



Igor® Nexos™ Solution Requirements Guide

This document is provided for informational purposes and is intended for Igor ecosystem partners and Original Equipment Manufacturers (OEMs) to quickly identify Igor software, hardware, network, and system requirements.

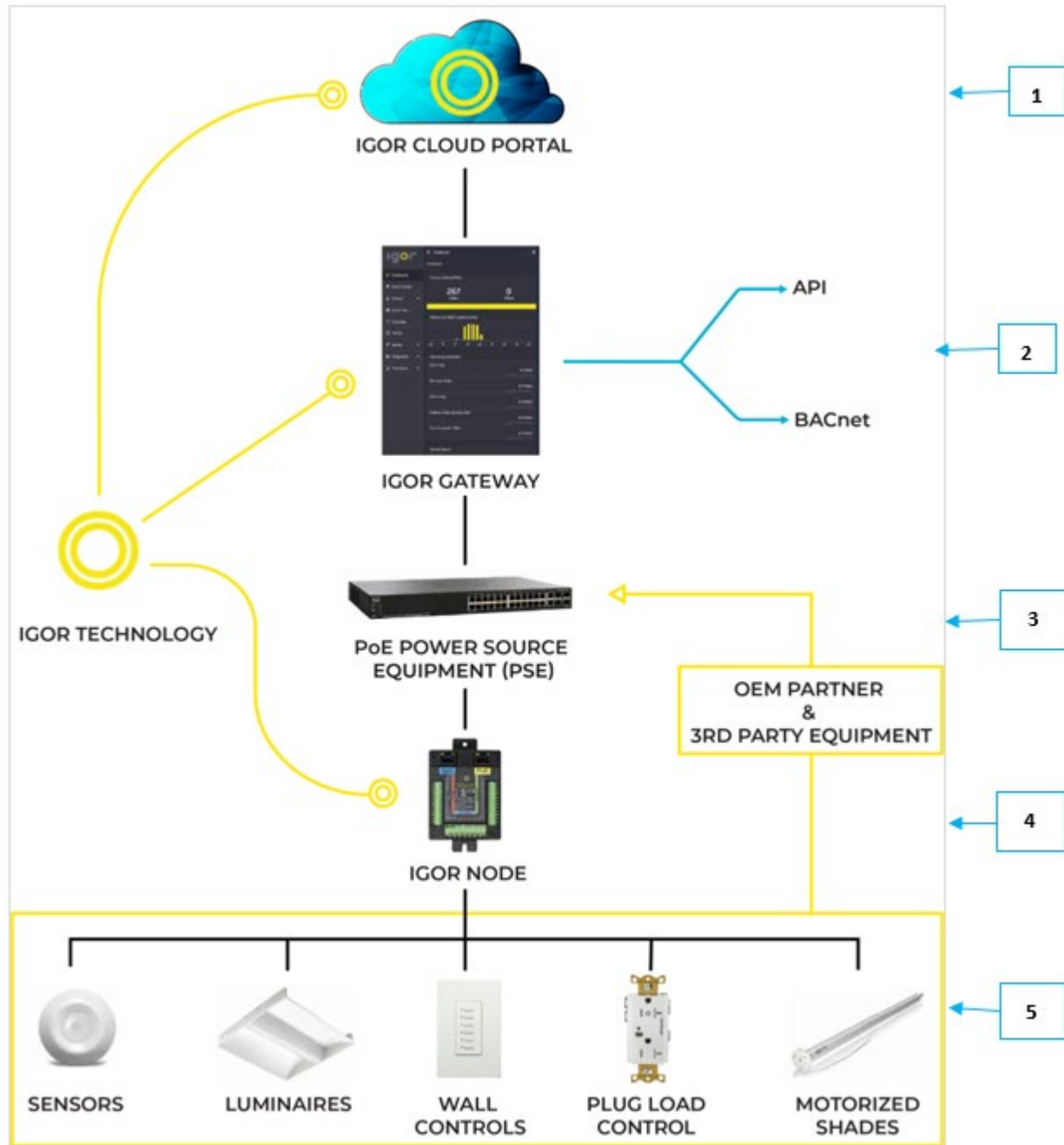
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Igor Nexos System Component Requirements

All "Igor Technology" components shown below are required for a fully functioning Nexos installation.

The Igor Gateway Software is the heart of Igor’s on-premises control system. The software communicates bi-directionally with Igor Nodes to control lighting levels for each Space and receives incoming signals from sensors and other devices to improve occupant comfort and optimize energy savings. In addition, the software sends all recorded data and system configuration status to the Igor Cloud Portal for backup and analysis.



Component descriptions >>

Component	Description
1-Igor Cloud Portal Services*	The Igor Cloud Portal provides data analytics, reporting and notification daily Gateway backups are just a click away for Igor users.
2-Igor Gateway*	The Igor® Gateway Software Appliance is a web-enabled, Ethernet-based supervisory controller that enables users to monitor and control building lighting systems from a desktop or mobile platform using the web-based Admin application Gateway software.
3-Third-party PoE Power Source Equipment (PSE)	<p>The Igor lighting solution is compatible with PoE network switches and midspans from a variety of Partners and Original Engineering Manufacturers (OEM).</p> <p>For tested and approved models, please see <i>ID-4101 Igor Approved PoE Power Sourcing</i> capabilities all under a unified platform. Sensor data, energy data, system data, and <i>Equipment List</i>.</p>
4-Igor Nodes*	<p>Igor's groundbreaking Node design offers multiple I-O configurations and is compatible with a wide array of LED light fixtures, low voltage sensors, and other devices.</p> <p>For full details on LED driver capabilities, please review the <i>ID-2150 Device and Network Node (Max, Mid, Min) Rev. 3 datasheets</i> and the <i>ID-2160 Linear Device and Network Node (Max, Mid, Min) datasheets</i>.</p> <p>For I-O Connections, see <i>ND-50-60 (Max, Mid, Min) Igor PoE Device Node diagrams</i> and <i>NP50-60 (Max, Mid, Min) Igor PoE Network Node diagrams</i>.</p>
5-Third-Party Fixtures	Igor PoE lighting Nodes can come pre-installed in LED fixtures from our manufacturing partners, or they can be used to retrofit existing line voltage LED fixtures. See <i>ID-4201 Igor Compatible Device List</i> .

* - Igor Technology components

Igor® Gateway Software System Requirements

The Igor Gateway Software is the heart of Igor's on-premises control system. The software communicates bi-directionally with Igor Nodes to control lighting levels for each space, as well as receiving incoming commands from sensors and other devices to improve occupant comfort and optimize energy savings. In addition, the software sends all recorded data and system configuration to the Igor Cloud Portal for backup and analysis.

For **Igor Gateway Software version 5.0.0 and above** to operate effectively, please follow the system requirements in the table below.

Supported Browsers: Chrome, Firefox, Safari, and Edge

Item	Requirements		
	< 500	501—5,000	5,001+
Device Count*			
Processor**	Intel i5-7-9/Xeon Families Dual core processor	Intel i5-7-9/Xeon Families Quad core processor	Consult with Igor
Memory	8 GB RAM	16 GB RAM	Consult with Igor
Hard Disk	6 GB free disk space required. 16 GB free disk space recommended. Solid-state drives (SSD) are highly recommended.		
Operating System	Windows 10 Pro 64-bit; Windows Server 2016; or Windows Server 2019		
Network Interface Card	Any standard 10/100/1000 Mbps Ethernet compatible card		
Software***	Microsoft® SQL® Server Express 2017		

*Device count can include light fixtures, wall controls, relays, actuators, sensors (light, motion, temperature, etc.), and other device types.

**...7-9/Xeon FamiliesQuad core processor

*** Effective with the 5.0.0 release, the Gateway Software Admin UI application is self-hosted; Internet Information Services (IIS) and the Microsoft .NET Core 2.1 Windows Server Hosting Bundle are no longer needed. Effective with the 5.3.0 release, .NET Framework is no longer required.

Igor Gateway Antivirus Software Exclusion Requirements

To ensure proper Igor Gateway operation, add the following antivirus software path and process exclusions.

Important: The *BACnet Service process exclusions* below are only required when a third-party BACnet/IP System is communicating with the Igor Gateway.

Software Versions 5.0.0 or Above

Antivirus Software Exclusion Requirements	
Path exclusions:	<ul style="list-style-type: none"> • C:\Igor • C:\Igor\Data • C:\Igor\Sampling
Process exclusions:	<ul style="list-style-type: none"> • C:\Program Files (x86)\Igor\Igor BACnet Service\Igor.Bacnet.Service.exe • C:\Igor\Admin\Igor.Gateway.Admin.Service.exe • C:\Igor\Cloud\Igor.Gateway.Cloud.Service.exe • C:\Igor\Coap\Igor.Gateway.Coap.Service.exe • C:\Igor\EmergencyLighting\Igor.Gateway.EmergencyLighting.Service.exe • C:\Igor\Management\Igor.Gateway.Management.Service.exe • C:\Igor\Runtime\Igor.Gateway.Runtime.Service.exe • C:\Igor\Sampling\Igor.Gateway.Sampling.Service.exe

Software Versions 1.12.1 through 4.5.3

Antivirus Software Exclusion Requirements	
Path exclusions:	<ul style="list-style-type: none"> • C:\Igor • C:\Igor\Data • C:\Igor\Sampling
Process exclusions:	<ul style="list-style-type: none"> • C:\Igor\BACnet\Igor.Bacnet.Service.exe • C:\Igor\Cloud\Igor.Cloud.Service.exe • C:\Igor\Coap\Igor.Coap.Service.exe • C:\Igor\EmergencyLighting\Igor.EmergencyLighting.Service.exe • C:\Igor\Management\Igor.Management.Service.exe • C:\Igor\Runtime\Igor.Runtime.Service.exe • C:\Igor\Sampling\Igor.Sampling.Service.exe • C:\Igor\UPnP\Igor.Upnp.Service.exe

Igor Network Communication Port Requirements

This section defines the operation and maintenance network port requirements for communication between the Igor Nodes and the Igor Gateway server.

Software Versions 5.0.0 or Above

- UPnP protocol not supported.
- Actuator sensor device type added.
- CoAP does not support legacy Dimmer and Switch device types.
- With version 5.3.0, HTTPS ports added.

INCOMING		OUTGOING	
TCP	UDP	TCP	UDP
80	69	80	69
88	1050	88	1050
443	--	443	--
8080	--	8080	--
8081	--	8081	--
--	5683	--	5683
--	50195	--	50195
--	50196	--	50196
--	50197	--	50197
--	50198	--	50198
--	50199	--	50199
--	--	--	50201
--	50202	--	50202

Firmware Versions 6.0.0 or Above

For use with software versions 5.0.0 and above

INCOMING		OUTGOING	
TCP	UDP	TCP	UDP
80	69	80	69
88	1050	88	1050
443	--	443	--
8080	--	8080	--
8081	--	8081	--
--	5683	--	5683
--	50195	--	50195
--	50196	--	50196
--	50197	--	50197
--	50198	--	50198
--	50199	--	50199
--	50201	--	--
--	--	--	50202

Legend

PORT	DESCRIPTION
69	TFTP
80	HTTP (API)
88	Configuration
443	HTTPS (API)
8080	HTTP
8081	HTTPS
1050	Firmware Updating
1900	UPnP
1901	UPnP
5683	CoAP
50195	Firmware Updating
50196	Firmware Updating
50197	Firmware Updating
50198	Firmware Updating
50199	Firmware Updating
50201	CoAP Emergency
50202	Sampling Service

Igor Network Communication Port Requirements (Cont.) >>

Software Versions 1.12.1 Through 4.5.3

With Software version 4.0.0, Wall Controls replaced the Dimmer and Switch device types.

INCOMING		OUTGOING	
TCP	UDP	TCP	UDP
80	69	80	69
88	1050	88	1050
1900	1900	443	1900
1901	1901	1900	1901
--	5683	1901	5683
--	50195	--	50195
--	50196	--	50196
--	50197	--	50197
--	50198	--	50198
--	50199	--	50199
--	--	--	50201
--	50202	--	50202

Legend

PORT	DESCRIPTION
69	TFTP
80	HTTP
88	Configuration
1050	Firmware Updating
1900	UPnP
1901	UPnP
5683	CoAP
50195	Firmware Updating
50196	Firmware Updating
50197	Firmware Updating
50198	Firmware Updating
50199	Firmware Updating
50201	CoAP Emergency
50202	Sampling Service

Firmware Versions 4.0.0 Through 5.0.2

For use with Igor Gateway software versions 3.1.0 through 4.5.3.

INCOMING		OUTGOING	
TCP	UDP	TCP	UDP
80	69	80	69
88	1050	88	1050
1901	1901	1900	1901
--	5683	1901	5683
--	50195	--	50195
--	50196	--	50196
--	50197	--	50197
--	50198	--	50198
--	50199	--	50199
--	50201	--	--

Igor BACnet Service Port Requirements

Ports required for third-party BACnet/IP Systems to communicate with the Igor Gateway are shown below for use with Gateway Software versions 1.0.0 and above.

INCOMING		OUTGOING	
TCP	UDP	TCP	UDP
--	47808	80	47808

Legend

PORT	DESCRIPTION
47808	BACnet/IP
80	HTTP

Requirements by Device/Node

Device Types:

- Actuator and Sensor (Gateway Software 5.0.0 or above) support requires Firmware 7.1.0 or above.
- Dry Contact (Gateway Software 4.3.0 or above) support requires Firmware 6.1.0 or above.
- Wall Control support (Gateway Software 4.0.0 and above) requires Firmware 5.0 or above.
- Igor Plugin files (Gateway software 5.4.0 or above, with Connectivity Package S-1-C, and Igor Framework Runtime Service version 3.04 or above required).
Example plugins: Circadian Rhythm, 4D System, Somfy Window Shade, and Xandar Heartbeat and Breathing Monitor)

Nodes:

- Device Chain Details display works best with Nodes running Igor Firmware 6.0.0 or above.
 - Downgrading to a Firmware version less than 6.0.0 after upgrading to 6.0.0 or above with Gateway Software 4.2.x or above *is NOT supported*.
- Network Node Configuration Manager (NMC) upgrade to Version 2 requires Firmware version 7.0.0 or above.

Who to Contact

Igor Support Services

For technical assistance, please contact Igor Support Services. Our Support Services phone line is staffed from 7:00 A.M. to 5:00 P.M. Central time, Monday through Friday, except for U.S. holidays. If arranged in advance, we can have an engineer available during local business hours.

Phone: 515-661-4412 | 1-877-588-2650

Email: support@igor-tech.com

Inquiries

For other inquiries, please contact us here:

Email: info@igor-tech.com

Phone: 1-877-588-2650

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