



Features

- Provides a software platform for Windows that can be used to develop or run Windows applications for designing, installing, monitoring, or controlling LON[®] networks
- Compatible with all LON and IzoT media including LON/IP-70, LON/IP-852, LON/FT, LON/PL, and LON/TP-1250
- Provides an LNS[®]-compatible open platform supporting multiple simultaneous users commissioning, monitoring, and operating devices and running multiple applications from multiple vendors
- Supports a wide variety of applications including network management applications, operator interface applications, drivers, and network diagnostic tools
- Supports IzoT, OpenLNS, and LNS plug-ins
- Supported by hundreds of third-party applications
- Supports multiple LON networks, each with up to 32,385 devices on up to 1000 channels
- Supports LON devices with up to 4096 network variables per device
- Free trial edition is available for download
- Trial edition may be freely redistributed with IzoT applications and plug-ins

Description

Create or run applications to install, commission, monitor, and control a community of devices. The IzoT Net Server provides services for Windows applications to configure devices, connections, routers, and channels, as well as subsystems containing devices and routers.

Create LON networks with up to 32,385 devices on up to 1000 channels. Each device in the network can have up to 4096 datapoints or network variables. Create peer-to-peer connections between devices or between groups of devices. Each network may contain tens of thousands of connections.

The server works with all LON devices giving you a wide variety of options for the devices to be installed in your networks. There are never any per-device fees, credits, or royalties when using the IzoT Net Server.

The server maintains all device and network configuration information in a high-performance database. Networks can be designed offline without access to the physical hardware so that networks can be designed prior to the availability of physical hardware. The database enables replacement of devices that fail, so that the configuration and connections of the failed device can be automatically copied to the replacement device. Upgrade services ensure that configuration and connections are maintained, even in cases where the replacement device has updated firmware with a modified network interface.

A database backup and restore mechanism is included so that the entire network database can be routinely backed-up, and then later be restored after a computer hardware failure. A hot-backup capability is included so that a system can continue to run while the database is backed up.

Networks can also be recovered from the physical devices in cases where the database and all backups are lost.

Network operation is supported with services to read and write datapoints, network variables, and configuration properties. Datapoint and network variable update notification events are provided so that applications can be notified when specified datapoints or network variables are updated. Datapoint, network variable, and configuration property values are automatically formatted based on resource file definitions, with application control of the formats used for each point.

Network maintenance is supported with services to test and control device state, and to override, enable, test, or disable individual blocks or functional blocks on a device. Maintenance services include services to download updated applications and Neuron firmware to Neuron hosted devices.

The server supports multiple users and applications, with each modifying, monitoring, or controlling devices in the same network at the same time. A single application can also be used with multiple networks simultaneously.

Compatible plug-in applications for configuring a wide variety of LON devices are available from hundreds of device manufacturers, or you can use the server to create your own plug-ins. Commissioning tools such as IzoT CT integrates seamlessly with these plug-ins so users can automatically start the correct plug-in from their commissioning tool.

Free Updates and Upgrades

One year of maintenance is included with every IzoT Net Server. During the first year all updates and upgrades to the server can be downloaded and install for free.

You can renew annual maintenance any time prior to the end of the first pre-paid maintenance period, and again prior to the end of each subsequent maintenance period. Annual maintenance cannot be renewed after expiration of the last pre-paid or paid maintenance period.

Once renewed, all updates and upgrades can be downloaded and installed for an additional year.

New for Server 4.1

IzoT Net Server 4.1 includes the following enhancements from Release 4.0:

- **Windows 10 Compatibility** – Support for 64-bit Windows 10 has been added.
- **LON®/IP Support** – Support for IP-70 interfaces and devices for native IP communication.
- **IzoT Series 6000 Chip Support** – Support for application image download to Echelon IzoT FT 6050 and 6010 Smart Transceivers, and the IzoT Neuron 6050 Processors.
- **Version 16 LonMark® Standard Resources** – This new resource file set includes 50 new standard profiles, including the new VDI 3813 room automation functions.
- **Echelon U60 Network Interfaces** – Support for the Echelon U60 FT and TP-1250 USB network interfaces.

Specifications

PC Requirements

Operating System

Microsoft Windows 10 (64-bit and 32-bit), Windows 8 (64-bit and 32-bit), Windows Server 2016 (64-bit), or Windows Server 2012 (64-bit)

Minimum Hardware

1 gigahertz (GHz) or faster x86-bit or x64-bit processor with SSE2 instruction set

2 GB RAM

LON Network Limits

Limits per Device

4096 NVs per device

Limits per Network

20 active clients

32,385 devices (routers and network

service devices count as two devices each)

32,385 application device types

1000 channels and 1000 routers

1 domain

12,288 bound selectors (selectors are automatically reused)

Limits per IzoT Net Server

100 network databases can be open simultaneously in independent mode for monitoring and control

50 network databases can be open simultaneously for full IzoT Net Services including management, monitoring, and control

8000 datapoints can be active with intelligent point sharing if multiple applications are monitoring the same point; this limit does not apply to permanent monitor point monitoring

65,535 permanent monitor points; monitoring a local host network variable does not consume a persistent monitor point

8000 permanent monitor sets; each monitor set may be used by any application

32,768 address table entries

1024 alias table entries

250 simultaneous outgoing transactions (when using a Layer 2 or IP interface)

250 simultaneous incoming transactions (when using a Layer 2 or IP interface)

Ordering Information

Model 38200-400

IzoT Net Server Standard Activation Key

Model 93820

IzoT Net Server Standard One-Year Maintenance Renewal