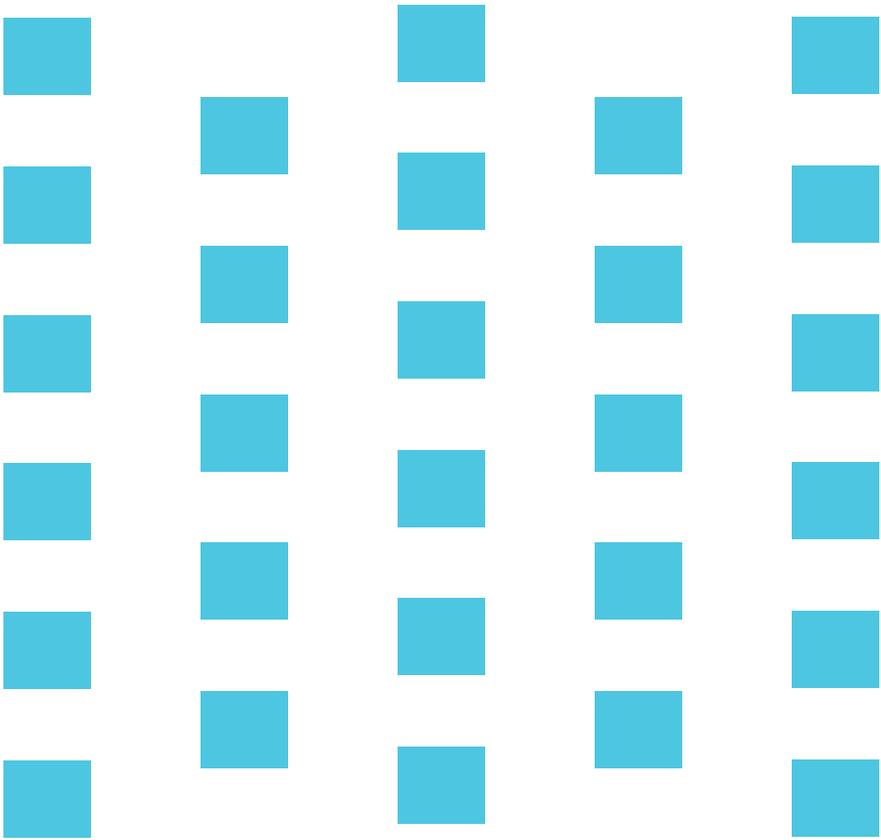
700+ non-member stakeholder organizations requiring DLC qualified product lists



DLC Member Programs (Utilities & Municipalities)

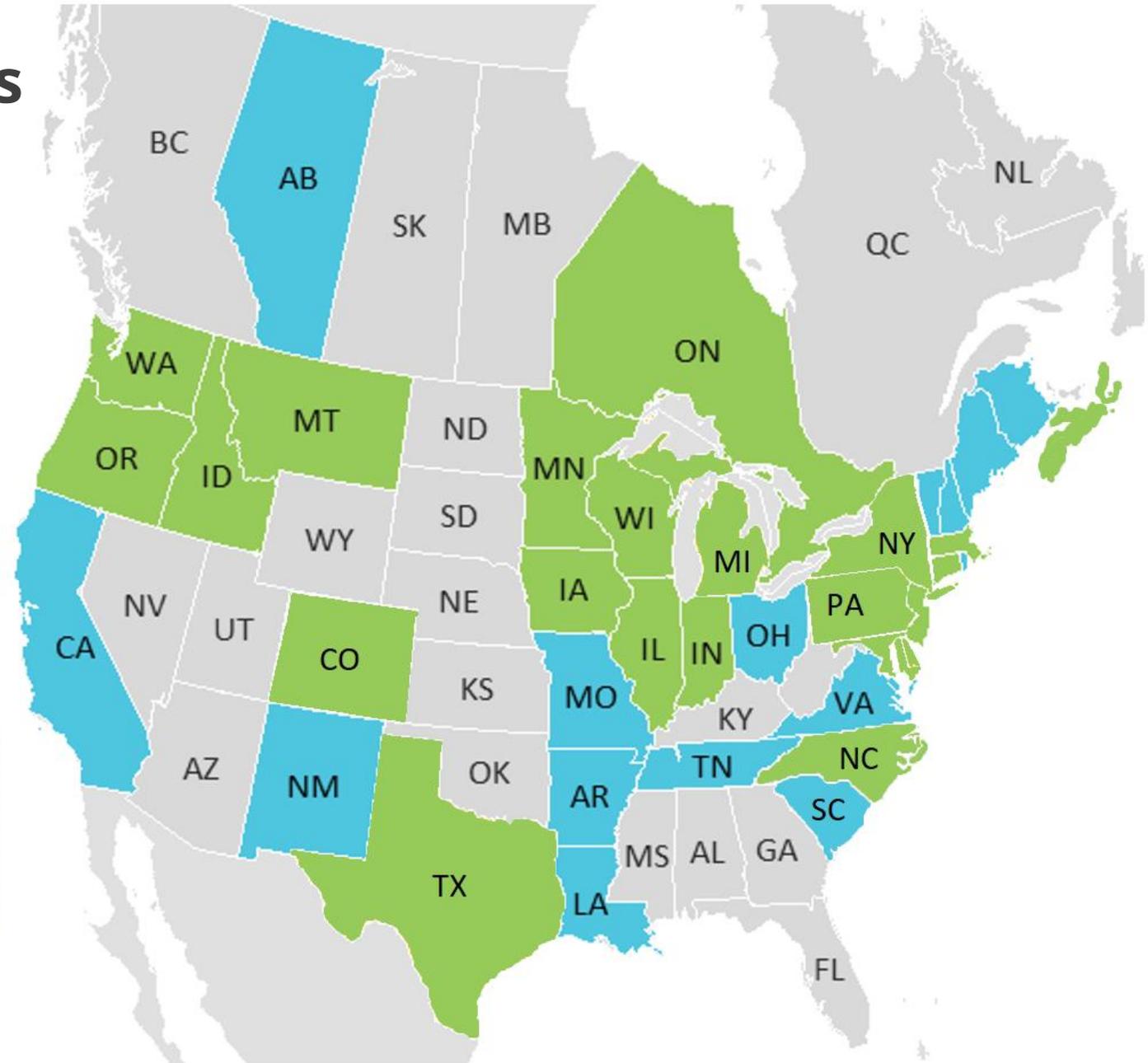


DLC Industry Partners (Lighting Manufacturers, Specifiers, Installers)



Rebates and Incentives for Networked Lighting Controls

-  NLC projects of all sizes
-  Only large NLC projects
-  No NLC incentives found



Incentives may not be available in all parts of each green or blue state or province.



Introduction to Interoperability

Interoperability the Vehicle to Owner Outcomes

Owners are asking for Outcomes requiring interoperability.

interoperability means that equipment and software from different vendors can communicate without requiring custom modifications.



Interoperability

Make friends and
Play well with others





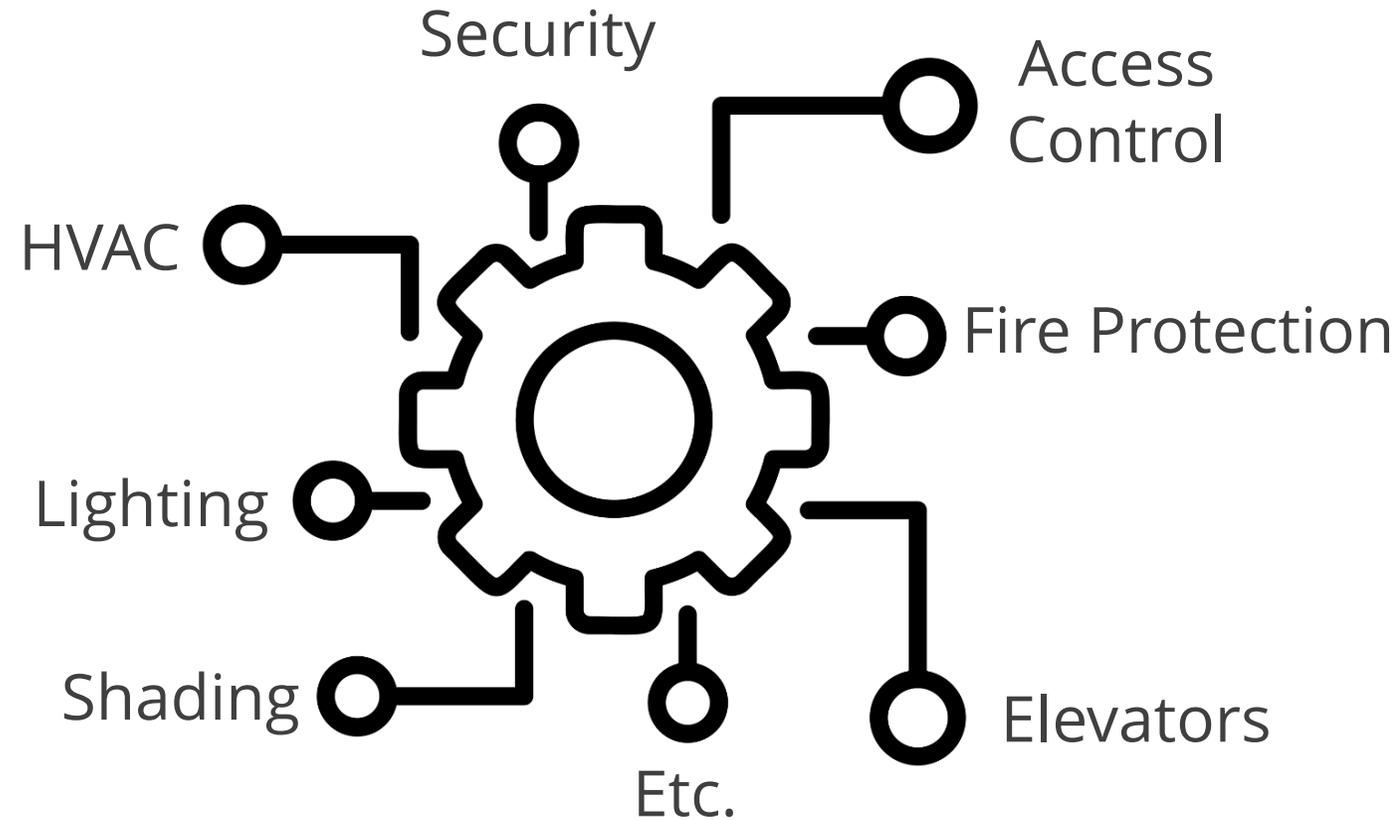
HEARD AT THE SUMMIT

“

People aren't asking for integration, they are asking for positive outcomes, efficiency, and systems that work together.

”

Interoperability transforms Building Controls Technologies enabling holistic Automation



DLC Vision for Interoperable NLC

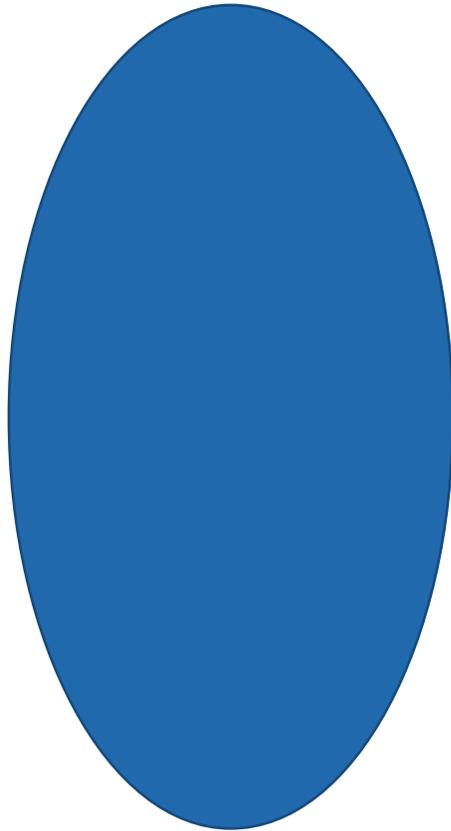
- Enhanced market value 
- Energy efficient buildings 
- Comfortable occupants 
- Efficient facility operations 
- Market adoption and expansion 
- Saving more electricity 





What's in the NLC QPL?

All lighting controls





**Networked Lighting Control System
Technical Requirements**

**Version NLCS
January 25, 2021**

1
2
3
4
5 Note: Changes from Version 4.0 are highlighted in yellow.
6 This version of the Technical Requirements document contains corrections and clarifications made to the
7 originally released document, which are displayed as Policy Clarifications and Updates at the end of this
8 document.

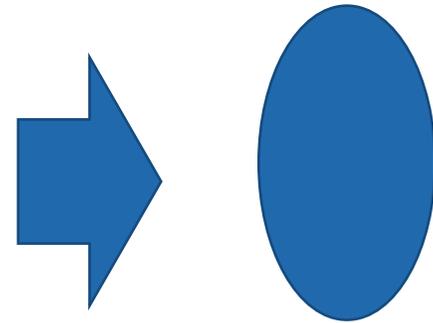
9 **Schedule of Revisions**

Revision No.	Date	Description
1.0	Apr 21, 2016	<ul style="list-style-type: none">Initial Technical Requirements published.
1.01	May 7, 2016	<ul style="list-style-type: none">Clarified that the Technical Requirements are for interior control systems. Systems designed and marketed exclusively for exterior applications are not eligible to be qualified.
1.02	Feb 24, 2017	<ul style="list-style-type: none">Clarified that the Technical Requirements do not cover DC or PoE systems.
2.0	Jun 1, 2017	<ul style="list-style-type: none">Version 2.0 published, with addition of exterior control systems.
3.0	Jun 1, 2018	<ul style="list-style-type: none">Version 3.0 published, with addition of DC/PoE systems, scenes, and multi-year plans for energy monitoring and cybersecurity.
4.0	Jun 10, 2019	<ul style="list-style-type: none">Version 4.0 published, with addition of energy monitoring requirement, criteria for cybersecurity certifications, and building management systems capable of networked lighting control.
5.0	June 23, 2020	<ul style="list-style-type: none">NLCS published, with addition of cybersecurity requirement. Energy monitoring definition aligned with ASHRAE 90.1-2016. Three capabilities labeled as supporting Interoperability.

10

 NLCS Technical Requirements
Released June 23, 2020; Updated December 18, 2020 Page 1 of 21

Networked Lighting Controls on the DLC List

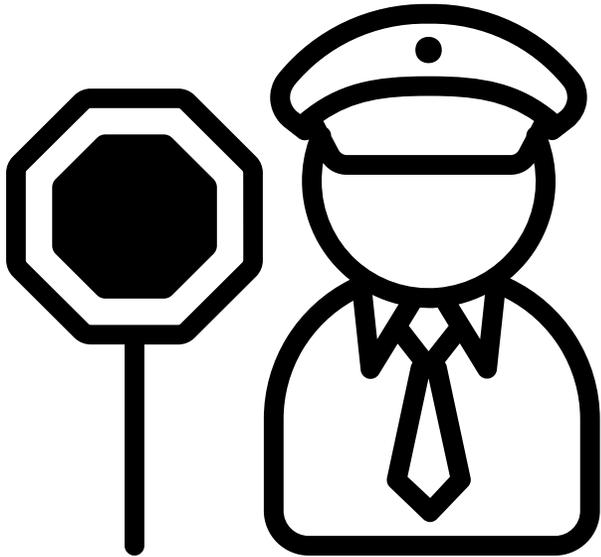


Each Capability is

“Required”

or

“Reported”



Networked Lighting Control REQUIRED Capabilities



- **Networking of Luminaires and Devices**
- **Occupancy Sensing**
- **Cybersecurity**
- Daylight Harvesting
- High-End Trim
- Zoning
- Individual Luminaire Addressability
- Continuous Dimming
- Energy Monitoring (except room-level)



Networked Lighting Control REPORTED Capabilities

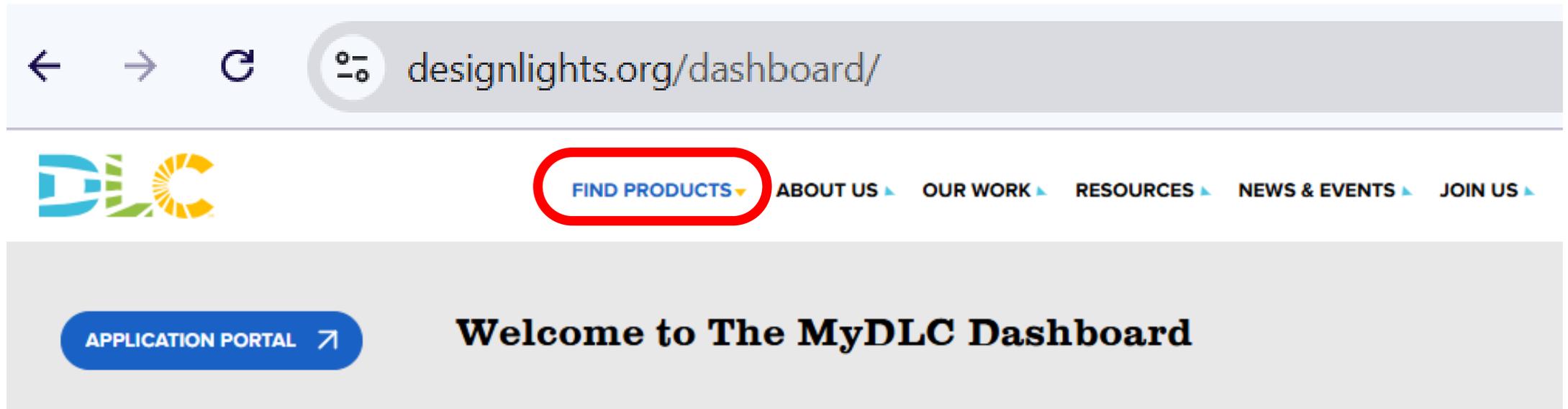


- **Remote Diagnostics**
- Plug Load Control
- Traffic Sensing
- Control Persistence
- User Interface
- Personal Control
- Emergency Lighting
- Color Changing/Tuning
- Scheduling

- **External Systems Integration**
- Luminaire Level Lighting Control (LLLC)
- Load Shedding/Demand Response
- Scene Control



Open the DLC List of Networked Lighting Controls



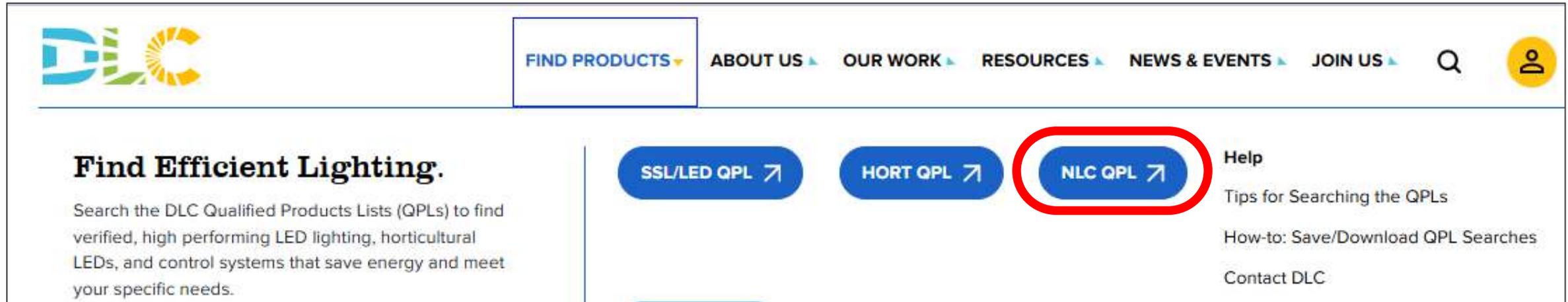
The screenshot shows a web browser window with the address bar containing "designlights.org/dashboard/". The page header features the DLC logo on the left and a navigation menu on the right. The "FIND PRODUCTS" link is highlighted with a red oval. Below the header, a blue button labeled "APPLICATION PORTAL" with an external link icon is on the left, and the text "Welcome to The MyDLC Dashboard" is centered.

← → ↻  designlights.org/dashboard/

 [FIND PRODUCTS](#) [ABOUT US](#) [OUR WORK](#) [RESOURCES](#) [NEWS & EVENTS](#) [JOIN US](#)

[APPLICATION PORTAL](#) ↗ **Welcome to The MyDLC Dashboard**

Open the DLC List of Networked Lighting Controls



The screenshot shows the top navigation bar of the DLC website. On the left is the DLC logo. To its right is a 'FIND PRODUCTS' dropdown menu. Further right are links for 'ABOUT US', 'OUR WORK', 'RESOURCES', 'NEWS & EVENTS', and 'JOIN US'. A search icon and a user profile icon are on the far right. Below the navigation bar, on the left, is a section titled 'Find Efficient Lighting.' with a description: 'Search the DLC Qualified Products Lists (QPLs) to find verified, high performing LED lighting, horticultural LEDs, and control systems that save energy and meet your specific needs.' To the right of this section are three blue buttons: 'SSL/LED QPL', 'HORT QPL', and 'NLC QPL'. The 'NLC QPL' button is circled in red. To the right of these buttons is a 'Help' section with links: 'Tips for Searching the QPLs', 'How-to: Save/Download QPL Searches', and 'Contact DLC'.

DLC

FIND PRODUCTS ▾

ABOUT US ▾

OUR WORK ▾

RESOURCES ▾

NEWS & EVENTS ▾

JOIN US ▾

Q

Do

Find Efficient Lighting.

Search the DLC Qualified Products Lists (QPLs) to find verified, high performing LED lighting, horticultural LEDs, and control systems that save energy and meet your specific needs.

SSL/LED QPL ↗

HORT QPL ↗

NLC QPL ↗

Help

- Tips for Searching the QPLs
- How-to: Save/Download QPL Searches
- Contact DLC



You have 0 saved items

Save Search Criteria

View Saved Searches

Listed Products ▾

Manufacturer and Brand

filter this list

- ASD Lighting Corp (1)
- Acuity Brands (5)
- Advantage Lighting Solutions (1)
- Affinity LED Lighting (1)
- Airlite Corporation (2)
- Aleo Lighting, Inc. (2)

Brand

filter this list

- ALS Control (1)
- ASD NLS (1)
- Acuity Controls (3)
- Airlite (2)
- Aleo Lighting (2)
- Athena (1)

Search by system name, manufacturer, brand, or product ID



Search Tip: For an exact search, use quotes around the search term (ex. "PVO5LXDK").
For resources on how to search and navigate the QPL, see the DLC's [video tutorials](#).

Prev 1 2 3 4 Next

Viewing 1-25 of 95 results

Add All Results to My List

Wave

Add to my list

Manufacturer: Airlite Corporation
Brand: Airlite

Outdoor Scope: Structured Parking,Area/Building
Exterior/Parking,Streetlight (residential streets)
Technical Requirements Version: 5.0

OPEN IN NEW TAB

Autonomy Lighting

Add to my list

Manufacturer: JDRF Electromag Engineering Inc
Brand: JDRF Electromag

Indoor Scope: Portfolio/Enterprise
Technical Requirements Version: 5.0

OPEN IN NEW TAB

Technilight Smart Lighting Control

Add to my list

Manufacturer: Voltech international inc
Brand: Technilight Smart

Indoor Scope: Portfolio/Enterprise,Whole
Building,Room or Zone,Structured Parking



You have 0 saved items

Save Search Criteria View Saved Searches

Listed Products

Manufacturer and Brand

filter this list

- ASD Lighting Corp (1)
- Acuity Brands (5)
- Advantage Lighting Solutions (1)
- Amity LED Lighting (1)
- Aimlite Corporation (2)
- Aleo Lighting, Inc. (2)

Brand

filter this list

- ALS Control (1)
- ASD NLS (1)
- Acuity Controls (3)
- Aimlite (2)
- Aleo Lighting (2)
- Athena (1)

Search by system name, manufacturer, brand, or product ID

Search Tip: For an exact search, use quotes around the search term (ex. "PVO5LXDK").
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Prev 1 Next

Viewing 7 results

Add All Results to My List

Active Filters

- Manufacturer: ASD Lighting Corp
- Manufacturer: Acuity Brands
- Manufacturer: Advantage Lighting Solutions

ASD NLS Add to my list

Manufacturer: ASD Lighting Corp
Brand: ASD NLS

Indoor Scope: Whole Building,Room or Zone,Structured Parking
Technical Requirements Version: 5.0

OPEN IN NEW TAB

ALS Control Add to my list

Manufacturer: Advantage Lighting Solutions
Brand: ALS Control

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking
Technical Requirements Version: 5.0

OPEN IN NEW TAB

You have 0 saved items

Save Search Criteria View Saved Searches

Listed Products

- Manufacturer and Brand
- filter this list
- ASD Lighting Corp (1)
 - Acuity Brands (5)
 - Advantage Lighting Solutions (1)
 - Affinity LED Lighting (1)
 - Aimlite Corporation (2)
 - Aleo Lighting, Inc. (2)

- Brand
- filter this list
- ALS Control (1)
 - ASD NLS (1)
 - Acuity Controls (3)
 - Aimlite (2)
 - Aleo Lighting (2)
 - Athena (1)

- Ease of Implementation
- Installation Contractor With Less Than 1 Day Of Training (70)
 - Installation Contractor With Less Than 1 Day Of Training, Working With Remote Personnel At Fa

Search by system name, manufacturer, brand, or product ID

Search Tip: For an exact search, use quotes around the search term (ex. "PVO5LXDK").
For resources on how to search and navigate the QPL, see the DLC's video tutorials.

Prev 1 Next

Viewing 1 result

Add All Results to My List

Active Filters

Manufacturer: ASD Lighting Corp

ASD NLS

Add to my list

Manufacturer: ASD Lighting Corp
Brand: ASD NLS

Indoor Scope: Whole Building, Room or Zone, Structured Parking
Technical Requirements Version: 5.0

OPEN IN NEW TAB

Prev 1 Next

Manufacturer +
filter this list X

Brand +
filter this list X

Ease of Implementation +

Technical Requirements Version +

Indoor Scope +

Outdoor Scope +

Advanced Capabilities +

User Interface +

Integral Controls +

Wired/Wireless Communication +

IntrinsiX Xone

Manufacturer: IntrinsiX Lighting

Brand: IntrinsiX Xone

Outdoor Scope: St

Exterior/Parking,Str

Technical Require

Genio

Manufacturer: Standard Products Inc.

Brand: Stanpro

Outdoor Scope: St

Exterior/Parking,Str

Technical Require

LumaLinx

Manufacturer: Jaykal LED Solutions,Inc.

Brand: LumaLinx

Indoor Scope: Por

Building,Room or Z

Technical Require

CONTROLLED

Manufacturer: RAB Design Lighting

Outdoor Scope: St

filter this list



Ease of Implementation



Technical Requirements Version



Indoor Scope



Outdoor Scope



Advanced Capabilities



Demand Response (55)

Energy Monitoring (82)

Integration With API (40)

Integration With BACnet Systems (31)

Integration With Shading Systems (10)

Plug Load Control (59)

User Interface



Manufacturer: IntrinsiX Lighting

Brand: IntrinsiX Xone

Genio

Manufacturer: Standard Products Inc.

Brand: Stanpro

LumaLinx

Manufacturer: Jaykal LED Solutions, Inc.

Brand: LumaLinx

CONTROLLED

Manufacturer: RAB Design Lighting

Brand: RAB Design

HY NLC

You have 0 saved items

Save Search Criteria

View Saved Searches

Listed Products

Manufacturer and Brand

filter this list

Brand

filter this list

Ease of Implementation

Technical Requirements Version

Indoor Scope

Outdoor Scope

Advanced Capabilities

- Color Tuning (77)
- Cybersecurity (95)
- Demand Response (62)
- Energy Monitoring (90)
- Integration With API (41)

Integration With BACnet Systems (34)

32

User Interface

Search by system name, manufacturer, brand, or product ID

X

Search Tip: For an exact search, use quotes around the search term (ex. "PV05LXDK").
For resources on how to search and navigate the QPL, see the DLC's [video tutorials](#).

Prev 1 2 Next

Viewing 1-25 of 34 results

Add All Results to My List

Active Filters

Advanced Capabilities: Integration with BACnet systems

Autonomy Lighting

Add to my list

Manufacturer: JDRF Electromag Engineering Inc

Brand: JDRF Electromag

Indoor Scope: Portfolio/Enterprise

Technical Requirements Version: 5.0

OPEN IN NEW TAB

SmartProControls

Add to my list

Manufacturer: SmartProControls Co., Ltd

Brand: SmartProControls

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking

Technical Requirements Version: 5.0

OPEN IN NEW TAB

BubblyNet

Add to my list

Manufacturer: BubblyNet, LLC

Brand: BubblyNet

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking

Technical Requirements Version: 5.0

OPEN IN NEW TAB

Manufacturer +
filter this list X

Brand +
filter this list X

Ease of Implementation +

Technical Requirements Version -
 5.0 (90)

Indoor Scope +

Outdoor Scope +

Advanced Capabilities -

- Demand Response (55)
- Energy Monitoring (82)
- Integration With API (40)
- Integration With BACnet Systems (31)
- Integration With Shading Systems (10)
- Plug Load Control (59)

User Interface +

Active Filters

Advanced Capabilities: Integration with BACnet systems

HY NLC

Add to m

Manufacturer: Honya Lighting LLC
Brand: H

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking

Technical Requirements Version: 5.0

TCP NLS

Add to m

Manufacturer: Technical Consumer Products
Brand: TCP

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking

Technical Requirements Version: 5.0

ALS Control

Add to m

Manufacturer: Advantage Lighting Solutions
Brand: ALS Control

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking

Technical Requirements Version: 5.0

nLight

Add to m

Manufacturer: Acuity Brands
Brand: Acuity Controls

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone

Technical Requirements Version: 5.0





HY NLC

Manufacturer: Honya Lighting LLC

Scope: Indoor

Scale: Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking

Technical Requirements Version: 5

Animate bold red x's

PRODUCT OVERVIEW

Manufacturer	Honya Lighting LLC
Product Website	View Website
QPL	Networked Lighting Controls
Listing Status	Listed
Date Qualified	2024-12-17
Technical Support Phone	516-832-1016
Standard Warranty Length	5

SUMMARY

- ✓ Networking
- ✗ Traffic Sensing
- ✓ High-End Trim
- ✓ Individual Luminaire Addressability
- ✓ Control Persistence
- ✓ Energy Monitoring
- ✓ User Interface
- ✓ Personal Control
- ✓ Plug Load Control
- ✓ Emergency Lighting
- ✓ Color Changing/Tuning
- ✓ Occupancy Sensing
- ✓ Daylight Harvesting
- ✓ Zoning
- ✓ Continuous Dimming
- ✓ Scheduling
- ✗ Remote Diagnostics
- ✓ Luminaire Level Lighting Control (LLLC)
- ✗ Load Shedding/Demand Response
- ✓ External Systems Integration
- ✓ Cybersecurity
- ✓ Scene Control



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Scope: Indoor

Scale: Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking

Technical Requirements Version: 5

PRODUCT OVERVIEW

Manufacturer Honya Lighting LLC

Product Website [View Website](#)

QPL Networked Lighting Controls

Listing Status Listed

Date Qualified 2024-12-17

Technical Support Phone 516-832-1016

Standard Warranty Length 5

SUMMARY

- | | |
|---------------------------------------|---|
| ✓ Networking | ✓ Occupancy Sensing |
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| ✓ Emergency Lighting | ✓ Cybersecurity |
| ✓ Color Changing/Tuning | ✓ Scene Control |

NETWORK

[VIEW DETAILS](#)

INTEROPERABILITY

[VIEW DETAILS](#)

ENERGY SAVING STRATEGIES

[VIEW DETAILS](#)

CONTROL

[VIEW DETAILS](#)

ADDITIONAL CAPABILITIES

[VIEW DETAILS](#)

START-UP AND CONFIGURATION

[VIEW DETAILS](#)

VERSION HISTORY

[VIEW DETAILS](#)

PRODUCT OVERVIEW

Manufacturer Honya Lighting LLC

Product Website [View Website](#)

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NETWORK

[VIEW DETAILS](#)

INTEROPERABILITY

[VIEW DETAILS](#)

ENERGY SAVING STRATEGIES

[VIEW DETAILS](#)

CONTROL

[VIEW DETAILS](#)

ADDITIONAL CAPABILITIES

[VIEW DETAILS](#)

START-UP AND CONFIGURATION

[VIEW DETAILS](#)

VERSION HISTORY

[VIEW DETAILS](#)

INTEROPERABILITY

Energy Monitoring

Has Energy Monitoring  Yes

Energy monitoring method Wattage LUT without manual data entry

Is optional hardware or software needed?  Yes

Duration that aggregated energy data is available  Will be stored on cloud forever

Loads included in a data point of the reported power/energy consumption Light engine/lamp, Driver/ballast

Data record .CSV and/or API .CSV

ENERGY SAVING STRATEGIES

[VIEW DETAILS](#)

INTEROPERABILITY

External Systems Integration

Has External systems
integration 

Yes

Communication Protocols
Supported

BACNet® /IP (ANSI SSPC 135)

Operational commands can
be input via BMS 

Yes

Response time for lighting
scene change request via
BMS 

1second

Has API 

Yes

INTEROPERABILITY

Has External systems integration ⓘ

Yes

Communication Protocols Supported

BACNet® /IP (ANSI SSPC 135), Contact closure, MODBUS® / RS-232, RS-485

System level data communicated via BMS

Lighting scene setting, Loadshed status, Manual override status

Zone level data communicated via BMS

Lighting scene setting, Loadshed status, Manual override status

Luminaire level data communicated via BMS

Light level, Occupancy status, Luminaire/power pack status

Operational commands can be input via BMS ⓘ

Yes

PRODUCT OVERVIEW

Manufacturer Honya Lighting LLC

Product Website [View Website](#)

QPL Networked Lighting Controls

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NETWORK

[VIEW DETAILS](#)

INTEROPERABILITY

[VIEW DETAILS](#)

ENERGY SAVING STRATEGIES

[VIEW DETAILS](#)

CONTROL

[VIEW DETAILS](#)

ADDITIONAL CAPABILITIES

[VIEW DETAILS](#)

START-UP AND CONFIGURATION

[VIEW DETAILS](#)

VERSION HISTORY

[VIEW DETAILS](#)

ADDITIONAL CAPABILITIES

Cybersecurity

Has Cybersecurity Yes



Cybersecurity standard(s) met SOC2, ioXt

Remote Diagnostics

Has Remote Diagnostics Yes



Characteristics remotely Communication Issues, Status: online/offline devices, Device errors, Component failures



- ✓ Occupancy Sensing
- ✓ Daylight Harvesting
- ✓ Zoning
- ✓ Continuous Dimming
- ✓ Scheduling
- ✓ Remote Diagnostics
- ✓ Luminaire Level Lighting Control (LLLC)

Addressability



Levin Nock
Log Out

Home / DLC Qualified Product Lists / Networked Lighting Controls

You have 0 saved items

Save Search Criteria

View Saved S

Listed Products

Manufacturer and Brand

filter this list

Brand

filter this list

43

Search by system name, manufacturer, brand, or product



Search Tip: For an exact search, use quotes around the search term (ex. "PVO5LXDK").

For resources on how to search and navigate the QPL, see the DLC's [video tutorials](#).

Prev

1

2

Next

Viewing 1-25 of 34 results

Add All Results to My List

Active Filters

Advanced Capabilities: Integration with BACnet systems



Levin Nock
Log Out

Home / DLC Qualified Product Lists / Networked Lighting Controls

You have 34 saved items

DOWNLOAD MY LIST

Save Search Criteria

View Saved S

Listed Products

Manufacturer and Brand

filter this list

44 Brand

Search by system name, manufacturer, brand, or product



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Prev

1

2

Next

Viewing 1-25 of 34 results

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Advanced Capabilities: Integration with BACnet systems

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- ✗ Load Shedding/Demand Response
- ✓ External Systems Integration
- ✓ Cybersecurity
- ✓ Scene Control

	D	F	G	H
1	Manufacturer	System	Product Interior Scope	Product Exterior Scope
2	Acuity Brands	nLight Air	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
3	Acuity Brands	nLight Air		Structured Parking, Area/Building Exterior/Parking
4	Acuity Brands	SensorSwitch AIR	Room or Zone	
5	Acuity Brands	nLight	Portfolio/Enterprise, Whole Building, Room or Zone	
6	Acuity Brands	Atrius® Dimming	Portfolio/Enterprise, Whole Building, Room or Zone	
7	Advantage Lighting Solutions	ALS Control	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
8	Affinity LED Lighting	CLIQ Connected	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
9	Aimlite Corporation	Wave	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
10	Aimlite Corporation	Wave		Structured Parking, Area/Building Exterior/Parking
11	Aleo Lighting, Inc.	AleoBlue	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
12	Aleo Lighting, Inc.	SimplBlue	Room or Zone, Structured Parking	
13	Ark Smart Inc.	LumiEasy		Structured Parking, Area/Building Exterior/Parking
15	Ark Smart Inc.	LumiEasy	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
16	ASD Lighting Corp	ASD NLS	Whole Building, Room or Zone, Structured Parking	
17	Avi-on Labs, Inc.	Avi-on Lighting Control Platform	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
18	Barron Lighting Group Inc.	LiteLogic	Room or Zone, Structured Parking	
19	Barron Lighting Group Inc.	LiteLogic		Structured Parking, Area/Building Exterior/Parking
20	BubblyNet, LLC	BubblyNet	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
22	Casambi Technologies	Casambi	Portfolio/Enterprise, Whole Building, Room or Zone	
23	Casambi Technologies	Casambi		Structured Parking, Area/Building Exterior/Parking
24	Cooper Lighting Solutions (formerly Eaton)	WaveLinx CAT	Room or Zone	
25	Cooper Lighting Solutions (formerly Eaton)	WaveLinx Wireless Connected Lighting	Portfolio/Enterprise, Whole Building, Room or Zone	
26	Cooper Lighting Solutions (formerly Eaton)	WaveLinx Wireless Connected Lighting		Area/Building Exterior/Parking
27	Cooper Lighting Solutions (formerly Eaton)	WaveLinx Lite	Room or Zone	
28	Crestron Electronics	Crestron Zūm™	Portfolio/Enterprise, Whole Building, Room or Zone	
29	Current	EZ Connect	Room or Zone	
30	Current	NX Distributed Intelligence	Portfolio/Enterprise, Whole Building, Room or Zone, Structured Parking	
31	Current	NX Distributed Intelligence		Structured Parking, Area/Building Exterior/Parking
32	EarthTronics Inc.	EarthConnect	Room or Zone, Structured Parking	
33	Hangzhou LMenergysolution Lighting Co. LTI LMIC		Room or Zone	



	F	EO	EP	EQ
1	System	Cybersecurity standard(s) met	Cybersecurity service	Compliance with CA SB-327
2	nLight Air	SOC2, ioXt		
3	nLight Air	SOC2, ioXt		
4	SensorSwitch AIR	SOC2		
5	nLight	SOC2, ioXt		
6	Atrius® Dimming	SOC2		
7	ALS Control	ioXt		
8	CLIQ Connected		UL MCV 1376	
9	Wave		UL MCV 1376	
10	Wave		UL MCV 1376	
11	AleoBlue	ioXt		
12	SimplBlue		UL MCV 1376	
13	LumiEasy		UL MCV 1376	
15	LumiEasy		UL MCV 1376	
16	ASD NLS	ISO 27,001, ISO 27,017, CSA STAR		
17	Avi-on Lighting Control Platform		UL MCV 1376	
18	LiteLogic		UL MCV 1376	
19	LiteLogic		UL MCV 1376	
20	BubblyNet	ioXt		
22	Casambi	ioXt		
23	Casambi	ioXt		
24	WaveLinx CAT	IEC 62443-4-1		
25	WaveLinx Wireless Connected Lighting	ANSI UL 2900-1		TRUE
26	WaveLinx Wireless Connected Lighting	ANSI UL 2900-1		TRUE
27	WaveLinx Lite	IEC 62443-4-1		
28	Crestron Zūm™		UL MCV 1376	



You have 0 saved items

Save Search Criteria

View Saved Searches

Listed Products ▾

Manufacturer and Brand

filter this list X

- ASD Lighting Corp (1)
- Acuity Brands (5)
- Advantage Lighting Solutions (1)
- Affinity LED Lighting (1)
- Airlite Corporation (2)
- Aleo Lighting, Inc. (2)

Brand

filter this list X

- ALS Control (1)
- ASD NLS (1)
- Acuity Controls (3)
- Airlite (2)
- Aleo Lighting (2)
- Athena (1)

Search by system name, manufacturer, brand, or product ID



Search Tip: For an exact search, use quotes around the search term (ex. "PVO5LXDK").
For resources on how to search and navigate the QPL, see the DLC's [video tutorials](#).

Prev 1 2 3 4 Next

Viewing 1-25 of 95 results

Add All Results to My List

Wave

Add to my list

Manufacturer: Airlite Corporation
Brand: Airlite

Outdoor Scope: Structured Parking,Area/Building
Exterior/Parking,Streetlight (residential streets)
Technical Requirements Version: 5.0

OPEN IN NEW TAB ↗

Autonomy Lighting

Add to my list

Manufacturer: JDRF Electromag Engineering Inc
Brand: JDRF Electromag

Indoor Scope: Portfolio/Enterprise
Technical Requirements Version: 5.0

OPEN IN NEW TAB ↗

Technilight Smart Lighting Control

Add to my list

Manufacturer: Voltech international inc
Brand: Technilight Smart

Indoor Scope: Portfolio/Enterprise,Whole
Building,Room or Zone,Structured Parking

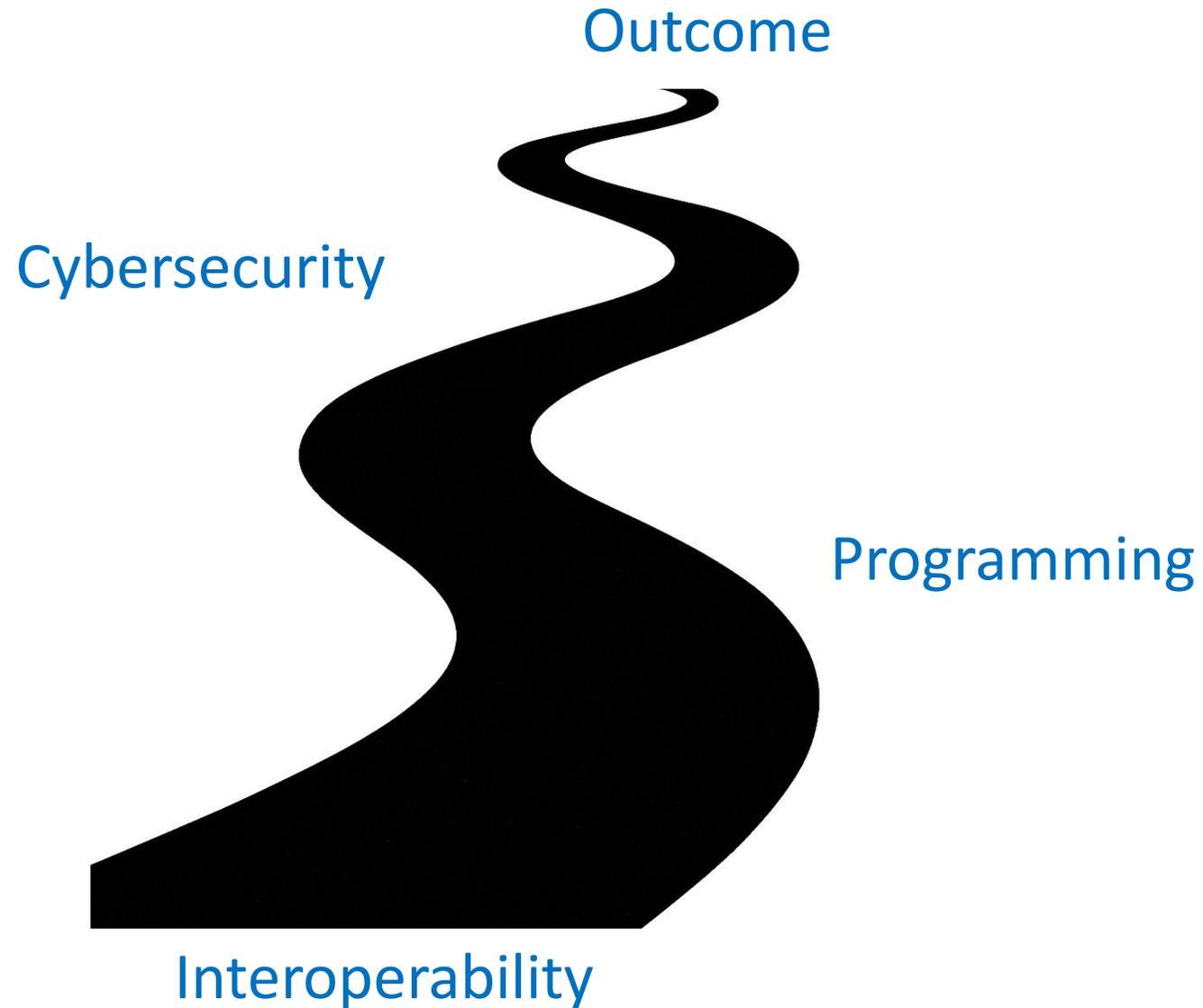
How is the QPL useful?



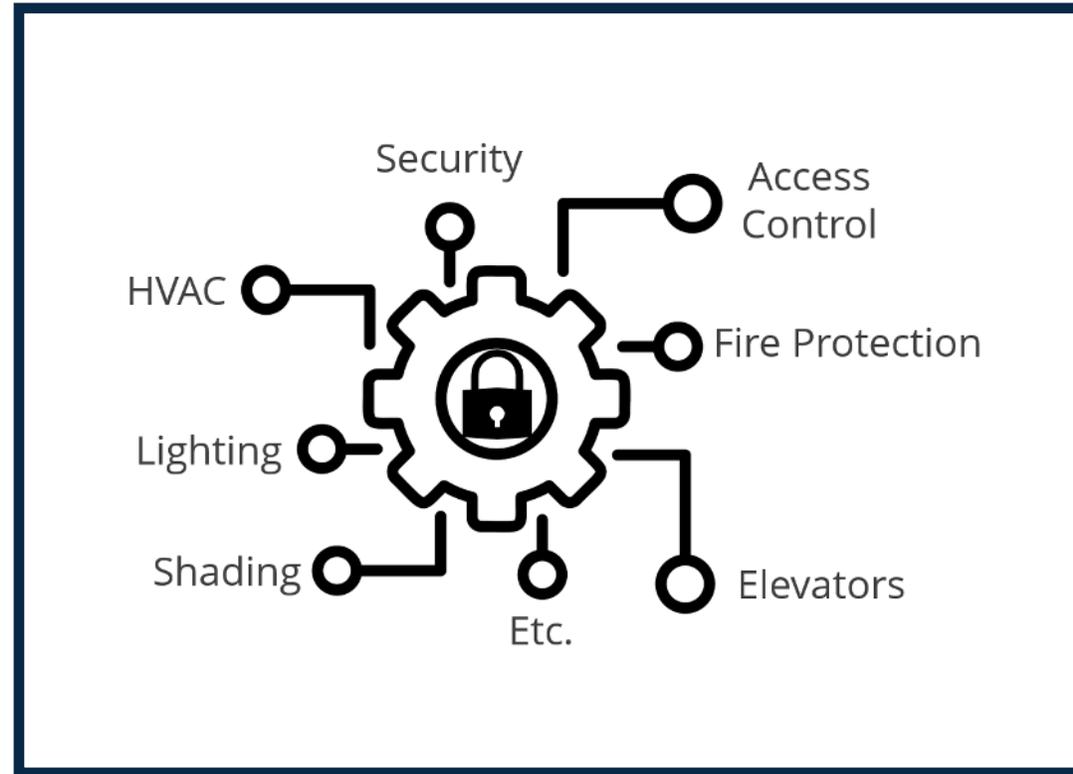
Interoperability



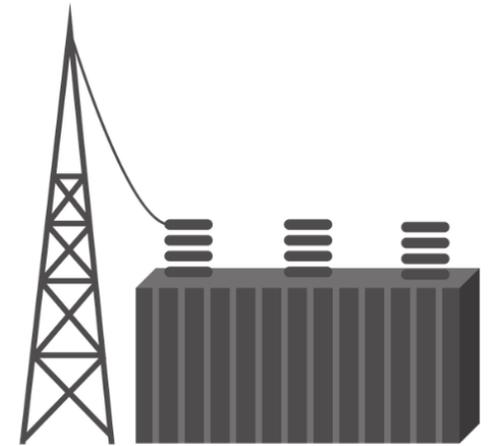
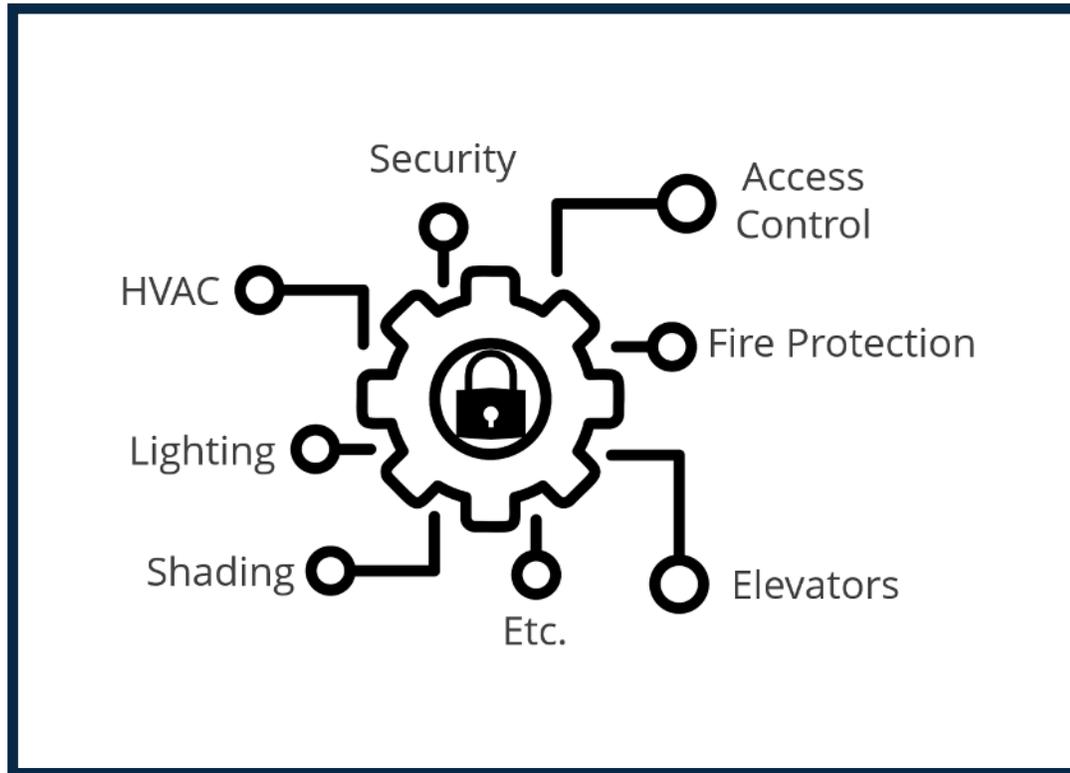
Interoperability Launching Point for Owner Outcomes



Different Control Systems within a Building



Interoperability beyond a Building



Demand Response
OpenADR



Filter & Sort for Demand Response

System	Has DR	External signal type	OpenADR Compliant	Type of DR
F	CT	CV	CW	CX
1 System	Demand Respon	External signal type/method	OpenADR compliant	Type of DR (Scenes or Preset)
4 Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
5 Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
6 AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
7 HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
9 nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
10 nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
12 nLight	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
13 Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
16 Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
17 SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
18 SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
19 Wive	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A dedicated (configurable) scene
20 Wattstopper DLM - Digit	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A native/built-in light level scale-back
22 SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0b	A dedicated (configurable) scene, App notification, Email
23 Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
24 Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
25 WaveLinx Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
26 WaveLinx Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
33 Lumos Controls	TRUE	OpenADR via internet, Third Party system, Direct platform connect	2.0b	A dedicated (configurable) scene, App notification, Email
34 BubblyNet	TRUE	BACnet		A native/built-in light level scale-back
35 Crestron Zim™	TRUE	BACnet, Dry Contact		A native/built-in light level scale-back
36 Avi-on Lighting Control I	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch		A dedicated (configurable) scene
37 Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch		A native/built-in light level scale-back
38 c-Max Network Lighting	TRUE	BACnet, OpenADR via internet		A dedicated (configurable) scene
39 Atrius® Dimming	TRUE	BACnet, OpenADR via internet		
42 Athena	TRUE	BACnet, OpenADR via internet		A native/built-in light level scale-back
45 Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
46 Intrinsic Xone	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
49 LumaLinx	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
50 Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
51 Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
54 CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
55 Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
56 Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
57 SLG Sync	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
58 Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
59 Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
61 Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
62 CLIQ Connected	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
64 Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
65 LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
66 LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
67 EarthConnect	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
68 NUR0Air	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
70 SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
71 SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
74 TEELIO	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
75 CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
76 Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
79 WareSense Blue	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
81 WaveLinx CAT	TRUE	Dry Contact		A native/built-in light level scale-back
82 NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83 NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
84 LumiEasy	TRUE			
86 LumiEasy	TRUE			
87 Interact Pro	TRUE			
88 LiteLinQ	TRUE			
91 LiteLinQ	TRUE			
96 RENO SMART	TRUE			
97				
98				

Filter & Sort for Demand Response

System	Has DR	External signal type	OpenADR Compliant	Type of DR
F	CT	CV	CW	CX
1	System	Demand Respon		
4	Jarvis Link	TRUE	BACnet, Dry Conta	r device (similar functionality to high end trim)
5	Jarvis Link	TRUE	BACnet, Dry Conta	r device (similar functionality to high end trim)
6	AleoBlue	TRUE	BACnet, Dry Conta	r device (similar functionality to high end trim)
7	HubSense	TRUE	BACnet, Dry Conta	r device (similar functionality to high end trim)
9	nLight Air	TRUE	OpenADR via intern	/built-in light level scale-back
10	nLight Air	TRUE	OpenADR via intern	/built-in light level scale-back
12	nLight	TRUE	OpenADR via intern	/built-in light level scale-back
13	Silvair	TRUE	OpenADR via intern	r device (similar functionality to high end trim)
16	Silvair	TRUE	OpenADR via intern	r device (similar functionality to high end trim)
17	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Conta	
18	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Conta	
19	Wive	TRUE	BACnet, Dry Conta	
20	Wattstopper DLM - Digit	TRUE	BACnet, Dry Conta	
22	SmartProControls	TRUE	BACnet, Dry Conta	
23	Lightcloud	TRUE	BACnet, Dry Conta	
24	Lightcloud	TRUE	BACnet, Dry Conta	
25	WaveLinx Wireless Contr	TRUE	BACnet, OpenADR	
26	WaveLinx Wireless Contr	TRUE	BACnet, OpenADR	
33	Lumos Controls	TRUE	OpenADR via intern	
34	BubblyNet	TRUE	BACnet	
35	Crestron Zim™	TRUE	BACnet, Dry Conta	
36	Avi-on Lighting Control I	TRUE	BACnet, Dry Conta	
37	Quantum	TRUE	BACnet, Dry Conta	
38	o-Max Network Lighting	TRUE	BACnet, OpenADR	
39	Atrius® Dimming	TRUE	BACnet, OpenADR	
42	Athena	TRUE	BACnet, OpenADR	
45	Wave	TRUE	BACnet, Third Part	
46	Intrinsic Xone	TRUE	BACnet, Third Part	
49	LumaLinx	TRUE	BACnet, Third Part	
50	Keilton + autani	TRUE	BACnet, Third Part	
51	Keilton + autani	TRUE	BACnet, Third Part	
54	CONTROLLED	TRUE	BACnet, Third Part	
55	Domino	TRUE	BACnet, Third Part	
56	Domino	TRUE	BACnet, Third Part	
57	SLG Sync	TRUE	BACnet, Third Part	
58	Genio	TRUE	BACnet, Third Part	
59	Technilight Smart Lightir	TRUE	BACnet, Third Part	
61	Technilight Smart Lightir	TRUE	BACnet, Third Part	
62	CLIQ Connected	TRUE	BACnet, Third Part	
64	Wave	TRUE	BACnet, Third Part	
65	LiteLogic	TRUE	BACnet, Third Part	
66	LiteLogic	TRUE	BACnet, Third Part	
67	EarthConnect	TRUE	BACnet, Third Part	
68	NURDAir	TRUE	BACnet, Third Party system	
70	SkyFi Blu Pro	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
71	SkyFi Blu Pro	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
74	TEELIO	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
75	CONTROLLED	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
76	Genio	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
79	WareSense Blue	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
81	WaveLinx CAT	TRUE	Dry Contact	A native/built-in light level scale-back
82	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch	A native/built-in light level scale-back
83	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch	A native/built-in light level scale-back
84	LumiEasy	TRUE		
86	LumiEasy	TRUE		
87	Interact Pro	TRUE		
88	LiteLinQ	TRUE		
91	LiteLinQ	TRUE		
96	RENO SMART	TRUE		
97				
98				

Sort A to Z

Sort Z to A

Sort by Color

Sheet View

Clear Filter From "External signal t..."

Filter by Color

Text Filters

Search

- (Select All)
- BACnet
- BACnet, Dry Contact
- BACnet, Dry Contact, OpenADR via internet
- BACnet, Dry Contact, OpenADR via internet, Programmed digital switch
- BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true
- BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet
- BACnet, Dry Contact, Programmed digital switch
- BACnet, OpenADR via internet
- BACnet, OpenADR via internet, mobile app (test)
- BACnet, Third Party system
- Dry Contact
- Dry Contact, Programmed digital switch
- OpenADR via internet
- OpenADR via internet, Third Party system, Direct platform connect
- (Blanks)

OK Cancel

Filter & Sort for Demand Response

System	Has DR	External signal type	OpenADR Compliant	Type of DR
F	CT	CV	CW	CX
1	System	Demand Respon	External signal type/method	
4	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system	device (similar functionality to high end trim)
5	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system	device (similar functionality to high end trim)
6	AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system	device (similar functionality to high end trim)
7	HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system	device (similar functionality to high end trim)
9	nLight Air	TRUE	OpenADR via internet	built-in light level scale-back
10	nLight Air	TRUE	OpenADR via internet	built-in light level scale-back
12	nLight	TRUE	OpenADR via internet	built-in light level scale-back
13	Silvair	TRUE	OpenADR via internet	device (similar functionality to high end trim)
16	Silvair	TRUE	OpenADR via internet	device (similar functionality to high end trim)
17	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	
18	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	
19	Wive	TRUE	BACnet, Dry Contact, OpenADR via internet	
20	Wattstopper DLM - Digit	TRUE	BACnet, Dry Contact, OpenADR via internet	
22	SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system	
23	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	ation, Email
24	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	uilt-in light level scale-back, Activated manually (C
25	WaveLinX Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	ction from light level
26	WaveLinX Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	ction from light level
33	Lumos Controls	TRUE	OpenADR via internet, Third Party system, Direct platform connect	ation, Email
34	BubblyNet	TRUE	BACnet	
35	Crestron Zim™	TRUE	BACnet, Dry Contact	
36	Avi-on Lighting Control I	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	
37	Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch	
38	c-Max Network Lighting	TRUE	BACnet, OpenADR via internet	
39	Atrius® Dimming	TRUE	BACnet, OpenADR via internet	
42	Athena	TRUE	BACnet, OpenADR via internet	
45	Wave	TRUE	BACnet, Third Party system	uilt-in light level scale-back
46	Intrinsic Xone	TRUE	BACnet, Third Party system	uilt-in light level scale-back
49	LumaLinX	TRUE	BACnet, Third Party system	uilt-in light level scale-back
50	Keilton + autani	TRUE	BACnet, Third Party system	uilt-in light level scale-back
51	Keilton + autani	TRUE	BACnet, Third Party system	uilt-in light level scale-back
54	CONTROLLED	TRUE	BACnet, Third Party system	uilt-in light level scale-back
55	Domino	TRUE	BACnet, Third Party system	uilt-in light level scale-back
56	Domino	TRUE	BACnet, Third Party system	uilt-in light level scale-back
57	SLG Sync	TRUE	BACnet, Third Party system	uilt-in light level scale-back
58	Genio	TRUE	BACnet, Third Party system	uilt-in light level scale-back
59	Technilight Smart Lightir	TRUE	BACnet, Third Party system	uilt-in light level scale-back
61	Technilight Smart Lightir	TRUE	BACnet, Third Party system	uilt-in light level scale-back
62	CLIQ Connected	TRUE	BACnet, Third Party system	uilt-in light level scale-back
64	Wave	TRUE	BACnet, Third Party system	uilt-in light level scale-back
65	LiteLogic	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
66	LiteLogic	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
67	EarthConnect	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
68	NUR0Air	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
70	SkyFi Blu Pro	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
71	SkyFi Blu Pro	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
74	TEELIO	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
75	CONTROLLED	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
76	Genio	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
79	WareSense Blue	TRUE	BACnet, Third Party system	A dedicated (configurable) scene, A native/built-in light level scale-back
81	WaveLinX CAT	TRUE	Dry Contact	A native/built-in light level scale-back
82	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch	A native/built-in light level scale-back
83	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch	A native/built-in light level scale-back
84	LumiEasy	TRUE		
86	LumiEasy	TRUE		
87	Interact Pro	TRUE		
88	LiteLinQ	TRUE		
91	LiteLinQ	TRUE		
96	RENO SMART	TRUE		
97				
98				



Filter & Sort for Demand Response

System	Has DR	External signal type	OpenADR Compliant	Type of DR
F	CT	CV	CW	CX
System	Demand Respon	External signal type/method	OpenADR complian	Type of DR (Scenes or Preset)
4 Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
5 Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
6 AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
7 HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
9 nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
10 nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
12 nLight	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
13 Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
16 Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
17 SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
18 SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
19 SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A dedicated (configurable) scene
20 Wattstopper DLM - Digit	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A native/built-in light level scale-back
22 SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0b	A dedicated (configurable) scene, App notification, Email
23 Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
24 Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
25 WaveLinx Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
26 WaveLinx Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
33 Lumos Controls	TRUE	OpenADR via internet, Third Party system, Direct platform connect	2.0b	A dedicated (configurable) scene, App notification, Email
34 BubblyNet	TRUE	BACnet		A native/built-in light level scale-back
35 Crestron Zim™	TRUE	BACnet, Dry Contact		A native/built-in light level scale-back
36 Avi-on Lighting Control I	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch		A dedicated (configurable) scene
37 Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch		A native/built-in light level scale-back
38 c-Max Network Lighting	TRUE	BACnet, OpenADR via internet		A dedicated (configurable) scene
39 Atrius® Dimming	TRUE	BACnet, OpenADR via internet		
42 Athena	TRUE	BACnet, OpenADR via internet		A native/built-in light level scale-back
45 Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
46 Intrinsic Xone	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
49 LumaLinx	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
50 Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
51 Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
54 CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
55 Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
56 Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
57 SLG Sync	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
58 Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
59 Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
61 Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
62 CLIQ Connected	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
64 Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
65 LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
66 LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
67 EarthConnect	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
68 NUR0Air	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
70 SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
71 SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
74 TEELIO	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
75 CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
76 Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
79 WareSense Blue	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
81 WaveLinx CAT	TRUE	Dry Contact		A native/built-in light level scale-back
82 NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83 NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
84 LumiEasy	TRUE			
86 LumiEasy	TRUE			
87 Interact Pro	TRUE			
88 LiteLinQ	TRUE			
91 LiteLinQ	TRUE			
96 RENO SMART	TRUE			
97				
98				

Filter & Sort for Demand Response

	System	Has DR	External signal type	OpenADR Compliant	Type of DR
	F	CT	CV	CW	CX
1	System	Demand Respon	External signal type/method	OpenADR complian	Type of DR (Scenes or Preset)
4	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
5	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
6	AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
7	HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
9	nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
10	nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
12	nLight	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
13	Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
17	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
18	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
19	Wive	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A dedicated (configurable) scene
20	Wattstopper DLM - Digit	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A native/built-in light level scale-back
22	SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0b	A dedicated (configurable) scene, App notification, Email
23	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manual
24	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manual
25	WaveLinx Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
26	WaveLinx Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
33	Lumos Controls	TRUE	OpenADR via internet, Third Party system, Direct platform connect	2.0b	A dedicated (configurable) scene, App notification, Email
35	Crestron Zim™	TRUE	BACnet, Dry Contact		A native/built-in light level scale-back
36	Avi-on Lighting Control I	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch		A dedicated (configurable) scene
37	Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch		A native/built-in light level scale-back
38	c-Max Network Lighting	TRUE	BACnet, OpenADR via internet		A dedicated (configurable) scene
39	Atrius® Dimming	TRUE	BACnet, OpenADR via internet		
42	Athena	TRUE	BACnet, OpenADR via internet		A native/built-in light level scale-back
45	Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
46	IntrinsicX Xone	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
49	LumaLinx	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
50	Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
51	Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
54	CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
55	Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
56	Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
57	SLG Sync	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
58	Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
59	Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
61	Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
62	CLIQ Connected	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
64	Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
65	LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
66	LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
67	EarthConnect	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
68	NUROAir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
70	SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
71	SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
74	TEELIO	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
75	CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
76	Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
79	WareSense Blue	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
81	WaveLinx CAT	TRUE	Dry Contact		A native/built-in light level scale-back
82	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
84	LumiEasy	TRUE			
86	LumiEasy	TRUE			
87	Interact Pro	TRUE			
88	LiteLinQ	TRUE			
91	LiteLinQ	TRUE			
96	RENO SMART	TRUE			
97					
98					

Filter & Sort for Demand Response

	System	Has DR	External signal type	OpenADR Compliant	Type of DR
	F	CT	CV	CW	CX
1	System	Demand Response	External signal type/method	OpenADR compliant	Type of DR (Scenes or Preset)
4	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
5	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
6	AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
7	HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
9	nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
10	nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
12	nLight	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
13	Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
16	Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
17	SimplySNAP Smart Light	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
18	SimplySNAP Smart Light	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
19	Wive	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A dedicated (configurable) scene
20	Wattstopper DLM - Digital	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A native/built-in light level scale-back
22	SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0b	A dedicated (configurable) scene, App notification, Email
23	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
24	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
25	WaveLinx Wireless Control	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
26	WaveLinx Wireless Control	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
33	Lumos Controls	TRUE	OpenADR via internet, Third Party system, Direct platform connect	2.0b	A dedicated (configurable) scene, App notification, Email
34	BubblyNet	TRUE			A native/built-in light level scale-back
35	Crestron Zim™	TRUE	BACnet, Dry Contact		A native/built-in light level scale-back
36	Avi-on Lighting Control	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch		A dedicated (configurable) scene
37	Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch		A native/built-in light level scale-back
38	c-Max Network Lighting	TRUE	BACnet, OpenADR via internet		A dedicated (configurable) scene
39	Atrius® Dimming	TRUE	BACnet, OpenADR via internet		
42	Athena	TRUE	BACnet, OpenADR via internet		A native/built-in light level scale-back
45	Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
46	IntrinsicXone	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
49	LumaLinx	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
50	Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
51	Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
54	CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
55	Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
56	Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
57	SLG Sync	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
58	Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
59	Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
61	Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
62	CLIQ Connected	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
64	Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
65	LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
66	LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
67	EarthConnect	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
68	NUR0Air	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
70	SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
71	SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
74	TEELIO	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
75	CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
76	Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
79	WareSense Blue	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
81	WaveLinx CAT	TRUE	Dry Contact		A native/built-in light level scale-back
82	NX Distributed Intelligence	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83	NX Distributed Intelligence	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
84	LumiEasy	TRUE			
86	LumiEasy	TRUE			
87	Interact Pro	TRUE			
88	LiteLinQ	TRUE			
91	LiteLinQ	TRUE			
96	RENO SMART	TRUE			
97					
98					

Filter & Sort for Demand Response

	System	Has DR	External signal type	OpenADR Compliant	Type of DR
	F	CT	CV	CW	CX
1	System	Demand Respon	External signal type/method	OpenADR complian	Type of DR (Scenes or Preset)
4	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
5	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
6	AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
7	HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
9	nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
10	nLight Air	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
12	nLight	TRUE	OpenADR via internet	2.0a	A dedicated (configurable) scene, A native/built-in light level scale-back
13	Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
16	Silvair	TRUE	OpenADR via internet	2.0a	By changing maximum light output level per device (similar functionality to high end trim)
17	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
18	SimplySNAP Smart Ligh	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
19	Wive	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A dedicated (configurable) scene
20	Wattstopper DLM - Digit	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A native/built-in light level scale-back
22	SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0b	A dedicated (configurable) scene, App notification, Email
23	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
24	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back, Activated manually (C
25	WaveLinX Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
26	WaveLinX Wireless Contr	TRUE	BACnet, OpenADR via internet, mobile app (test)	2.0b	A native/built-in light level scale-back, % reduction from light level
34	BubblyNet	TRUE	BACnet		A native/built-in light level scale-back
35	Crestron Zim™	TRUE	BACnet, Dry Contact		A native/built-in light level scale-back
36	Avi-on Lighting Control I	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch		A dedicated (configurable) scene
37	Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch		A native/built-in light level scale-back
38	c-Max Network Lighting	TRUE	BACnet, OpenADR via internet		A dedicated (configurable) scene
39	Atrius® Dimming	TRUE	BACnet, OpenADR via internet		A native/built-in light level scale-back
42	Athena	TRUE	BACnet, OpenADR via internet		A dedicated (configurable) scene, A native/built-in light level scale-back
45	Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
46	Intrinsic Xone	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
49	LumaLinX	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
50	Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
51	Keilton + autani	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
54	CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
55	Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
56	Domino	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
57	SLG Sync	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
58	Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
59	Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
61	Technilight Smart Lightir	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
62	CLIQ Connected	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
64	Wave	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
65	LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
66	LiteLogic	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
67	EarthConnect	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
68	NUR0Air	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
70	SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
71	SkyFi Blu Pro	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
74	TEELIO	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
75	CONTROLLED	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
76	Genio	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
77	WaveSense Blue	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
81	WaveLink CXT	TRUE	Dry Contact		A native/built-in light level scale-back
82	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
84	LumiEasy	TRUE			
86	LumiEasy	TRUE			
87	Interact Pro	TRUE			
88	LiteLinQ	TRUE			
91	LiteLinQ	TRUE			
96	RENO SMART	TRUE			
97					
98					

Filter & Sort for Demand Response

	System	Has DR	External signal type	OpenADR Compliant	Type of DR
	F	CT	CV	CW	CX
1	System	Demand Respon			
4	Jarvis Link	TRUE			
5	Jarvis Link	TRUE			
6	AleoBlue	TRUE			
7	HubSense	TRUE			
9	nLight Air	TRUE			
10	nLight Air	TRUE			
12	nLight	TRUE			
13	Silvair	TRUE			
16	Silvair	TRUE			
17	SimplySNAP Smart Ligh	TRUE			
18	SimplySNAP Smart Ligh	TRUE			
19	Wive	TRUE			
20	Wattstopper DLM - Digit	TRUE			
22	SmartProControls	TRUE			
23	Lightcloud	TRUE			
24	Lightcloud	TRUE			
25	WaveLinX Wireless Contr	TRUE			
26	WaveLinX Wireless Contr	TRUE			
33	Lumos Controls	TRUE			
34	BubblyNet	TRUE			
35	Crestron Zim™	TRUE			
36	Avi-on Lighting Control I	TRUE			
37	Quantum	TRUE			
38	o-Max Network Lighting	TRUE			
39	Atrius® Dimming	TRUE			
42	Athena	TRUE			
45	Wave	TRUE			
46	Intrinsic Xone	TRUE			
49	LumaLinX	TRUE			
50	Keilton + autani	TRUE			
51	Keilton + autani	TRUE			
54	CONTROLLED	TRUE			
55	Domino	TRUE			
56	Domino	TRUE			
57	SLG Sync	TRUE			
58	Genio	TRUE			
59	Technilight Smart Lightir	TRUE			
61	Technilight Smart Lightir	TRUE			
62	CLIQ Connected	TRUE			
64	Wave	TRUE			
65	LiteLogic	TRUE			
66	LiteLogic	TRUE			
67	EarthConnect	TRUE			
68	NURDAir	TRUE			
70	SkyFi Blu Pro	TRUE			
71	SkyFi Blu Pro	TRUE			
74	TEELIO	TRUE			
75	CONTROLLED	TRUE			
76	Genio	TRUE			
79	WareSense Blue	TRUE	BACnet, Third Party system		A dedicated (configurable) scene, A native/built-in light level scale-back
81	WaveLinX CAT	TRUE	Dry Contact		A native/built-in light level scale-back
82	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83	NX Distributed Intelligen	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
84	LumiEasy	TRUE			
86	LumiEasy	TRUE			
87	Interact Pro	TRUE			
88	LiteLinQ	TRUE			
91	LiteLinQ	TRUE			
96	RENO SMART	TRUE			
97					
98					

Sort A to Z
Sort Z to A
Sort by Color
Sheet View
Clear Filter From "External signal t..."
Filter by Color
Text Filters

Search:

- (Select All)
- BACnet
- BACnet, Dry Contact
- BACnet, Dry Contact, OpenADR via internet
- BACnet, Dry Contact, OpenADR via internet, Programmed digital switch
- BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true
- BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet
- BACnet, Dry Contact, Programmed digital switch
- BACnet, OpenADR via internet
- BACnet, OpenADR via internet, mobile app (test)
- BACnet, Third Party system
- Dry Contact
- Dry Contact, Programmed digital switch
- OpenADR via internet
- OpenADR via internet, Third Party system, Direct platform connect
- (Blanks)

OK Cancel

Filter & Sort for Demand Response

	System	Has DR	External signal type	OpenADR Compliant	Type of DR
	F	CT	CV	CW	CX
1	System		External signal type/method	compliant	Type of DR (Scenes or Preset)
4	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functional
5	Jarvis Link	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functional
6	AleoBlue	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functional
7	HubSense	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0a	By changing maximum light output level per device (similar functional
17	SimplySNAP Smart	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
18	SimplySNAP Smart	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch	2.0a, 2.0b	A native/built-in light level scale-back
19	Vive	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A dedicated (configurable) scene
20	Wattstopper DLM - I	TRUE	BACnet, Dry Contact, OpenADR via internet	2.0b	A native/built-in light level scale-back
22	SmartProControls	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Third Party system, true	2.0b	A dedicated (configurable) scene, App notification, Email
23	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back
24	Lightcloud	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch, Via GUI or internet	2.0b	A dedicated (configurable) scene, A native/built-in light level scale-back
35	Crestron Zum™	TRUE	BACnet, Dry Contact		A native/built-in light level scale-back
36	Avi-on Lighting Cor	TRUE	BACnet, Dry Contact, OpenADR via internet, Programmed digital switch		A dedicated (configurable) scene
37	Quantum	TRUE	BACnet, Dry Contact, Programmed digital switch		A native/built-in light level scale-back
81	WaveLinx CAT	TRUE	Dry Contact		A native/built-in light level scale-back
82	NX Distributed Intell	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
83	NX Distributed Intell	TRUE	Dry Contact, Programmed digital switch		A native/built-in light level scale-back
97					



Case Studies

	D	F	L
1	Manufacturer	System	Case Studies
5	Acuity Brands	nLight	https://insights.acuitybrands.com/docs-case-studies/chicago-school-district-59-lights-up-its-learning-environment-with-led-luminaires
6	Acuity Brands	Atrius® Dimming	https://www.ledsmagazine.com/leds-ssl-design/networks-controls/article/16699076/target-finally-confirms-that-acuity-provides-the-iot-lighting
11	Aleo Lighting, Inc.	AleoBlue	https://www.aleolighting.com/wp-content/uploads/CS_LACountyRegistrar-Rev02-08-2023-1.pdf
12	Aleo Lighting, Inc.	SimplBlue	https://www.aleolighting.com/resources/case-studies/
16	ASD Lighting Corp	ASD NLS	https://asd-lighting.com/products/led-ufo-high-bay-with-q-base-series-uhb3/
20	BubblyNet, LLC	BubblyNet	https://bubblynet.com/case-studies
22	Casambi Technologies	Casambi	https://casambi.com/projects/
23	Casambi Technologies	Casambi	https://casambi.com/projects/
30	Current	NX Distributed Intelligence	https://www.currentlighting.com/nx-lighting-controls
31	Current	NX Distributed Intelligence	https://www.currentlighting.com/nx-lighting-controls
39	Jarvis Lighting	Jarvis Link	https://silvair.com/media/filer_public/4c/08/4c08ca25-f1dc-4f2d-8ca2-c7df92cc7a53/retrofitting_mcwong_warehouse_in_sacramento_ca.pdf
40	Jarvis Lighting	Jarvis Link	https://silvair-media.s3.amazonaws.com/media/filer_public/c8/cf/c8cfa7fb-278c-450b-89c6-6c5137ca4fc4/25_02_silvair_emc_casestudy.pdf
43	Keystone Technologies	SmartLoop	https://keystonetech.com/wp-content/uploads/2022/05/Keystone-Lights-Up-New-Warehouse-for-DAS-Case-Study.pdf
45	Linmore LED	UltraLink	https://linmoreled.com/case-study/lodi-toyota/
46	Linmore LED	UltraLink	https://linmoreled.com/case-study/rexnord-manufacturing-plant/
48	Litetrace	Keilton + autani	https://autani.com/resources/#case-studies
50	Lutron Electronics Co Inc	Athena	https://assets.lutron.com/a/documents/3686092_Juan_Soriano_Museum_case_study_English.pdf
51	Lutron Electronics Co Inc	Vive	http://www.lutron.com/en-US/Pages/CaseStudiesSearch.aspx
52	Lutron Electronics Co Inc	Quantum	http://www.lutron.com/en-US/Pages/CaseStudiesSearch.aspx
58	MaxLite Inc.	c-Max Network Lighting Controls	https://www.maxlite.com/pub/media/resources/CaseStudies/NorthwestOfficeBuilding_CaseStudy.pdf
59	mwConnect	TruBlu	https://mwconnect.us/resources/case-studies/
60	mwConnect	TruBlu	https://mwconnect.us/resources/case-studies/
66	RAB Lighting	Lightcloud	https://www.rablighting.com/lightcloud-resources/case-studies
67	RAB Lighting	Lightcloud	https://www.rablighting.com/lightcloud-resources/case-studies
73	Signify (formerly Philips Lighting)	Interact City	https://www.interact-lighting.com/en-us/customer-stories#page&#61;1&filters&#61;Possibility%2FCity%2C
77	Silvair	Silvair	https://silvair.com/blog/largest-bluetooth-mesh-lighting-control-installation-world/
78	Silvair	Silvair	https://silvair.com/blog/largest-bluetooth-mesh-lighting-control-installation-world/
84	Synapse Wireless	SimplySNAP Smart Lighting Solution	https://www.synapsewireless.com/innovation/outcomes/case-studies
85	Synapse Wireless	SimplySNAP Smart Lighting Solution	https://www.synapsewireless.com/innovation/outcomes/case-studies
88	toggled	toggled iQ	https://toggled.com/resources/case-studies/
94	Wattstopper / Legrand	Wattstopper DLM - Digital Lighting Ma	https://www.legrand.us/search/?text=case+study
96	WiSilica	Lumos Controls	https://marketing.lumoscontrols.com/hubfs/EBARA-Smart%20warehouse%20case%20study.pdf
97			



Poll: Have you encountered owner needs or requirements for functional outcomes that drive interoperability?

1. Frequently
2. Sometimes
3. Rarely
4. Not yet
5. Not sure

Interoperability

Make friends and
Play well with others



Interoperability

Make friends and
Play well with others



Cybersecurity

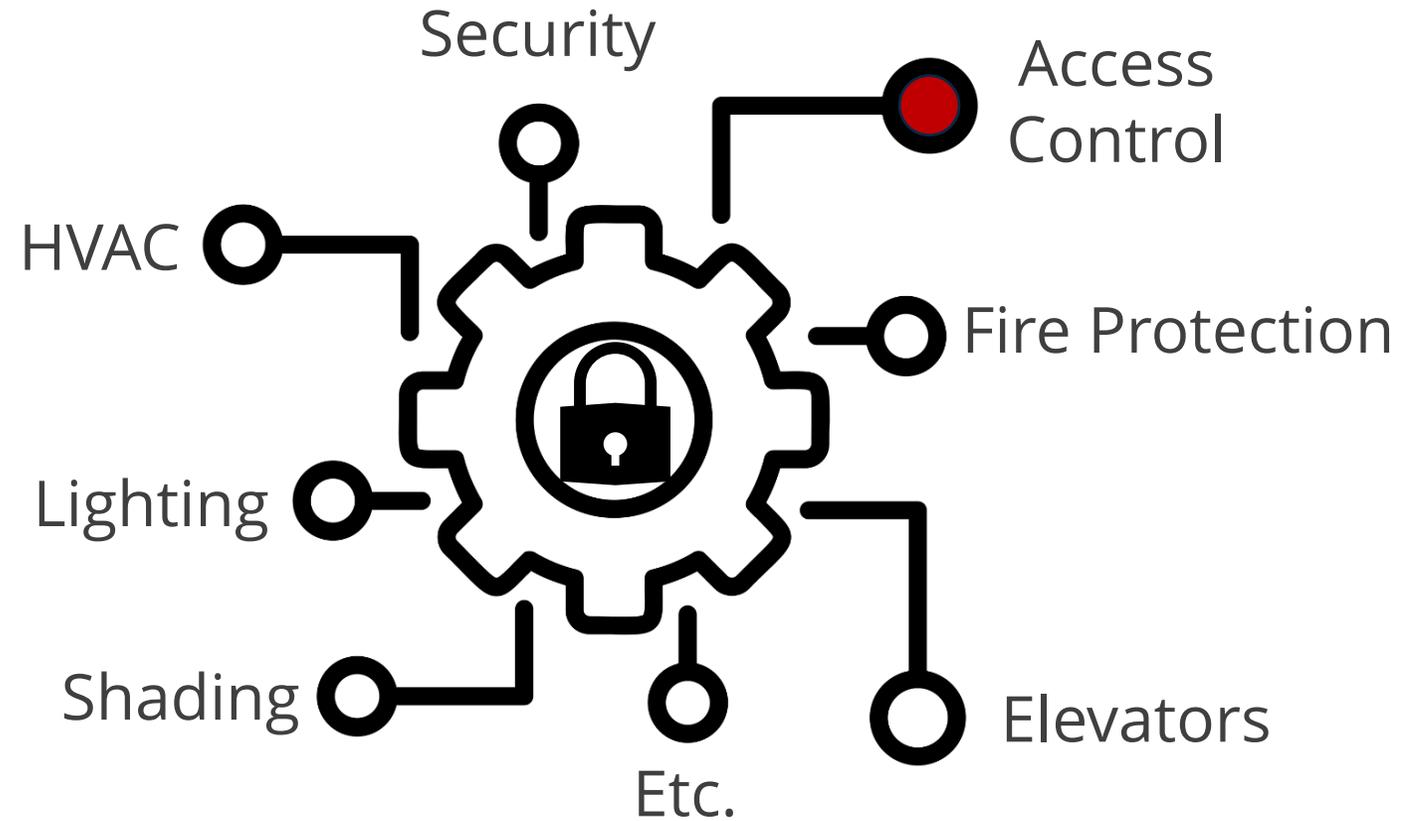
Don't talk to strangers!



Cybersecurity



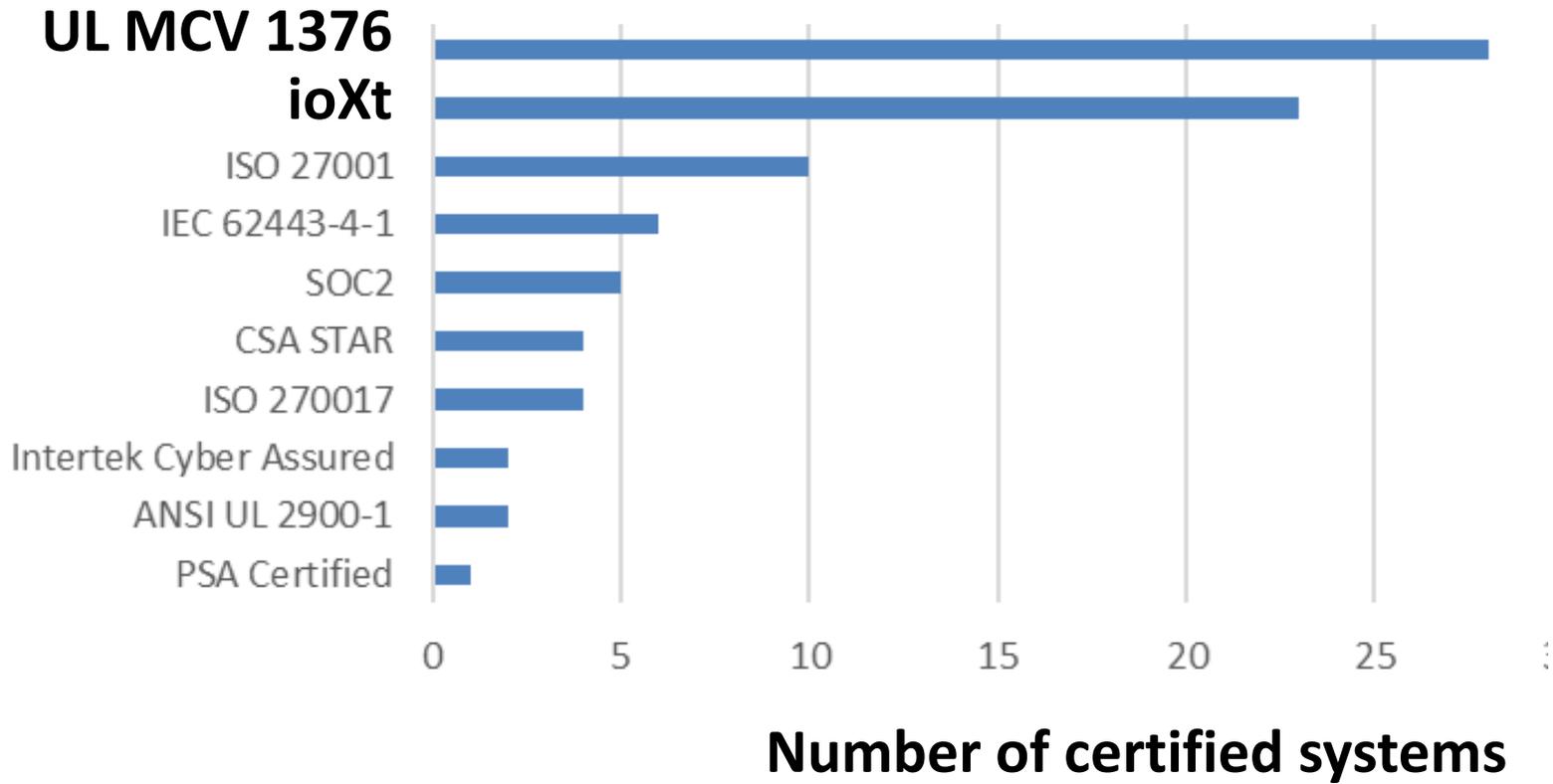
Cybersecurity the Foundation for Trust



Why does the DLC care about cybersecurity?



Certifications of Systems on the NLC QPL



Popular

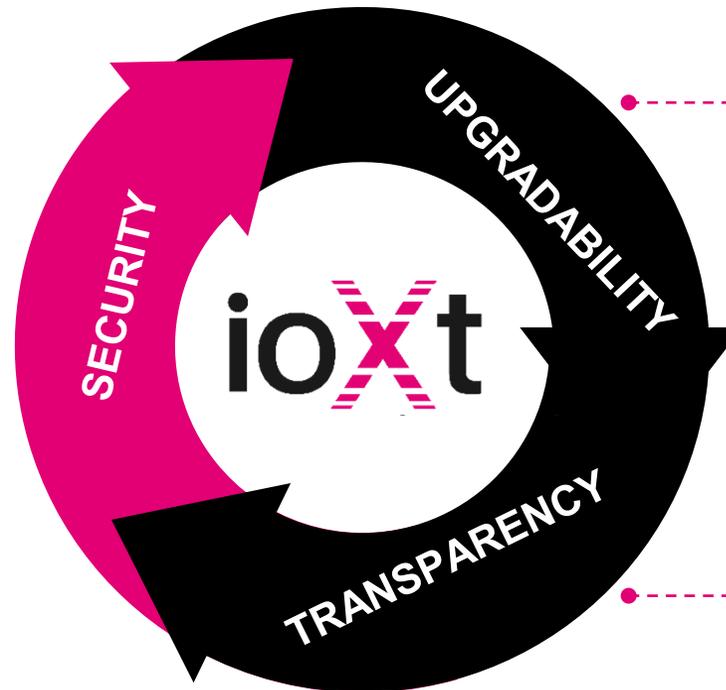


ioXt Security Pledge



SECURITY

- No Universal Passwords
- Secured Interfaces
- Proven Cryptography
- Security by Default



UPGRADABILITY

- Automatic Security Updates
- Verified Software



TRANSPARENCY

- Security Expiration Date
- Vulnerability Reporting Program

UL MCV 1376

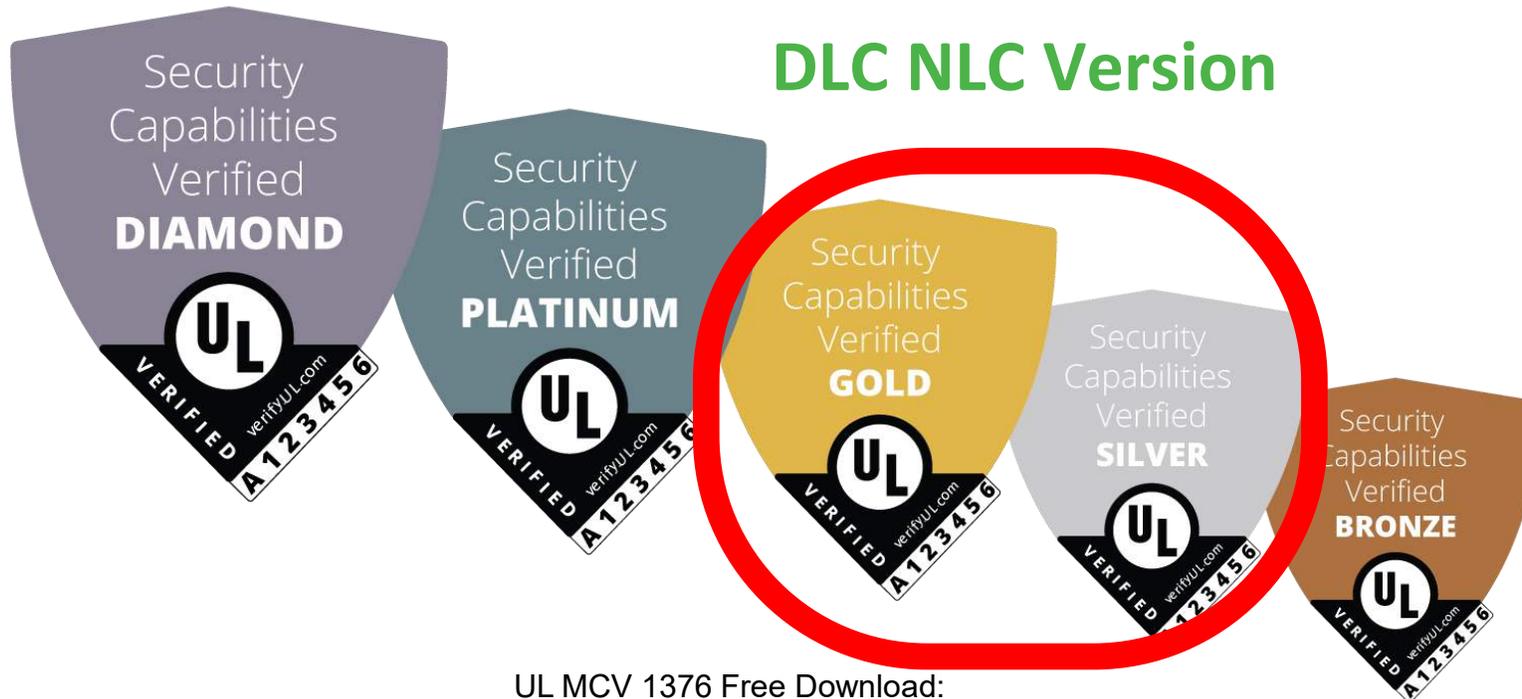


<https://ims.ul.com/loTSecurityTop20>

UL MCV 1376 Free Download:

<https://www.shopulstandards.com/ProductDetail.aspx?UniqueKey=35953>

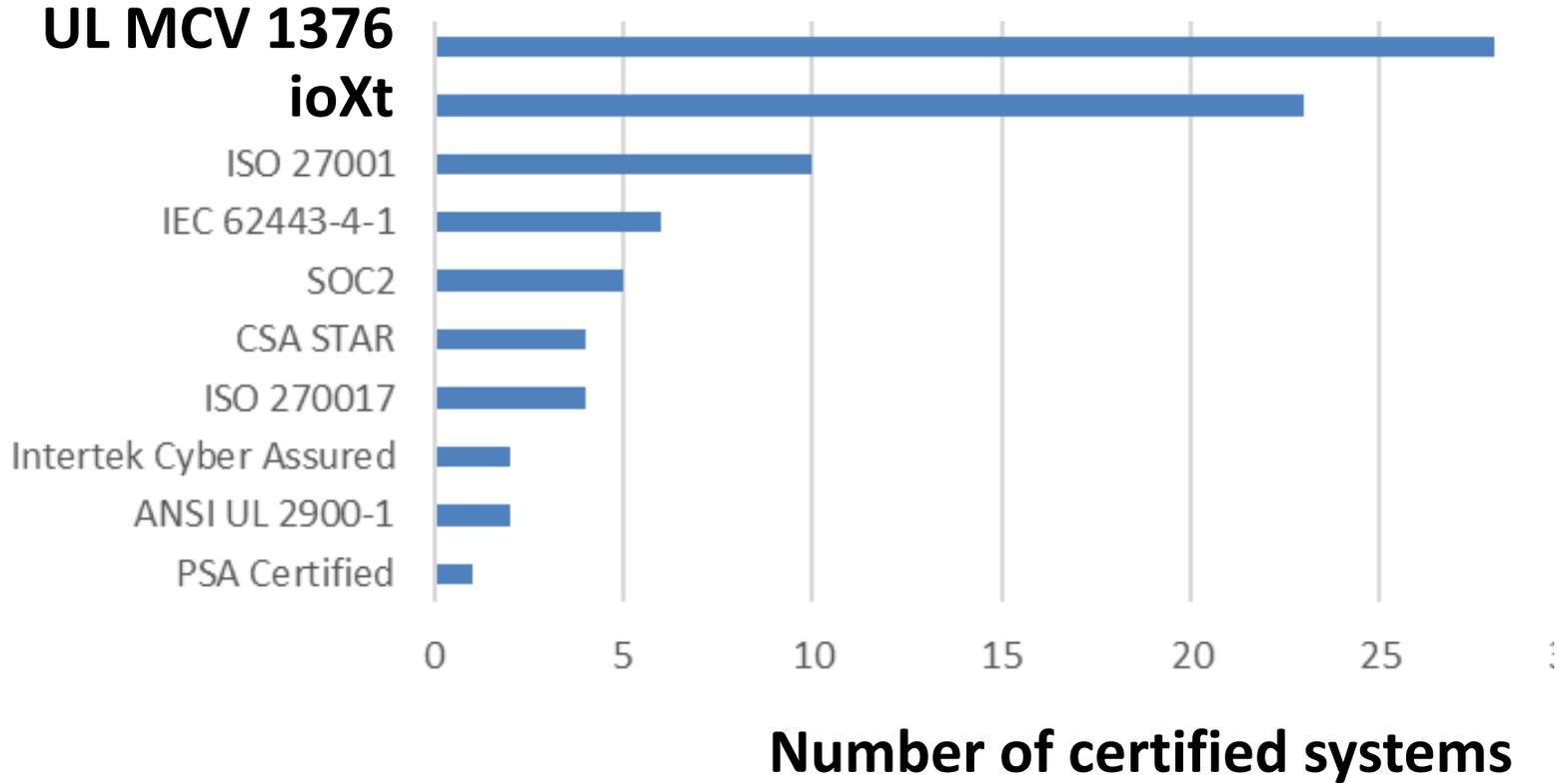
UL MCV 1376



DLC NLC Version

UL MCV 1376 Free Download:
<https://www.shopulstandards.com/ProductDetail.aspx?UniqueKey=35953>

Certifications of Systems on the NLC QPL



Less Popular



Why so many certifications?





ANSI/ISA/IEC 62443

ANSI/ISA/IEC 62443



International Society of Automation

www.ISA.org



**International
Electrotechnical
Commission**

www.IEC.ch



American National Standards Institute

www.ANSI.org

For More Details



DLC
Energy · Quality · ControllabilitySM

Cybersecurity Webinar

Levin Nock, PhD
Senior Technical Manager

2021.07.20

<https://www.designlights.org/news-events/events/webinar-whats-next-for-cybersecurity-at-the-dlc/>



DLC

DLC NETWORKED LIGHTING CONTROLS RESOURCES
NLC5 Cybersecurity Overview

Background

Cybersecurity is the practice of defending networked systems and data from malicious attacks. Cybersecurity for networked lighting controls (NLCs) is of fundamental importance to NLC market adoption. Hacking of an NLC system could easily become a headline and cause large numbers of potential users to question or delay their adoption of the technology. The lost energy savings from canceled or delayed NLC deployment has the potential to be significant.

Developing effective requirements for system security is complex. Effective security includes both the security of the equipment/hardware installed, and the security policies and processes that must be undertaken by a customer to configure and maintain a secure network. Manufacturers and specifiers should choose one or more security standards or services that are appropriate, based on a risk assessment of each situation.

The DLC is not a security standards body and does not develop security standards. Through research and outreach, the DLC has identified several cybersecurity standards and services that satisfy the cybersecurity criteria in the [NLC5 Technical Requirements](#). To help manufacturers and other users find an appropriate standard and/or service for their networked lighting control system, this resource provides additional information on each standard and service and summarizes their application. To pursue any of the services and standards listed below, contact the provider for more details.



Page 1 of 8

<https://www.designlights.org/dlc-report/nlc5-cybersecurity-overview/>



Cybersecurity – Cyber Hygiene

- Develop a strong password
- Change from defaults
- Don't share credentials with others
- Enable Logs
- Start Audits
- Set Goals
- Track progress
- Celebrate wins





CONCLUSION



You have 0 saved items

Save Search Criteria

View Saved Searches

Listed Products ▾

Manufacturer and Brand

filter this list

- ARKSMART INC (1)
- ASD Lighting Corp (1)
- Acuity Brands (5)
- Advantage Lighting Solutions (1)
- Affinity LED Lighting (1)
- Aimlite Corporation (2)

Brand

filter this list

- ALS Control (1)
- ASD NLS (1)
- Acuity Controls (3)
- Aimlite (2)
- Aleo Lighting (2)

Search by system name, manufacturer, brand, or product ID



Search Tip: For an exact search, use quotes around the search term (ex. "PVO5LXDK").
For resources on how to search and navigate the QPL, see the DLC's [video tutorials](#).

Prev 1 2 3 4 Next

Viewing 1-25 of 95 results

Add All Results to My List

**New DLC Member Resource:
TRM Research + Workpaper**

FOR UTILITIES & ENERGY EFFICIENCY PROGRAMS

- Ways to achieve more energy savings
- Standardized formulas
- Best Practices for NLC + LLLC integration

[READ SUMMARY BLOG](#)

Member-Exclusive Resource

[Hide this banner](#)

LumiEasy

Add to my list

Manufacturer: ARKSMART INC

Brand: TIOSL

Indoor Scope: Portfolio/Enterprise,Whole Building,Room or Zone,Structured Parking

Technical Requirements Version: 5.0

[OPEN IN NEW TAB](#)



Lighting Integration with Building Systems

Home / Connected Lighting and HVAC Integration

Infographic

[Toolkit](#)

[Introduction to NLC-HVAC Integration Video](#)

[AHR Expo 2025](#)

[Additional Resources](#)

CONNECTED LIGHTING AND HVAC INTEGRATION

Connected Lighting and HVAC Integration

Looking for more energy savings? Integrating HVAC with lighting controls is the next level up for smart buildings. How does it work? Take a look at our infographic below.

If you are curious about saving energy in commercial buildings, download our free toolkit about HVAC and networked lighting control integration.

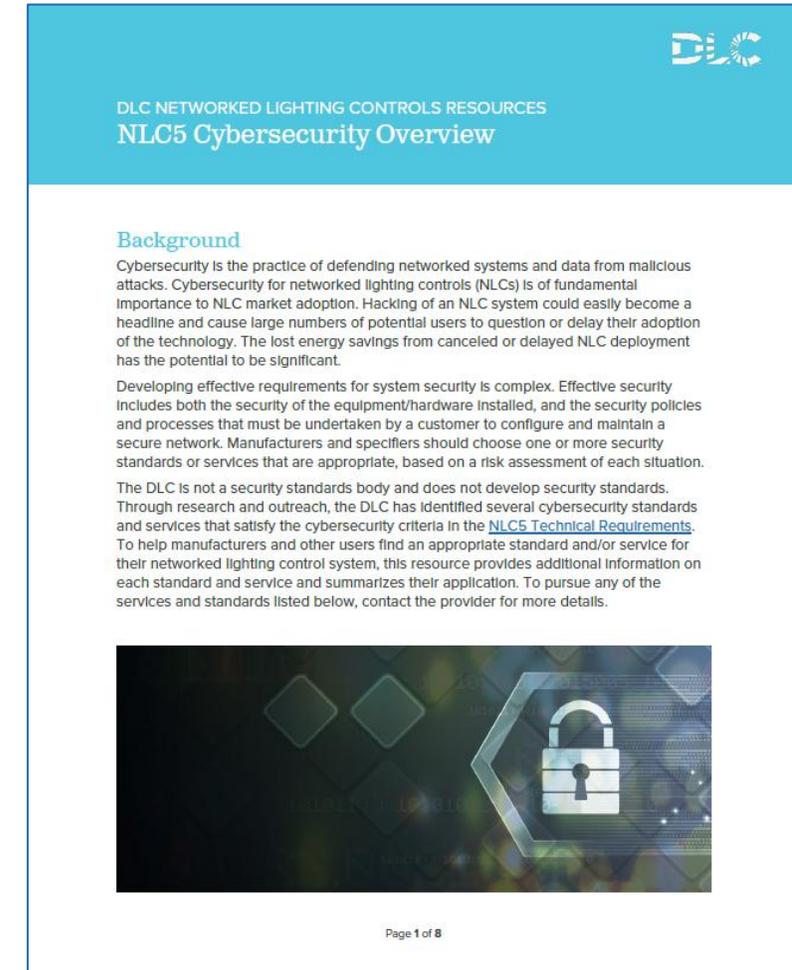
[DOWNLOAD NLC-HVAC INTEGRATION TOOLKIT](#)

Cybersecurity Resources



The graphic features a background image of a modern skyscraper at night with illuminated windows. A large, stylized white arrow shape points from the left towards the center. In the center, the DLC logo is displayed, consisting of the letters 'D', 'L', and 'C' in blue, green, and yellow respectively, with a sunburst pattern behind the 'C'. Below the logo is the tagline 'Energy · Quality · ControllabilitySM'. Underneath the tagline, the text 'Cybersecurity Webinar' is written in a dark font. Below that, the speaker's name 'Levin Nock, PhD' and title 'Senior Technical Manager' are listed, followed by the date '2021.07.20'.

<https://www.designlights.org/news-events/events/webinar-whats-next-for-cybersecurity-at-the-dlc/>



The slide has a blue header with the DLC logo in the top right corner. Below the logo, the text 'DLC NETWORKED LIGHTING CONTROLS RESOURCES' and 'NLC5 Cybersecurity Overview' is displayed. The main content area is white and contains a section titled 'Background' in blue. The text under 'Background' discusses the importance of cybersecurity for networked lighting controls (NLCs) and the potential risks of hacking. It also mentions that developing effective requirements for system security is complex and that the DLC is not a security standards body. At the bottom of the slide, there is a small image of a padlock on a screen with a city skyline in the background, and the text 'Page 1 of 8'.

<https://www.designlights.org/dlc-report/nlc5-cybersecurity-overview/>

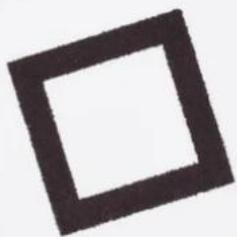


Survey



Very

Satisfied



Satisfied



Neutral

Satisfied

...

Poll: Will this webinar help you use the NLC QPL any better?

1. Yes, a lot
2. Yes, a little
3. Not sure
4. No
5. NA, I don't use it



Q&A



URLs for chat

- Slide 25 Homepage: [designlights.org](https://www.designlights.org)
- Slide 67 Toolkit: [designlights.org/lighting-hvac-integration/](https://www.designlights.org/lighting-hvac-integration/)
-
- Slide 82
- Cybersecurity webinar: <https://www.designlights.org/news-events/events/webinar-whats-next-for-cybersecurity-at-the-dlc/>
- Cybersecurity overview: <https://www.designlights.org/dlc-report/nlc5-cybersecurity-overview/>