Welcome to the i.LON SmartServer. Your SmartServer is a high-performance controller, network manager, remote network interface, and Web server that connects LonWorks®, Modbus, and M-Bus devices to enterprise applications and the Internet. The SmartServer also provides local device monitoring and control via built-in scheduling, alarming, and datalogging applications. Options are available for IP-852 routing and custom application support. You can use the SmartServer to locally or remotely configure, monitor, and control appliances, meters, load controls, lights, security systems, pumps, valves, or virtually any electrical device—from across the room or across the globe. This guide provides a quick overview of how to install your SmartServer.

**Quick Start Guide**

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**Step 1: Install the i.LON SmartServer software**

1. Before installing, check [www.echelon.com/ilon](http://www.echelon.com/ilon) for the latest i.LON SmartServer service pack and updates. See the installation instructions included with the service pack or update for more information.
2. Insert the i.LON SmartServer DVD into your computer. If the installation program fails to start, navigate to your DVD-ROM drive and run setup.exe.
3. Install the SmartServer software. To do this, click Install Products, click Echelon i.LON SmartServer Software, and then follow the instructions in the Setup Wizard.

**Step 2: Connect the SmartServer hardware**

1. Use an Ethernet cable to connect your SmartServer to an IP network that can communicate with your computer.
2. If your computer is not on the 192.168.1 subnet, open a command prompt and type the following command:

   route add 192.168.1.0 mask 255.255.255.0 %computername%

   If you are running Windows Vista™ on your computer, you need to open the command prompt with administrator privileges. To do this, click Start, type cmd in the search box, right-click cmd.exe, and then select Run as Administrator.

   If you receive a “The parameter is incorrect” error after entering the route command, replace %computername% with the IP address of your computer.

3. Open Internet Explorer 6 or later and enter the following URL: 192.168.1.222. Your SmartServer home page appears.
4. Click the Login button.
5. If a login dialog appears, enterilon for both the User Name and the Password and then click OK. The i.LON SmartServer – Welcome Web page appears.

**Step 3: Set the SmartServer IP address**

1. Right-click SmartServer near the top of the navigation pane in the left side of the Web page, point to Setup on the shortcut menu, and then click TCP/IP.
2. The Setup – Local i.LON SmartServer Web page appears.
3. Configure the IP and DNS properties for your SmartServer.

**Step 3: Continued**

4. Optionally, you can configure IPv6 properties for your SmartServer by selecting the Advanced check box.
5. Click Submit.
6. Reboot the SmartServer. To do this, right-click SmartServer in the navigation pane, point to Setup, and then click Reboot.

**Step 4: Select a network management service**

You can manage a LonWorks network using LNS® network management services or using the SmartServer as a standalone network manager. When using LNS network management services, you can configure the SmartServer to automatically synchronize with an LNS Server (the LNS Auto network management service), or to synchronize manually under your control (the LNS Manual network management service).

- When using the LNS Auto and LNS Manual network management services, the SmartServer synchronizes with an LNS Server, and uses the LNS Server to perform all network management tasks. In these modes, the SmartServer and the devices on the attached LonWorks network can communicate in a peer-to-peer manner. You must have an LNS Server Turbo Edition (version 3.2 or newer) to use either of the LNS network management services.

- When using the Standalone network management service, the SmartServer is the network manager. The network functions as a master-slave system, where the SmartServer is the master to the slave devices. You can use standalone mode to operate a small, single-channel network that does not require LNS services, LonWorks connections, or synchronization with other network management tools. Networks running in standalone mode are limited to a maximum of 200 devices and no routers (for TP/FT-10 networks, you need to attach a physical layer repeater to the network to exceed the 64 device segment limit).

**Note:** Read Chapter 5 of the i.LON SmartServer User’s Guide before changing the network management service.
Using the LNS Auto and LNS Manual Network Management Services

1. Install the Echelon i.LON Enterprise Services on your LNS Server computer from the i.LON SmartServer DVD. To do this, click Echelon i.LON SmartServer Enterprise Services from the Install Products dialog, and then follow the instructions in the Setup Wizard. In the installer, change the default user name and password used to access the LNS Proxy Web service on your LNS Server computer.

2. Add an LNS Server to the LAN.
   a. Right-click LAN at the top of the navigation pane, point to Add Host, and then click Server (LNS, Email, Time, IP-852, WebTarget) on the shortcut menu.
   b. The Setup – Host Web page appears, and a server entry is added to the bottom of the navigation pane.
   c. Click LNS Proxy, enter the IP address or hostname of your LNS Server computer that is running LNS Turbo Server (version 3.2) or newer, and then configure the SOAP/HTTP properties of the LNS Server.
   d. Click Submit.
   e. Click the Driver option at the top of the navigation pane.

4. Click the Net network in the navigation pane. The Setup – LON Network Driver Web page appears.


   • Select LNS Auto to have the SmartServer automatically synchronize with the selected LNS network database via the LNS Proxy Web service (you can also manually initiate synchronization by pressing the Synchronize button in the LNS Network property). In this mode, the SmartServer independently initiates communication with the LNS Proxy Web service. You should select this mode as long as a firewall is not blocking the SmartServer’s access to the LNS Proxy Web service port on the LNS Server computer (port 80 by default).

   • Select LNS Manual to have the SmartServer manually synchronize with the selected LNS network database via the LNS Proxy Web service. In this mode, you can synchronize the SmartServer with the selected LNS network database by pressing the Synchronize button in the LNS Network property. This mode does not require the SmartServer to access the LNS Proxy Web service port on the LNS Server computer. You should only select this mode if a firewall is blocking the SmartServer’s access to the LNS Proxy Web service port on the LNS Server computer (port 80 by default). This is the default.

6. In the LNS Server property, select the IP address of the LNS server to be used for providing network management services.

7. Enter the User Name and Password for logging into the LNS Server via the LNS Proxy Web service and then click OK. The default user name and password is Ion, but you should have entered a different user name/password in the Echelon i.LON SmartServer Enterprise Services installer.

8. The box in the LNS Network property is highlighted red and a dialog appears prompting you to confirm the creation of a LNS network database for the default Net network.

   • To create a new LNS network database named “Net” in the iLON/db folder on your computer, click OK, and then click Submit. If you selected LNS Auto, the network in the SmartServer tree is automatically synchronized to the new LNS network database. The time required for the synchronization depends on the size and complexity of the network.

   • To select an existing LNS network database, or create a new LNS network database with a different name, click Cancel, select an existing LNS network database or enter an LNS network database name that is unique to the selected LNS Server (the box in the LNS Network property will be highlighted red), and then click Submit.

9. If your SmartServer is attached to the network, select the Use LNS Network Interface check box and then select the network interface to access the LNS network database. See Chapter 5 of the i.LON SmartServer User’s Guide for more information on manually resynchronizing the SmartServer to an LNS network database.

Using Standalone Network Management Service

1. Click the Driver option located directly above the navigation page on the left side of the SmartServer Web interface.

2. Click the Net network in the navigation pane. The Setup - LON Network Driver Web page appears.

3. In the Network Management Service property, select Standalone.

4. Click Submit. A dialog appears informing you that the SmartServer is being switched to standalone mode. It takes approximately 1 minute to switch. When the SmartServer has finished switching to standalone mode, the dialog closes and you can begin using your SmartServer.

You can create custom embedded applications and drivers for your SmartServer with Echelon i.LON SmartServer Programming Tools. A demo version of the Echelon i.LON SmartServer Programming Tools is available on the i.LON SmartServer DVD. To build custom embedded SmartServer applications and drivers, order the Echelon i.LON SmartServer Programming Tools DVD (Echelon Model 72111-409) from your Echelon sales representative.

To deploy your custom embedded applications and drivers to your SmartServer or any other SmartServer, a SmartServer Programming Activation Key must be installed on it. If a SmartServer Programming Activation Key is not pre-installed on your SmartServer, you can order one (Echelon Model 72161) from www.echelon.com/ilon/activate.

You can create a high-speed IP backbone for large LonWorks networks with IP-852 routing. To use the IP-852 routing option, an IP-852 Router Activation Key must be installed on your SmartServer. If an IP-852 Router Activation Key is not pre-installed on your SmartServer, you can order one (Echelon Model 72160) from www.echelon.com/ilon/activate.

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