

Excel LONSTATION™ Software

VER. 05.01.00

SOFTWARE RELEASE BULLETIN

- A. O.S. NUMBER:** ZL7762A1026
- B. DESCRIPTION:** LONSTATION™ Software is a Windows® based application / PC workstation used for monitoring and managing the following Light Commercial Building Solution (LCBS) controllers: W7750A,B Excel 10 Constant Volume Air Handling Unit (CVAHU), W7751B, D, F, and H Excel 10 Variable Volume Air Handling Unit (VAV), W7761 Excel 10 Remote Input/Output (RIO) device, W7753A Excel 10 Unit Ventilator (UV), W7762 A and B Excel 10 Hydronic controller, W7763C Excel 10 Chilled Ceiling controller, W7752D, E, F, G, and J Excel 10 Fan Coil Unit Controller, W7760A Excel 15A Building Manager, Excel 15C Plant Controller, S7760A Excel 15 Command Display (CD), T7300F/Q7300H Series 2000 Commercial Thermostats with Communicating Subbase, T7350 Commercial Thermostat with Communicating Subbase, Q7790A Wireless LONWORKS® Receiver with T7790C Wireless Wall Module, CXS/CXL Honeywell Variable Frequency Drive Interface, and LONMARK® (third party) devices that meet standard profiles with "XIF" files.
Supported network interfaces are: Q7770A1001 RapidLink™, Serial LonTalk Adapter (SLTA-10), PCLTA-10, PCLTA-20, and PCC-10.
- C. DISTRIBUTION MEDIA:** One CD-ROM.
- D. SOFTWARE REQUIRED:** Microsoft® Windows® 2000 Professional Edition with Service Pack (SP) 3.0, or Microsoft Windows XP Home Edition or Microsoft Windows XP Professional Edition with SP1 or SP2 and a CD-ROM drive
Microsoft Internet Explorer 6.0 with SP1
Software Protection
The software is subject to Copyright protection.
- E. HARDWARE REQUIRED:** Personal Computer (PC) with:
- 500 MHz microprocessor, or better (faster processors provide better performance).
 - Minimum 128 megabytes (MB) of RAM.
 - Minimum 100 MB of available disk space.
 - Super VGA monitor with minimum 1024 x 768 resolution.
 - Use one of the following LONTALK® Adapters for direct communication with a local site:
 - Recommended for best results:** External Q7770A1001 RapidLink with standard RS 232 9 pin male to 9 pin female cable.
 - External LONTALK® Adapter, PCLTA-10, PCLTA-20 and FT-10 (O.S. Number Q7760A2001) with standard RS232 9 pin male to 9 pin female cable.
 - Internal LONTALK® Adapter, PCLTA-10, PCLTA-20 and FT-10.
—Internal LONTALK® Adapter for laptops, PCMCIA PCC-10, FT-10 (O.S. Number Q7752B2009).
 - Use one of the following LONTALK® Adapters for communication with remote site(s) via modem(s):
 - Recommended for best results:** External RapidLink with telephone line connection. Since RapidLink has a built-in modem, there is no need of an external modem on the remote site.
 - External Modem(s): 3Com U.S. Robotics 5686D, V.90 or V.92 56K Standard compatible. LONSTATION™ 05.01.00 supports a maximum of six modems simultaneously. When using more than two modems, use a 4-port replicator with four additional external modems (Multi-Tech ISI4604-PCI - Four-Port Replicator PCI Board, www.multitech.com). Refer to section G: "SETUP INSTRUCTIONS FOR ROBUST COMMUNICATION:" on page 3 for



information on installation and configuration of a Multi-tech card.)

For best results, configure one or more modems for: Managing alarms, unattended downloads and polling, and monitoring controllers.

- Honeywell XM500-US TCP/IP modem for LAN/WAN connection instead of a telephone line. Refer to the LONSTATION™ help file under “WAN Modem Setup” for complete setup and checkout instructions.

F. INSTALLATION INSTRUCTIONS:

Before beginning the installation procedure, make sure that one of the operating systems mentioned in Section D is already installed. Set the screen resolution to 1024 X 768 and select small fonts. If you are upgrading from a previous version of LONSTATION™, then perform the following steps one and two before loading the operating system onto the same PC.

IMPORTANT

- *Ensure that the logged on user has administrative privileges on the local PC.*
 - *Before attempting to connect to a remote site, that site must be fully commissioned with LONSPEC™. If any nodes are not commissioned or if any nodes have duplicate subnet and node numbers, connection to the site will be unstable and unreliable.*
 - *Use of RapidLink requires an Excel 15A firmware upgrade to v02.04.6.1 or higher.*
1. If you are using LONSTATION™ version 4.4.0 or 3.2.0, first backup the site files by copying “**Osmsitemgmt.mdb**” (located in the LonStation/Database directory) to a temporary directory on a transient media (e.g. ZIP disc or a server) before starting the LONSTATION™ 05.01.00 installation.
 2. Take a backup of the existing custom graphic files, if any using the Back_It Tool. Ensure that all the graphics have been backed up through LONSTATION™.

NOTES:

- WinZip tool might be required to take a compressed backup of the custom graphic files. Buy and install a licensed copy of WinZip before the Back_It Tool program is executed.
 - Be sure that the logged-on user has Microsoft® Windows® 2000 or XP administrative privileges on the local machine.
3. Go to ‘Start’ > ‘Settings’ > ‘Control Panel’ and select the ‘Add/Remove Programs’ icon. The Add/Remove Programs window is displayed.
 4. Select ‘LonStation’ from the list and click ‘Change/Remove’ to uninstall the older version of LONSTATION™. (**Ensure that the directory where LONSTATION™ was originally installed is deleted and the new operating system as mentioned in Section E is installed**).
 5. Restart the PC. Turn off or reset any virus checking software and exit any Windows® program that is active.
 6. Insert the LONSTATION™ CD into the CD-ROM drive. Setup launches automatically.
 - a. If setup fails to launch automatically, select ‘Start’>‘Run’. The Run dialog box is displayed.
 - b. Type d:/setup at the prompt (d: is the letter of your CD-ROM drive). The drive letter on your CD-ROM drive may be different. Click ‘OK’.
 Setup begins by displaying a message that it is preparing an installation wizard followed by the Welcome screen, which displays a reminder to exit all Windows® programs and to turn off any anti-virus software.
 7. Enter the registration key on the screen that is displayed. (The key is available on the registration card that was shipped with the product. The key may be required for Honeywell personnel to perform service on the installed software.)

NOTE: The key can also be found in the “Help About LonStation” screen of the LONSTATION™ software.

8. Select the directory to install LONSTATION™. Click ‘Next>’ to begin the installation. Setup installs the application at the selected location and adds the LONSTATION™ icon to the desktop.
9. Restart the PC after installing LONSTATION™ for successful operation.
10. The setup program copies a program named “simplewiredownload.exe” into the folder where LONSTATION™ is installed. Run this program to install the SimpleWire SDK that is required for using the “SMS notification of Alarms” feature in LONSTATION™.

NOTE: Refer to LONSTATION™ Help for setting up “Message Notifications” for alarms.

11. When you open LONSTATION™, it detects and sets the modem(s)/Local RapidLinks/Local SLTA(s). (If you want to plug-in additional devices on the COM ports or reset power for the modems on the PC side, you need to restart LONSTATION™.)

12. Launch LONSTATION™.
13. Log on with the user ID as 'Admin ID' and password as 'password'.
14. Go to the 'Services' tab and select the Site icon. The "Site" window is displayed.
15. Select the 'Import Site' icon from the toolbar. The "Open File" dialog box is displayed.
16. Navigate to the directory where the site management file (**Osmsitemgmt.mdb**) was copied (refer to step 1).
17. Select the **Osmsitemgmt.mdb** file and click 'Open'. The "Import Site" dialog box lists all the available sites from the **Osmsitemgmt.mdb** file.
18. Select the site that you want to import into LONSTATION™ 05.01.00.

NOTE: LONSTATION™ 05.01.00 imports only site files from 2.1.0 or above.

Creating LONSTATION™ Device list(s) from LONSPEC™ File(s)

1. Go to 'Utilities' > 'Import LONSPEC™ Projects'. The 'Import of LONSPEC™ Projects' dialog box is displayed with the current directory as the directory where LONSTATION™ is installed. You can specify the directory where the LONSPEC™ project files exist and also the log file that maintains the error messages (by default it will be "ImportLonSpecproject.txt").

The available LONSPEC™ projects are displayed in the "Available LONSPEC™ Projects" list. You can select one or more projects and move them to the list of "Selected LonSpec Projects", and click 'OK'.

NOTE: You can import only files that are created with LONSPEC™ 4.3.0 or above. You need to first restore the files created with older versions of LONSPEC™ (LONSPEC™ 3.2.0 or below) into LONSPEC™ 4.3.0. This will automatically upgrade these files to LONSPEC™ 05.01.00 version. Later, you can import these files to LONSTATION™ 05.01.00.

2. At the end of the import process, LONSTATION™ displays a message: "Batch site creation completed. Do you wish to view the log file?"
3. Select 'Yes' and check the batch creation log file for any errors that are logged.
4. Once the batch creation is completed, connect to each and every site and perform an update operation since the site creation was offline. This process is much faster than discovering devices online.

If the LONSPEC™ project has only one network, the project name will be the site name in LONSTATION™. If there are many networks, each network name will be the respective site name in LONSTATION™.

Refer to LONSTATION™ help file under "WAN Modem Setup" for complete setup and checkout instructions for using a LAN/WAN instead of a telephone line for communicating with LONSTATION™ sites. A detailed setup procedure is given along with screen shots for both the PC WAN modem and the site WAN modem(s).

G. SETUP INSTRUCTIONS FOR ROBUST COMMUNICATION:

If a local SLTA-10 is connected to the PC that has LONSTATION™, set DIP-switch 5 to the up position and all others to the down position.
At a remote site that uses telephone lines or a LAN/WAN for connection, use the following procedure to establish a robust communication link between the remote modem and SLTA-10:

Procedure for programming the RapidLink at a remote site with LONSPEC™ 05.01.00:

1. Connect the RapidLink to the PC's serial port.
2. Open the project created in LONSPEC™ 05.01.00 that has RapidLink configured.
3. Select 'Connection Type' as 'Direct' and 'Network Interface' as 'RapidLink'.
LONSPEC™ communicates at a baud rate of 115200 bps with a local RapidLink device.
4. Connect to the network.
5. Right click the RapidLink™ device and select 'Commission RapidLink'. LONSPEC™ will inquire whether RapidLink™ is directly connected to the PC.
6. Click 'Yes' and wait for the success/failure indication in the Status window. If the commission process fails, check the cables and power settings, make the necessary corrections, and repeat steps 1 through 6.

NOTE: If RapidLink is already installed at the remote site, you might have to perform steps 4,5, and 6 remotely. This is not a robust method and therefore is not recommended. Instead, connect to the remote site using a modem and when prompted if the RapidLink is directly connected, click 'Yes'.

Procedure for programming the SLTA-10 at a remote site with LONSPEC™ 05.01.00:

1. Set DIP-switch 5 to the up position and all others to the down position on the SLTA-10.
2. Connect the SLTA-10 to the PC's serial port.
3. Open the project and the site created in LONSPEC™ that have the connected SLTA-10.
4. Go to 'File' > 'Communication Settings'. On the window that appears, select the COM port to which the SLTA-10 is connected, baud rate as 38400 and 'Connection Type' as 'Direct'.
5. Right click on the site and connect to the network (or go to 'Network' > 'Connect').
6. Right click on the SLTA and select 'Commission SLTA'.
7. Select SLTA from the list of devices and click 'Add' to move it to the selected list.
8. Click 'Start'. A message is displayed prompting you to confirm if SLTA is directly connected to the PC. Click 'Yes' to confirm the same and wait for the success/failure indication in the Status window. If the commission process fails, check the cables and DIP-switch settings, make the necessary corrections, and repeat steps 1 through 6.
9. Set DIP-switches 2, 6 and 8 to the up and all others to the down position on the SLTA-10. This will set the SLTA-10 for remote host (2 Up) at 38.4K baud (6 and 8 Up).

NOTE: If SLTA is already installed at the remote site, you might have to perform steps 5 and 6 remotely. This is not a robust method and therefore is not recommended. Instead, connect to the remote site using a modem and when prompted if the SLTA is directly connected, click 'Yes'.

IMPORTANT

After programming the SLTA-10, do not change DIP-switch 4 and cycle the power. Otherwise, steps 1 through 6 above must be re-executed.

10. At the remote site, do the following:
 - a. Connect the modem to the SLTA-10 with the special modem cable. (Honeywell part number 32002517).
 - b. Set DIP-switches 3,4 and 8 to the down and all others to the up position on the US Robotics V.90, 56K baud External modem.
 - c. Verify that the DIP-switch settings on the SLTA-10 are set according to step 9.
 - d. Cycle the power, first to the modem and then to the SLTA-10 (This sequence loads a string from the SLTA-10 into the modem for proper communication).

Procedure for setting up a PCC-10 card in the PC where LONSTATION™ is installed:

If LONSTATION™ is located on site and you have to use a PCC-10, follow these steps to set up the PCC10-card.

Install the PCC-10 software before inserting a PCC-10 card into a PC card (PCMCIA) slot failing which the card cannot be used until the software is removed and reinstalled.

Ensure that there is a Windows® Personal Computer Memory Card International Association (PCMCIA) compliant driver installed on the target PC.

1. Close all open programs.
2. Place the PCC-10 installation software for Windows® 2000 installation diskette in the PC floppy drive or the CD in the CDROM drive.
3. Run the setup.exe program located on the disk.
4. Select a directory for the software to be installed. The default directory is c:\lonworks.

NOTE: You need to specify the PCC-10 image path during PCC-10 configuration if you choose a path other than the default c:\lonworks.

5. Remove the PCC-10 installation disk from the disk drive.
6. Re-Start the computer.
7. Go to 'Start' > 'Settings' > 'Control Panel' and click on the 'LonWorks Plug 'n' Play' icon.
8. Select 'Lon1' from the list displayed under 'Device selected' and click 'Diagnostics'.
9. Click 'Test'. If the result shows zero CRC errors, then it indicates that the device is in proper condition.

Multi Tech Card Installation and Configuration:

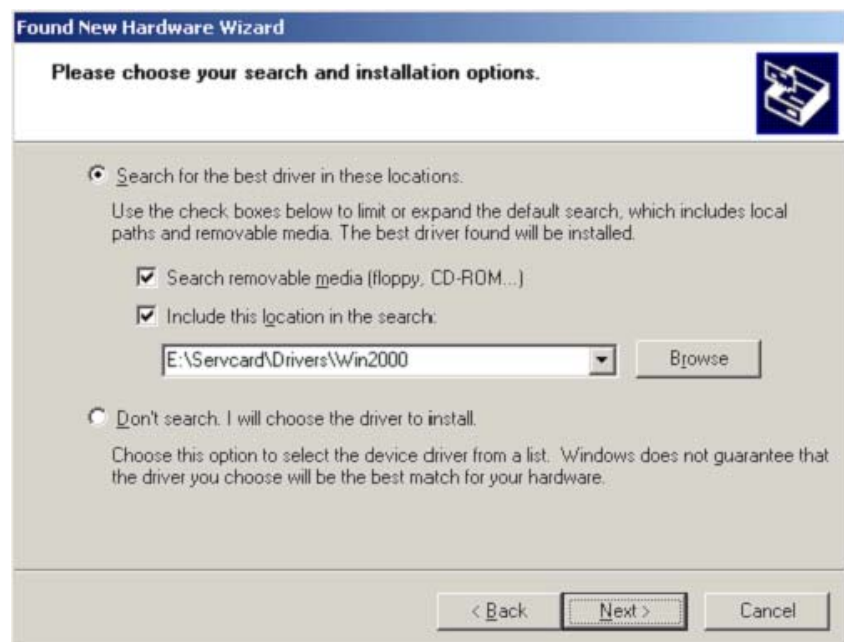
If a Multi-Tech Card is used in the PC to expand the number of ports available for communication, follow these steps to set-up and test the card before launching LONSTATION™.

Multi Tech Card Installation and Configuration on Windows XP Home:**Hardware Installation:**

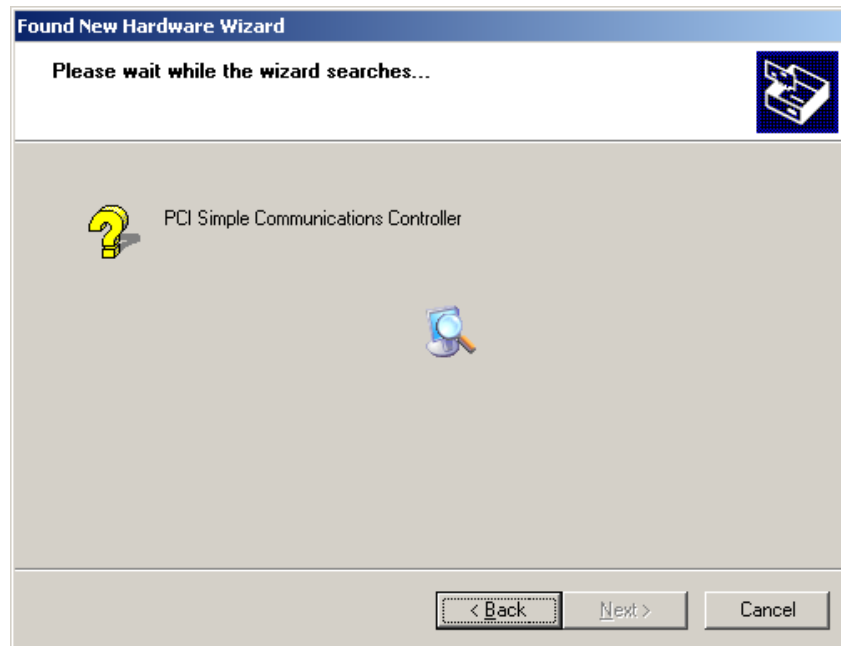
1. Power off the PC and open the PC cover.
2. Place the Multi-Tech card in the PCI slot.
3. Close the PC and connect the Multi-Tech port expander cable to the card.
4. Connect the Modems to Multi-Tech cable.
5. Power on the PC and proceed with Multi-Tech card driver installation.

Driver Installation:

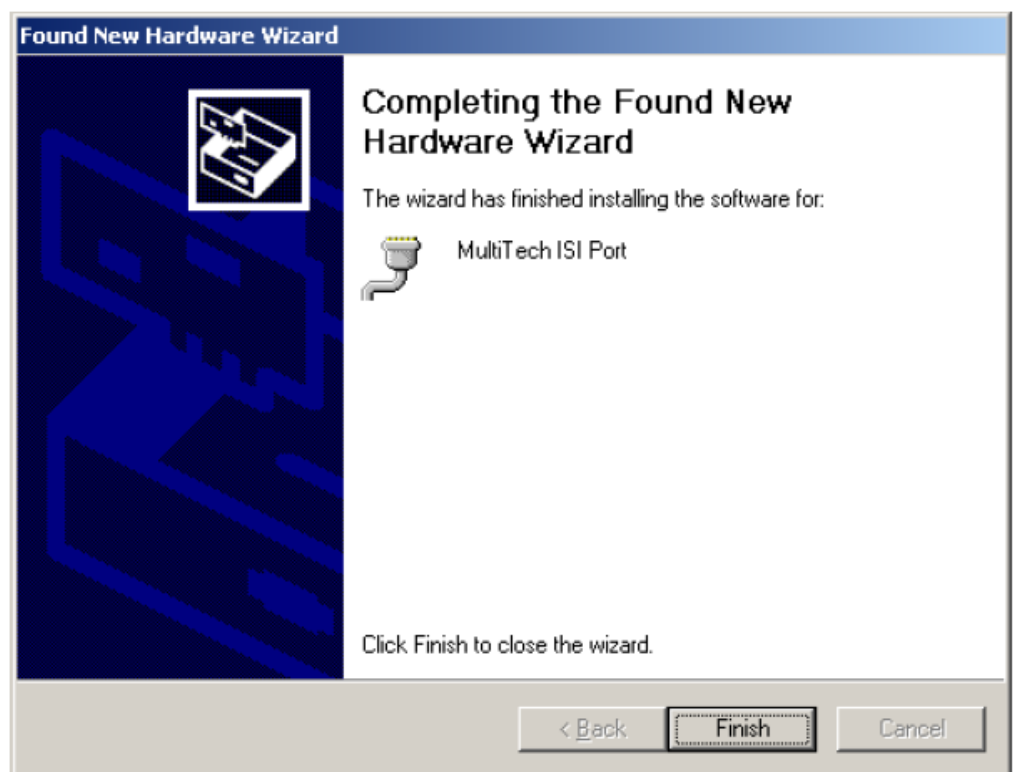
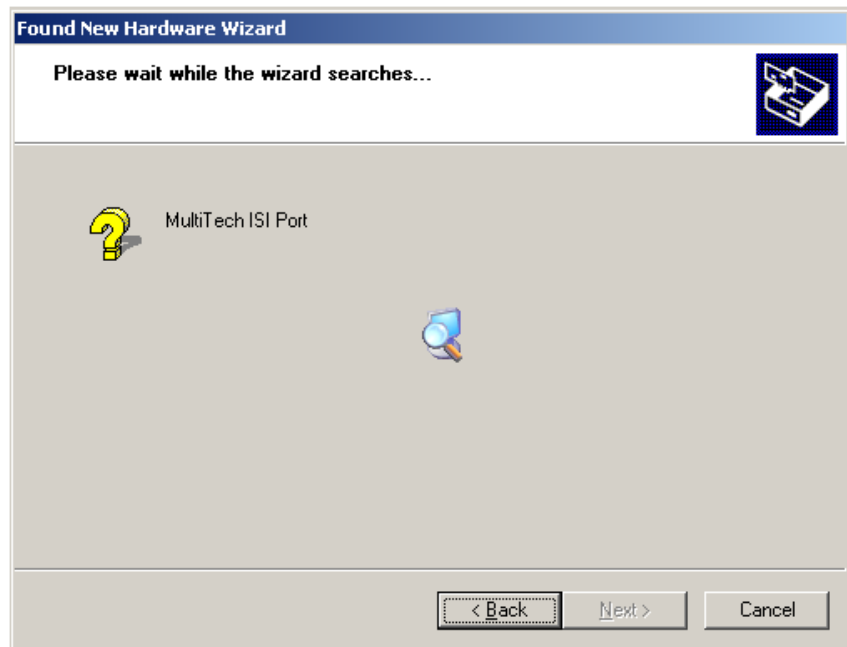
1. After powering on the PC, Windows® automatically launches the Welcome to the Found New Hardware Wizard screen.
2. Select the "Install from a list or Specific location (Advanced)" Option and click 'Next'.



3. Enter the path where the driver files are located (i.e., the file directory location, which is usually on the CD-ROM. For example E:\Servcard\Drivers\Win2000). Click 'OK' for the program to search for the files.



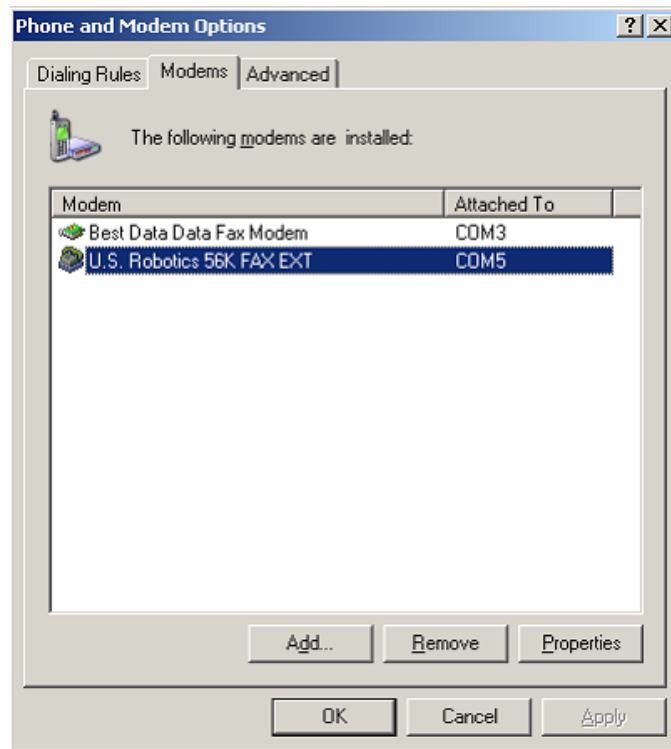
4. Click 'Finish' for setup to complete the software installation for Multi-Tech ISI4608-PCI 8 Port Serial Card and launch the Welcome to the Found New Hardware Wizard screen.
5. Select 'Install the software automatically (Recommended).' and click 'Next'.



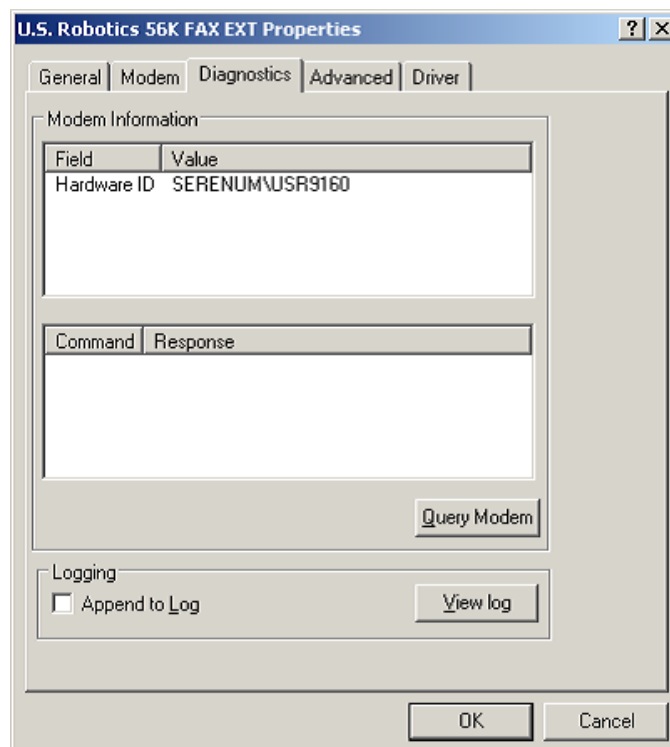
6. Click 'Finish' for setup to complete the driver installation. The expanded ports, along with modems that are connected to the ports, are now available for other applications.

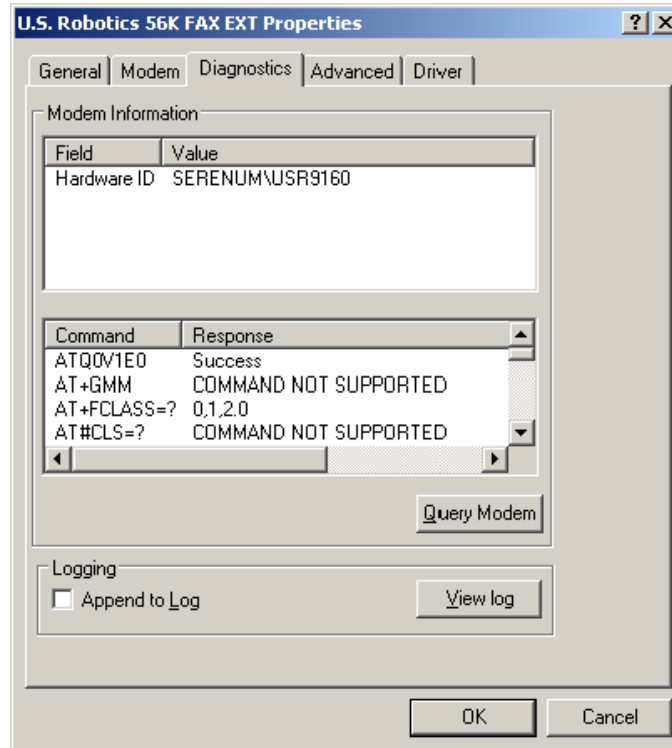
Modem Diagnostic:

7. Go to 'Start' > 'Settings' > 'Control Panel' and select the 'Phone and Modem Options' icon. The Phone and Modem Options window is displayed. Select the 'Modems' tab.

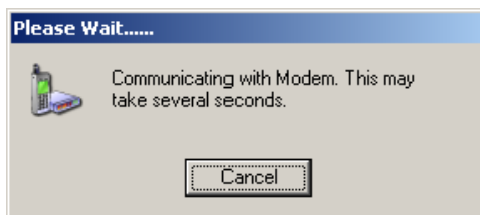


8. The preceding screen lists all the modems installed in the computer, including the modems that are connected to the Multi-Tech board.
9. Select a modem and click 'Properties'.







10. Click the 'Diagnostics' tab and then 'Query Modem'.



11. Windows reads and displays the modem settings. To verify the Modem settings, click 'OK'. Repeat the same procedure to verify all the other modems in the list.
12. Launch LONSTATION™ and verify whether LONSTATION™ detects all modems connected through the Multi-Tech board, by clicking 'Configure' > 'COM Port Assignments' to view the COM port details in the COM Port Assignment window.

	Port No.	Device	Reserved	Monitor	Receive alarms	TOD Schedule Download	Auto polling
1	COM1	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	COM10	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	COM2	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	COM3		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	COM4	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	COM5		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	COM6	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	COM7	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	COM8	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	COM9	NO DEVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel Help

H. HARDWARE COMPATIBILITY:

LONSTATION™ 05.00.03 currently allows one to monitor and manage the following:

W7760A	Excel 15A Building Manager
W7760C	Excel 15C Plant Controller
W7760D	Excel 15D RapidZone™ Controller (a RapidZone™ project can be restored into LONSPEC™ and associated in LONSTATION™, however the user will not be able to re-commission the W7760D with LONSPEC™. Only RapidZone™ can recognize the W7760D.
W7750A,B,C	Excel 10 Constant Volume, single zone, Air Handling Unit (CVAHU) controller.
W7751B,D,F,H,J	Excel 10 VAV II
W7753A	Excel 10 Unit Ventilator (UV) air terminal units.
W7761A	Excel 10 Remote I/O (RIO) device.
T7300F/Q7300H	Series 2000 commercial thermostats with communicating sub-bases.
S7760A	Command Display version 1 and Command Display version 2
Q7790A	Wireless LONWORKS® Receiver
CXS/CXL	Honeywell Variable Frequency Drive
LONMARK® Devices	LONMARK® (third party) devices that meet standard profiles, can be monitored/ manipulated by using the "XIF" to access device SNVTs.
W7762 A, B	XL10 Hydronic Controller
W7763C	XL10 Chilled Ceiling Controller
W7752D,E,F,G,J	XL10 FCU Controller
Q7770A	RapidLink Dialup Network Adapter external network interface with built in modem for remote communication and a RS232 connection for serial communication.
T7350CS	Communicating sub-base for T7350
NX VFD	Vacon NX Variable Frequency Drive (NX VFD)

I. SOFTWARE COMPATIBILITY:

Use LONSTATION™ to manage the sites that are engineered with LONSPEC™ or RapidZone™ but ensure that these site files are upgraded to LONSPEC™ 05.01.00 version first before importing them into LONSTATION™. LONSPEC™. Refer to section O. (MIGRATION PATH FROM LCBS 3X) for steps to be followed.

J. APPLICABLE LITERATURE:

74-2865-2	LONWORKS® Bus Wiring Guidelines
95-7565-3	Excel 15A Building Manager Installation Instructions
74-2967-2	Excel 15A W7760A Building Manger Specification Data
74-2969-1	Excel 15A W7760A Building Manger System Engineering Manual
95-7668-3	Excel 15B Installation Instructions
74-3471-1	Excel 15B User's Guide
95-7611-1	Excel 15C W7760C Installation Instructions
74-3079	Excel 15C W7760C System Engineering Manual
74-3080-2	Excel 15C W7760C Plant Controller Specification Data
95-7521-4	Excel 10 W7750A,B Constant Volume AHU Controller Installation Instructions
74-2958-1	Excel 10 W7750A B Constant Volume AHU Controller System Engineering Manual
95-7504	Excel 10 W7751B, D, F VAVII Installation Instructions
95-7553	Excel 10 W7751H Smart VAVII Installation Instructions
95-7663-1	Excel 10 W7751J Smart VAVII Installation Instructions
74-2949-1	Excel 10 W7751B, D, F, H VAVII System Engineering Manual
95-7520-1	Excel 10 W7753 Unit Ventilator Controller Installation Instructions
74-2964-1	Excel 10 W7753 Unit Ventilator Controller System Engineering Manual
95-7539	Excel 10 W7761A Remote Input / Output Device Installation Instructions
74-2699	Excel 10 W7761A Remote Input / Output Device System Engineering Manual
63-2554-4	CXS/CXL Honeywell Variable Frequency Drive User/ Application Guide
63-1285-1	CXS/CXL Honeywell Variable Frequency Drive Specification Data
74-2989	W7763C Chilled Ceiling Controllers Specification Data
74-2934	W7762 A,B Hydronic Controllers Specification Data
74-2959-2	W7752D,E,F,G Fan Coil unit Controllers
74-3425	Wireless LONWORKS® Receiver Specification Data
95-7635	Wireless LONWORKS® Receiver Installation Instructions
62-0155-3	T7300F/Q7300H Series 2000 Commercial Thermostats and Communicating Sub-bases Installation Instructions
63-4365	T7300F/Q7300H Series 2000 Commercial Thermostats and Communicating Sub-bases System Engineering Manual
62-0195	T7350 Installation instructions Manual
63-1299	T7350 Specification Datasheet
63-2604	T7350 Owner's Manual
95-7561-1	Command Display Installation Instructions
74-2976-2	Excel LONSPEC™ Specification Data
74-3069-2	Excel LONSTATION™ Specification Data
95-7511-3	Q7760A SLTA-10 Serial LONTALK® Adapter Installation Instructions
74-2954-2	Q7760A SLTA-10 Serial LONTALK® Adapter Specification Data
95-7555-1	Q7740A, B FTT Repeater Installation Instructions
74-2858-1	Q7740A, B FTT Repeater Specification Data
74-3468-1	XM500-US TCP/IP Modem for LAN/WAN Connection
TAC Tip C02-004	Technical Assistance Center Tip for Restoring files into later versions of LONSPEC™
95-7700-1	Q7770A1001 RapidLink Dialup Network Adapter Product Data
74-3981	Q7770A1001 RapidLink Dialup Network Adapter Specification Data Sheet

NOTE: For more information on NX VFD, refer to the VACON's Website - www.vacon.com. All applicable Literature has been included on the LONSTATION™ 05.01.00 CD-ROM. Refer to a directory labeled "Literature" where the literature will be listed under the appropriate device name (i.e. W7760A). Adobe Acrobat Reader is required to view any of the literature and has also been included on the LONSTATION™ 04.05.09 CD-ROM.

K. APPLICATION NOTES:

1. A LONSTATION™ site is a specific LonWorks® network that has been identified with a site name and site ID. The site ID is selected during the configuration process and fixed at the time of commissioning. The site name(s) are user configured.
2. Since LONSTATION™ operations are performed when connected with sites, those sites must be created in LONSTATION™ and a specific site selected before a Device List can be generated. Those sites can either be local (LONSTATION™ on the same network) or remote (LONSTATION™ connected to the network through a modem). Use the “Import LONSPEC™ projects” feature in LONSTATION™ to greatly speed up this process.
3. LONSTATION™ is slower in remote connect mode than in direct connect mode as it depends on the communication speed over the phone lines.
4. It is strongly recommended that you associate every site's LONSPEC™ file in LONSTATION™ during the site creation operation for the following reasons:
 - Site creation using the LONSPEC™ file greatly improves the performance of the device list operation.
 - This is the only way user customized Exception names as configured in LONSPEC™ will appear in LONSTATION™. Otherwise, only default Exception names will appear to the user.
 - This is the only way you can see customized engineering units as configured in LONSPEC™.

IMPORTANT

The LONSPEC™ files that are imported into LONSTATION™ 05.01.00 are automatically associated with the sites.

5. Since alarm information is dependent on a site's configuration, details about each site must be created in LONSTATION™ (LONSTATION™ stores each site's ID and each Excel15A stores the LONSTATION™ workstation ID). LONSTATION™ must connect to each remote site and generate a device list. Compiling a Device List requires LONSTATION™ to locate each device/node in the project or on the network and acquire from each device its LONMARK® objects and identifiers. This can be time consuming (depending on network traffic, and each device's workload) and may take approximately two to three minutes in the direct connect mode and even longer in the remote mode. Once completed, site alarms can be transferred to a “Guaranteed Receptor” Workstation (i.e. a connection is made to or from the remote site, the Workstation ID stored in LONSTATION™ and the Workstation ID stored in the Excel15A must match, LONSTATION™ must have a site with an ID that matches the site ID in the Excel15A, unacknowledged alarms are then transferred to LONSTATION™, and the Excel15A no longer attempts to dial out the alarm(s)).
6. LONSTATION™ provides the same Diagnostics feature for all the Excel 10 controllers as that of LONSPEC™.
7. LONSTATION™ provides a new feature called Alarm Escalation that notifies all configured users about unacknowledged alarms in LONSTATION™. Only an administrator can configure this option for a maximum of 5 users. Even a non-LONSTATION™ user can receive alarm notification.
8. LONSTATION™ has a communication port assignment window accessible through the Configure menu. The user can specify the functions of each COM port through this window.
9. The Communication Setting screen field Port used: lists the COM ports as per the Network Interface selection. The network interface selection is available only for a local connection to a site. In case of a remote connection, the Network Interface combo will not be available. LONSTATION™ will dynamically detect the interface at the remote end.
10. Transmission of alarms to LONSTATION™ may be delayed for various reasons (busy phone line, temporary phone equipment outage, etc.), although alarms are not lost.
11. LONSTATION™ has a storage limit of 5000 unacknowledged alarms and the alarm history has a limit of 1000 alarms. Alarms will be deleted chronologically once the limits are exceeded.
12. LONSTATION™ provides online help. Refer to the Online help for the latest details and enhancements. The user guide provided with previous versions will not be available.
13. LONSTATION™ stores device parameters in a file and any discrepancy between a device and the information in the file is automatically detected and only the latest information is provided.
14. Modems must be installed (through Windows) on the COM ports before LONSTATION™ can use them for connections.
15. LONSTATION™ supports RapidLink™ as the local and remote network interface to enhance the speed of communication and reliability of file transfers.
16. Upon startup, LONSTATION™ detects the local RapidLink™, SLTA and also modem ports.
17. In the Site-Connect option, LONSTATION™ shall list the ports based on the network interface selection. This is valid only when the connection type is Local.
18. LONSTATION™ constantly communicates to a local RapidLink™ at a default speed of 115200 bps. The baud rate selection is available for a local SLTA and disabled for RapidLink.
19. The baud rate selection is not enabled for a remote connection.

20. LONSTATION™ dynamically detects the network interface (RapidLink/SLTA) in case of a remote connection. Right click on the site and select the Connection Details menu option to view the remote network interface type details.
21. Users can now receive e-mail notifications about Auto TOD status and Site Reporting Status. The existing configuration screen has been enhanced to accommodate this. The administrator has the access privilege to configure this option.
22. LONSTATION™ is enhanced to update the configuration changes done through LONSTATION™ to the associated LONSPEC™ file. This ensures that LONSPEC™ file is in synchronization with the device and LONSTATION™ file.
23. Version information for third party LONMARK® devices - Since the version information is not available in some of the XIF files, the version field in the device details page in the site service will be empty.
24. The installer should Register any Third Party LON devices and customize the available SNVTs. Select what SNVTs can be monitored, change the Alias Name to a more user friendly name, change engineering units, and set high and low limits.
25. Writing to third party LONMARK® devices: Writing to network input variables (nvi) depends on whether the nvi can be written to or not. The XIF files do not specify this, so LONSTATION™ enables write back for all the nvi points. Refer to vender documentation to determine the SNVT operation.
26. While uploading or downloading data from any controller at a remote site, if you switch off the modem power supply (PC side or Site side), LONSTATION™ may perform an illegal operation. Once it displays the illegal operation window, the user must restart LONSTATION™.
27. Under Microsoft® Windows® 2000, DIGI Board Internal Modems will not receive alarms and will not be able to upload any file data from file transfer supporting controllers. DIGI Board Internal modems can only be used for Automatic TOD schedule download operation and are therefore not recommended. It is recommended to use Multi-Tech board, which can be used for Alarm transfer, Auto TOD, Autopolling and some other on line remote operations. Make sure that each of the above mentioned operations are assigned to dedicated COM ports.

Application Notes specific to Auto Time of Day (TOD) Download:

1. Editing the start and stop time of a download program does not work 100% of the time. The frequency of this problem is less than 1%.

NOTE: Work Around: The user may be required to enter the edit mode more than once and click 'OK'.

2. Before starting the download program, the user must ensure that he has checked the TOD Schedule download option in the COM port assignment (Configure/Com Ports assignment) window of LONSTATION™. It is recommended that the user configure different COM ports for AUTO TOD download and Alarms dialing into the workstation.
3. After initiating a download program, any change in the site information such as site ID, Site Name or Site Phone No., may result in download failure for the modified site.
4. LONSTATION™ Auto TOD Download displays the estimated download time depending on the number of devices in the device group. This figure is only an estimate and the actual time it takes to download can vary depending on the physical conditions of the phone line, negotiated baud rate, etc.
5. The user cannot Stop/Edit/Delete a running program, so it is highly recommended to verify the configuration of the Master Schedule, Device Group etc. before starting the program.

Application Notes specific to Autopolling:

1. While viewing data logged for Trends or user defined points, the default scale used for the X-axis is day-wise. Right clicking on the chart and selecting the "properties" option can change the X-axis scale. Click on the Help icon in the presentation screen to get more details about customizing the display of charts.
2. Based on the frequency of Autopolling and the amount of data polled, the file size can increase. To avoid this, configure the Autopolling program to automatically archive the data or delete the data at specific intervals. Data that is archived in this manner can be restored into LONSTATION™ for analysis at any later time.
3. Device groups created for Auto TOD programs can be used for Autopolling also.
4. LONSTATION™ Autopolling configuration screen displays the estimated polling time depending on the number of devices in the device group and the number of points selected for polling. This figure is only an estimate and the actual time it takes to poll all the points can vary depending on the physical conditions of the phone line, negotiated baud rate, etc.
5. After initiating a polling program, any change in the site information such as site ID, Site Name or Site Phone number may result in failure of polling of data from the modified site.
6. The "Stop current Polling" is only to stop polling programs that have already started. Stopping autopolling program after it has started could take several minutes to stop the running program.

7. To suspend polling programs that have not yet started (i.e. to suspend program that could start any time in the future), use the “Suspend/Resume programs” feature.
8. If the phone line gets disconnected while a polling program is executing, the program will not attempt to connect to that particular site again and this will be recorded in the error log.
9. Before starting the polling program, the user must ensure that a COM port has been selected for Autopolling in the COM port assignment (Configure/Com Ports assignment) window of LONSTATION™. It is recommended that the user configure different COM ports for AUTO TOD download, Autopolling and Alarms dialing into the workstation.
10. The AutoPolling “Manage Presentations” feature has options so that the user can view all the bypass, trend, runtimes along with user-defined points in one graph. This consolidated graph is available in a tab called “All Data”.
11. The “AutoPolling Manage Presentations” feature also provides an option to compare the data based on a range of date selections. This aids the user in analyzing the different parameters like energy, power consumption etc. across a different range of dates.

Application Notes specific to Graphics:

1. When a User enters wrong protocol (e.g., htt: //, htt//) or an unreachable URL, LONSTATION™ displays an empty message Box. The error is not shown to the User and the page is empty. User can click “OK” on the empty message box and normal operations can then resume.
2. Occasionally, when the user tries to delete the Point control, Device button or the Link Button simply by selecting them, the deletion does not occur. However, if the Tab button is used to select the Graphics points, then the deletion works correctly.
3. Dragging and dropping of points on the wallpaper does not work correctly. The graphics control must be dropped outside the wallpaper and then dragged over the wallpaper.
4. To configure digital input points in the customized graphics page, LONSTATION™ should be connected on-line to the Site. To configure these points in an off-line mode, associate the LONSPEC™ project file to LONSTATION™.
5. The 40 Excel 15C controller setpoints can be modified through the Special Displays option. These setpoint names are changeable and LONSTATION™ checks if there is any duplication of the object names across the various objects in the controller.

L. NEW FEATURES AND ISSUES ADDRESSED IN THIS RELEASE:

1. LONSTATION™ supports T7350 and NX VFD controllers. The monitoring and diagnostics performed for other controllers are also applicable to these controllers.
2. Rapidlink Flasher, a utility tool shipped with the LONSTATION™ Installation CD is upgraded to version 2.0.1. It provides Internationalization Support enabling you to download country specific modem settings to Rapidlink.

M. KNOWN ISSUES WITH THIS RELEASE:

1. Turn off and then turn on the power to RapidLink every time you upgrade the RapidLink firmware from RapidLink Flasher. This ensures that RapidLink is in a good working condition.
2. Sometimes LONSTATION™ hangs if there is a power reset in SLTA-10 when reading information from Excel 15A in a local site. In such cases, restart LONSTATION™ to resume normal operations.
3. The order in which the T7350 holidays appear in LONSTATION™ is different from the order in which it appears in the palm PC. For example, holidays 1 to 6 in LONSTATION™ corresponds to holidays 5 to 10 in the palm PC.
4. Sometimes LONSTATION™ 4.6.0 shuts down automatically while starting the Monitor and Diagnostic functions for the Excel 10 controller selected from the tree structure in the Left Navigation window pane. In such cases, restart LONSTATION™ to resume normal operations.
5. On rare occasions, after a period of time, LONSTATION™ may stop receiving alarms from a site and the user will not be able to connect to the site. If this state occurs, connection attempts made by Autopolling or AutoTOD programs may also fail. In such cases, restart LONSTATION™ to resume normal operations.
6. If SMTP-relaying is disabled in the mail server used for the e-mail feature, e-mail will not be sent out. The IP address of the mail server should be configured in LONSTATION™ so that it can be used to send e-mail. Similarly the mail server should allow SMTP relaying from the PC where LONSTATION™ is installed. Refer to LONSTATION™ online help for details.
7. While launching LONSTATION™, the application will occasionally stop responding. This occurs if the “SLTA Link Manager” application is active and is using one of the ports that are being detected by LONSTATION™.
Work Around: Close the “SLTA Link Manager” application and then launch LONSTATION™.
8. When selecting the Polling/Points log types in the Autopolling Configuration screen, LONSTATION™ takes more time to display the points if there are many Excel 15A or Excel 15C user-defined points selected.

9. Occasionally Autopolling programs may not be able to successfully query device status. Although the devices are listed in the site device list, the Autopolling log window may show that the device is not available.
10. The Autopolling program log file does not display the success or failure status of individual user-defined points. Instead, the status is displayed for the entire set of User-defined points selected for that particular Autopolling program.
11. Restoring Autopolling information from an archive file takes time based on the size of the information being restored.

N. MIGRATION PATH FROM LCBS 3X:

Follow these steps when migrating from a LCBS3X (LONSPEC™ 3X and LONSTATION™ 3X) system to a LCBS4.6.X system:

Backup from 3X

1. Backup all LONSPEC™ 3X project files.
2. If LONSPEC™ files are not available, take a copy of the LONSTATION™ site file located in LonStation\Database folder. The name of the file is osmsitemgmt.mdb
3. Backup Graphic files (if graphics option is installed) using the Back-It utility.

NOTE: WinZip tool might be required to take a compressed backup of the custom graphic files. Buy and install a licensed copy of WinZip before the Back_It Tool program is executed.

4. Uninstall LONSPEC™ 3x and LONSTATION™ 4X

Restore in 5X

1. Install LONSPEC™ and LONSTATION™ version 05.01.00, and restart the PC. To launch and use LONSPEC™ and LONSTATION™ version 05.01.00, the logged in user must be configured as an administrator.
2. Launch LONSPEC™ 05.01.00 and restore all the backed up files. This process upgrades the older version files to 5X version.
3. Launch LONSTATION™ 05.01.00 and use "Import LonSpec projects" to import all the project files that are restored in LONSPEC™ 05.01.00. LONSTATION™ 05.01.00 allows importing of LONSPEC™ project files that are either upgraded to 4X version or created using LONSPEC™ 04.x.
4. If LONSPEC™ files are not available, import the sites and devices from the backed up LONSTATION™ file.
5. Once the sites and devices are imported in to LONSTATION™ 05.01.00, the graphic files that were backed up can be restored. Shut down LONSTATION™ 05.01.00 and launch the Back_It tool to do this operation.

NOTE: The above-mentioned steps will import all the sites, devices and graphics information used in LONSTATION™ 3.x/4.x/4.6.5/4.6.8 into LONSTATION™ 05.01.00.

LONWORKS®, *LONMARK®*, and *LONTALK®* are registered trademarks of Echelon® Corporation.

LONSPEC™ and *LONSTATION™* are trademarks of Echelon® Corporation.

Microsoft® and *Windows®* are registered trademarks of Microsoft, Inc.

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422
customer.honeywell.com

Honeywell Limited-Honeywell Limitée
35 Dynamic Drive
Scarborough, Ontario M1V 4Z9



Honeywell