

# IzoT™ Net Server

## Product Description

IzoT Net Server is a software platform for LON® network design, installation, monitoring and control applications. 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 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 backup and restore mechanism enables the entire network database to be routinely backed-up, and later restored after a computer hardware failure. A hot-backup capability is included so 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.



## 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-20, 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 Net Server 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 Net Server applications and plug-ins

# PRODUCT DESCRIPTION

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 can integrate seamlessly with these plug-ins so users can automatically start the correct plug-in from their commissioning tool.

## Free Upgrades and Upgrades

One year of maintenance is included with purchase, allowing all updates to be downloaded and installed for free. For ongoing support, you must purchase maintenance prior to expiration of the annual period (either initial free period or subsequent renewal). Should your maintenance agreement lapse, it cannot be renewed.

# PRODUCT SPECIFICATIONS

## PC requirements

Operating system:	Microsoft Windows 10 (64-bit and 32-bit), Windows 8.1 (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 1280 x 800 screen resolution display

## 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

## New Features

- *Windows 10 and Server 2016 Compatibility* – Support for 64-bit Windows 10 and Windows Server 2016
- *LON/IP Support* – Support for IP-70 interfaces and devices for native IP communication
- *Series 6000, 5000, and 3100 Smart Transceiver and Neuron Chip Support* – Support for application image download to any Series 6000, 5000, or 3100 Smart Transceiver or Neuron Chip
- *Version 16 LonMark® Standard Resources* – This new resource file set includes 50 new standard profiles, including the new VDI 3813 room automation functions
- *U60 and U70 Network Interfaces* – Support for U60 FT, U60 TP-1250, and U70 PL-20 USB network interfaces

Model #	Product Name	Product Description
38200-400	IzoT Net Server Standard Edition	License for software download
93820	IzoT Net Server Standard Maintenance	One-year maintenance renewal

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