

Excel 15B W7760B BUILDING MANAGER

Light Commerical Building Solution

USER'S GUIDE

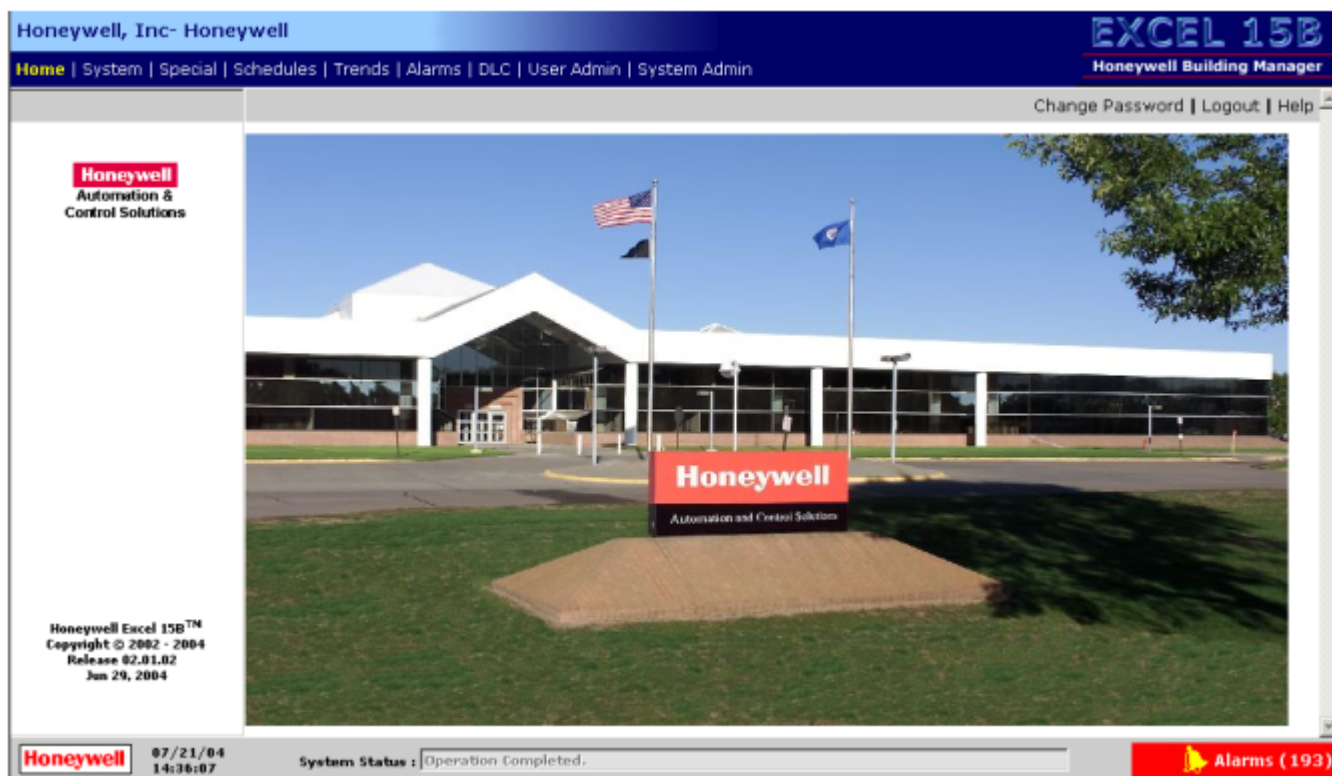


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INTRODUCTION

Description

The Excel 15B Building Manager is a Light Commercial Building Solution (LCBS) operator interface (Ethernet network server) and LonWorks® Bus supervisory device. On the Ethernet side it provides multi-user access to HTML pages for Building Manager configuration and LCBS monitoring and command functions. On the LonWorks® side it communicates with NX VFD, Excel 10 application specific devices and Excel 15C plant managers to provide network wide alarm handling, scheduling, trend logging and monitoring building's rate of energy consumption (DLC service).

The Excel 15B has a self discovery feature that makes system setup simple. It creates its own device status list by automatically detecting existing devices on the LonWorks® network. It supports a maximum of 120 devices; a combination of NX VFD, Excel 10 and Excel 15C devices on different domains inter-connected by gateways. Each controller is already configured to support distributed intelligence and peer to peer communication across the network, thus enhancing reliability.

The Excel 15B Building Manager is a network appliance equipped with a hard drive. The use of a hard drive greatly expands the alarm handling, scheduling and logging capabilities when compared to EPROM or RAM based control devices.

Following are the basic features of Excel 15B:

- Excel 15B web application server is a 'PC in a box' based device that is also optimized as a network server.
- Automatically identifies all nodes on the LonWorks® network and creates a Device Status List (DSL).
- Acts as a time master and schedules time on all Q7300 and T7350 devices.
- Supports up to 120 devices—a combination of NX VFD, Excel 10 and Excel 15C devices.
- Automatically configures alarm handling on all supported NX VFD, Excel 10 and Excel 15C devices.
- Provides means for initiating and cancelling bypass, writing setpoints, configuring and monitoring of alarms on all supported devices.
- Provides 100 user configurable trends on all points of supported devices.
- Monitors and enables setpoints and data modifications on all NX VFD, Excel 10, and Excel 15C devices.
- Enables you to create a maximum of 20 special displays with databoxes to read and display data points from any supported device or object on the LonWorks® network.
- Enables you to insert graphics as a static background when monitoring network data.
- Manages building's rate of energy consumption using Demand Limit Control (DLC); sheds or restores loads appropriately based on the current power consumption of the building (current KW value).
- Provides real time clock for scheduling and time stamping of trends and alarms.
- Enables multi-user access
- Supports Deutsch and French languages for its web pages. The default selection is "English".
- Excel 15B acts as a network interface when performing the following functions from LonSpec™:
 - Downloading all NX VFD, Excel 10 and Excel 15 devices' configurations.
 - Configuring alarms, trends, schedules and DLC loads off-line.
 - Performing online functions like device diagnostics and calibration.
 - Performing Device Discovery
- Commission and configuration of Excel 15B from LonSpec™.
- Upload Excel 15B configuration to LonSpec™.
- Download Excel 15B configuration from LonSpec™.
- Download LonSpec™ project database to Excel 15B.
- Upload LonSpec™ project database from Excel 15B to LonSpec™.

Control Applications

Following are the typical Light Commercial Building Applications:

- Single zone air handling unit thermostat control for up to three stages of heating and three stages of cooling.
- Single Zone Air Handling unit control for up to four stages or modulating heating and four stages or modulating cooling with integrated economizer control.
- Heat Pump Air Handling unit control for up to four compressors (heating and cooling) and four stages of auxiliary or emergency heat and integrated economizer control.
- Unit Ventilator control with American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) cycle 1, 2, or 3 selection.
- Variable Air Volume Terminal unit control with:
 - Single and dual duct
 - Standard and fan powered (parallel and serial)
 - Reheat and/or peripheral heat
 - Air flow tracking
- Variable Volume Air Handling units (plants) control
- Variable Frequency Drive for Duct Air Flow control
- Custom air handling unit control
 - Humidification and/or dehumidification
 - Preheat
 - Reheat
 - Make-up air
 - Tempering systems
- Lighting control
- Equipment on-off scheduling
- Custom applications

Products Included

Excel 15B recognizes the following two types of devices on the LON® network:

Supported Devices

Excel 15B allows you to view status, change setpoints and trend points and monitor alarms on the following supported devices. (See Table 1.)

Table 1. Supported Devices.

Device	Description
Q7300H	Communicating subbase for T7300
T7350	Communicating subbase for T7350
W7760C&D	Plant Devices
W7761A	Remote Input Output Device
W7753A	Unit Vent Device
W7751B,D,F,H,J	Variable Air Volume II Device
W7750A,B,C	Constant Volume Air Handler Unit Device
W7762A,B	Hydronic Device
W7763C	Cold Ceiling Device
W7752D, E, F,G, J	Fan Coil Unit
NX VFD	NX Variable Frequency Drive

Non-Supported Devices

Excel 15B does not conflict with the functioning of non-supported devices or their interactions with other devices on the network. Excel 15B periodically performs a query status on these devices and generates an alarm if they do not respond.

NOTE: On the “System::View” page, when you select a non-supported device, a default page with the following text is displayed - **“This Device is not Supported”**.

Table 2. Non-Supported Devices.

Device	Description
W7760A	Small Building Device
S7760A (CD2)	Command Display
Q7760A	SLTA
W7790A	RF Gateway
XFL521	4-Digital Input Output Device
32003448-001	VASA VFD Accessory LonWorks® Board

Organization of Manual

This manual provides the information required for a user to access information from a LCBS site equipped with an Excel 15B Building Manager using Microsoft® Internet Explorer (IE). This manual does not provide information regarding the data viewed and retrieved from the LCBS site or operation of the monitored equipment.

This manual assumes that you have a working knowledge of Microsoft® IE version 5.5 or higher and the computer in use has access to the Internet. The Excel 15B Building Manager fully supports IE functions. While the manual is written with references to operation with a pointing tool (mouse), IE keyboard hotkeys and shortcuts are also supported.

The manual is written in four sections: Introduction, Operator Procedures, Configuration Procedures and Error Reference. Appendix A provides reference information.

NOTE: Setup instructions for the Excel 15B Building Manager are included with the **Excel 15B Building Manager Installation Instructions (95-7668—6)**.

Hardware Description

The Excel 15B Building Manager is a special purpose network server with built-in Network Interface Device (NIC), LonWorks® interface (PC-LTA 10), RS-232 serial interface for connection to a PC (Personal Computer) for initial setup and a hard drive. It does not support monitor, keyboard, or printer functions.

OPERATOR PROCEDURES

The following procedures covers typical operator functions to view control system data, change setpoints, initiate or cancel occupancy bypass operation, configure schedules and schedules assignments, view DLC configuration summary, DLC load status and DLC graph, view and download alarm logs and trend logs. The procedures assume that you have a working knowledge of Microsoft® IE version 5.5 or higher and the computer in use has access to the Internet or LAN/WAN connection to the Excel 15B Building Manager. While the manual is written with references to operation with a pointing tool (mouse), keyboard hotkeys and shortcuts are also supported. When connected, the site may appear to be running slow. This results when the Excel 15B Building Manager needs to update the database from the LonWorks® network prior to responding to operator request.

Accessing Excel 15B Site

Description

The Excel 15B Building Manager provides a secure web site that requires a unique user ID and password to gain access. The URL is a static IP address in numeric format, provided by the site Internet Service Provider (ISP). If a domain name is assigned to the site, the domain name may be used as the address.

NOTE: It is recommended that you create a folder in "Favorites" and store the URL addresses of all Excel 15B sites that are accessed regularly.

Pre-requisites

- IE version 5.5 or higher.
- Suggested screen resolution is 1024 by 768 pixels.

Procedure

1. Open IE.
2. Enter one of the following in the IE address bar:
 - Excel 15B Site URL address. The URL address consists of the IP address or host name followed by "/xl15b.htm". (The entry is xl15b all in lower case.)
 - IP address of Excel 15B (Maintain the format of an IP address. For example, https://100.1.1.2/xl15b.htm)

NOTE: In case you are accessing the site using the host name, then ensure that the WINS server is enabled.

3. Click "Go" or press <Enter>. Once the connection is established, the "Excel 15B Login" page is displayed.

Logging On

NOTE: You need to click the appropriate language option in the Header Area if you are using the "French" or "Deutsch" versions of Excel 15B (refer to **Fig. 1**).

Description

The "Login" page is the initial page for connecting to a site. Enter the user ID and password assigned to you by the System Administrator (default user ID: SysAdmin and password: !Sys!Admin); the user ID and password determine

your access levels and the configuration and command functions that you can perform. Though you can log on to Excel 15B using one of the three languages, the application pages will still be displayed in the language that the System Administrator has selected for you when configuring your profile.

NOTE: For security reasons, ensure that you change the default password after the initial configuration of Excel 15B.

Procedure

1. Enter your user ID and password on the "Login" page. ("User ID" and "Password" are case sensitive.)



Fig. 1. Login page.

2. Click "Login" or press <Enter>. The "Excel 15B Home" page appears. For more information on the different sections in an Excel 15B page, refer to ["Excel 15B Home Page" on page 10](#).

If you are logging on to Excel 15B for the first time, then you are prompted to change your password after authentication of your user ID and password.

• Important

- If you had three subsequent unsuccessful logon attempts in two minutes, then your account is locked for another 10 minutes. In such cases, contact your System Administrator for assistance.
- You can only log on when the LonSpec™ - Excel 15B connection is released or when the inactivity timer of 30 minutes ends.

The following message is displayed if you try to log on to Excel 15B when it is connected to LonSpec™ - "Excel 15B system access is blocked currently for maintenance. Please try after some time."

- Excel 15B might slow down when the number of concurrent connections exceeds 15 and the number of active or inactive sessions exceeds 100. "Maximum Session Count Reached" is displayed on top of the Excel 15B page when the session count exceeds 100. In such cases, some of the users must log out and free the application. Only then further login attempts are possible. On the whole, Excel 15B supports a maximum of 100 users.

Changing Your Password

- **Important**

Excel 15B is a secure web site. Exercise care to create a new password that meets good security standards. Once your new password is updated, the old password is no longer valid. It is recommended that you change your password frequently to avoid unauthorized access to the site.

Description

You can change your password after your first login or at any point in time when accessing Excel 15B. If it is your first login, then after entering the new user ID and password provided by the System Administrator, Excel 15B will require the password to be changed. Enter a new password and confirmation as prompted. The “Change Password” option is available only on the “Excel 15B Home” page.

Procedure

1. Click “Change Password” on the “Excel 15B Home” page. The “Change Password” page is displayed; your user ID appears as a disabled text.

- **Important**

If this is your first login, then after authentication of your user ID and password, you are directly shown the “Change Password” page.

Fig. 2. Change Password Page

2. Enter the old password.
3. Enter a different new password and re-enter the new password for confirmation. (Special characters are allowed.)
4. Click “Change Password”. The “Excel 15B Home” page is displayed once your new password is accepted.

Excel 15B Home Page

NOTE: Only the System Administrator has the privilege to change the “Excel 15B Home” page settings. For more information, refer to [“Managing Excel 15B Settings” on page 37](#).

Description

The “Excel 15B Home” page is displayed after authentication of your user ID and password. It is divided into the following sections (this division is uniform across all Excel 15B pages):

- Header Area
- Left Navigation Pane
- Right Content Area
- Bottom Footer or Status Area

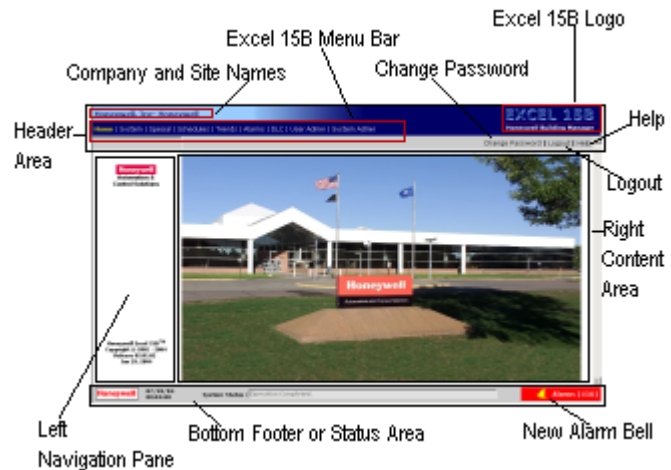


Fig. 3. Excel 15B Home Page




Header Area

Description

Displays the following on all Excel 15B pages:

- Excel 15B logo along with the Company and Site names. For more information on changing the Company and Site names, refer to [“Modifying Company and Site Names” on page 37](#).
- Excel 15B menu bar. The following menus are displayed:
 - “Home”
 - “System”
 - “Special”
 - “Schedules”
 - “Trends”
 - “Alarms”
 - “DLC”
 - “User Admin”
 - “System Admin”
- Relevant titles or names for all Excel 15B pages. Examples are: “User Defined Trends::Configure” page, “System::View” page, “System Administration::System Setup” page.
- “Expand”, “Collapse” and “Refresh” options: They are displayed on top of the left navigation pane. Click each option to perform a task related to the icons or lists in the left navigation pane.

Table 3. Icons in the Header Area.

Icon Name	Description
	Click the "Expand All" option to expand an icon to view its corresponding details. It works only for icons that have a '+' beside them.
	Click "Collapse All" option to close the expanded list. It works only for icons that have a '-' beside them.
	Click "Refresh" option to refresh the list displayed in the left navigation pane especially when you create or update a particular option. For example, click "Refresh" if the new Global Schedule that you created is not visible in the list under the "Global Schedules" icon.

- "Logout"
Click "Logout" to quit Excel 15B. The system also automatically logs you off after a certain period of inactivity (refer to **"Logging Out" on page 12**).
- Help
Click "Help" displayed on any of the Excel 15B pages to view the related information. You can also refer to the Excel 15B user guide that is provided along with Excel 15B application.

Left Navigation Pane

Description

Displays menu specific icons in a tree structure (where applicable). In addition, on clicking each icon, it displays related options using which you can perform specific tasks.

- Examples of some icons that automatically display the respective lists when you click the corresponding menu:
 - On clicking "System" on the Excel 15B menu bar, the "Device List" icon is automatically expanded to display the list of all devices on the Lon[®] network. Click any device to view, write setpoints and initiate bypass on the device in the Right Content Area.
 - On clicking "User Admin" on the Excel 15B menu bar, the "Users" icon is automatically expanded to display the list of Excel 15B users. Click any user to view and update the user details in the Right Content Area.
- Examples of some icons that have a '+/-' beside them; you need to click the '+' to view the list and '-' to collapse the list.
 - On the Trends page, click "+" beside the "User Defined Trends" icon to view the list of configured user defined trends.
 - On the Schedules page, click "+" beside the "Weekly" icon to create or view the configured Weekly Schedules.
- Examples of some icons, which upon clicking directly display the related page.
 - Click "Device List" on the "System Admin" page to view, hide, or delete devices connected to Excel 15B.
 - Click "Schedule Assignment" icon on the "Schedules" page to assign or unassign Global Schedules to devices.

Right Content Area

Description

Displays Excel 15B pages with options that are related to the selected tab or icon.

Bottom Footer or Status Area

Description

Displays the following on all Excel 15B pages:

- System Status: displays the status of a particular task. For example, the following information is displayed after authentication of your user ID and password.

System Status : You have logged in successfully.

- Date and Time: displays the system (Excel 15B) date and time.

10/29/03
00:15:29

- New Alarm Bell or Indicator: displays the number of unacknowledged alarms. Click the bell to directly view the "Alarms" page.

 **Alarms (126)**

Logging Out

Important

Excel 15B ends your login session after 30 minutes of inactivity. When you try to access any page, Excel 15B displays the following error message:



Fig. 4. Inactivity Timer Message.

Click "Back To Login Page" to repeat the login process. Excel 15B resets the inactivity time when you repeat the login process.

Procedure

1. Click "Logout" on the Excel 15B menu bar. A message box appears informing you that your logging out when performing a particular task will result in abrupt end of that task - **Logging out when an action is in progress may result in abrupt end to the action. Do you really want to logout from Excel 15B?**
2. Click "OK" to disconnect from Excel 15B.

Help

Description

Excel 15B online help is available for each individual Excel 15B page. When on a particular page, click “Help” displayed on the Excel 15B menu bar to view the help details for that particular task.

Viewing a Device's Current Settings

Minimum Access Level Required: Tenant

Click “System” on the Excel 15B menu bar to view a device's current status, write setpoints, initiate or cancel occupied bypass, and replace graphics. You can also discover devices on the Lon[®] network.

Description

The “System::View” page displays the names of all devices connected to Excel 15B, in a network tree and provides access to data from individual devices. All General-Purpose devices (XL 15C devices) with multiple objects are identified with a ‘+/-’ box on the first level of the tree. Expanding the tree for such a device will display the individual objects within the device as an indented tree structure.

Procedure

1. Click “System” on the Excel 15B menu bar. The “System::View” page is displayed.
2. Navigate through the list of devices displayed under the “Device List” icon. The list comprises of both Application Specific and General-Purpose devices.

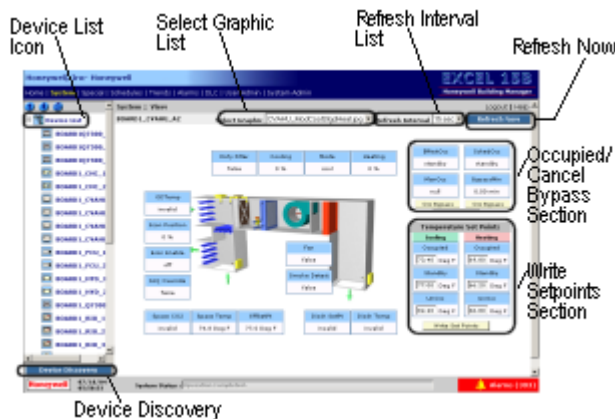


Fig. 5. System::View Page

3. Choose the device whose configuration and status you want to view. In addition to viewing the device details, you can also do the following:
 - Write new setpoints to the selected device
 - Initiate bypass
 - Cancel bypass
 - Replace the existing graphic
 - Change the refresh interval rate

NOTE: For a selected device or object, the following messages are displayed on the “System::View” page, under different scenarios:

- If the selected device or object is not active
The following message is displayed if the device or object that you select is not responding - “**This Device is not active**”. It may be due to a fault in the device or the selected device might be switched off.
- If Excel 15B does not support a device
The following message is displayed only for non-supported devices that are there on the LON[®] network - “**This Device is not supported**”. Excel 15B discovers such devices but does not communicate with them. For example, you can view the above-mentioned message for Excel 15A on the “System::View” page.

NOTE: Each of the following legend identifies a particular state of the selected point value on the “System::View” page:

- ‘---’ (implies the device is off-line)
- Invalid (implies the selected point value is invalid or the NV (Network Variable) cannot be read).
- Number/text (value or state of the selected point).
- Place the mouse pointer in the blue area of the databox to view the point name and in the white area to view the value read.

Following is a brief description of Application Specific and General-Purpose devices.

Application Specific Devices

Application specific devices open to a graphic or text display of data. The following information is available:

- Identification of the specific device displayed.
- A graphic of the application.
- Current operating data (varies by device type).
- The current setpoints for the device. You can modify these setpoints if you have appropriate access level.

General-Purpose Devices

General-Purpose devices open a text display of the status of the device physical inputs and outputs.

Control Objects

Expand the general-purpose device to view its control objects. A control object is a specific control function within a general-purpose device (XL 15C Building Manager). The following are the three types of control objects that can be displayed: PID Control loops, Logic loops, and Start-Stop loops.

For each control object, a graphic or text display of the control object is displayed. A control object's graphic depicts the object loop function; it does not depict the application for which it is being used.

PID Control Loop

The following data is available from the graphic or text display of a PID Control loop:

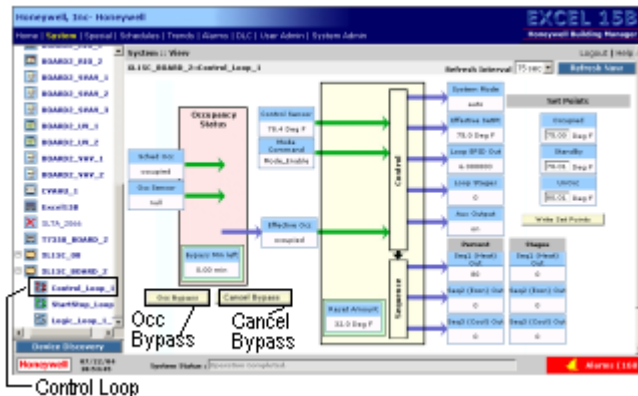


Fig. 6. System::View Page - Logic Loop

- Identification of the specific device and PID Control loop displayed.
- A graphic of the PID loop function.
- Current operating data.
 - Occupancy status. Bypass may be initiated during the Scheduled Unoccupied ("Sched Occ" = "Unocc")
 - Primary control sensor value.
 - PID loop output values.
 - The current setpoints for the device. These setpoints may be changed if you have appropriate access.

Logic Loop

The following data is available from the text display of a Logic loop:



Fig. 7. System::View Page - Logic Loop

- Identification of the specific device and Logic loop displayed.
- Current operating data:
 - Logic loop name.
 - Status mode.
 - Digital output status.
 - Analog output value.

Start-Stop Loop

The following data is available from the text display of a Start-Stop loop:

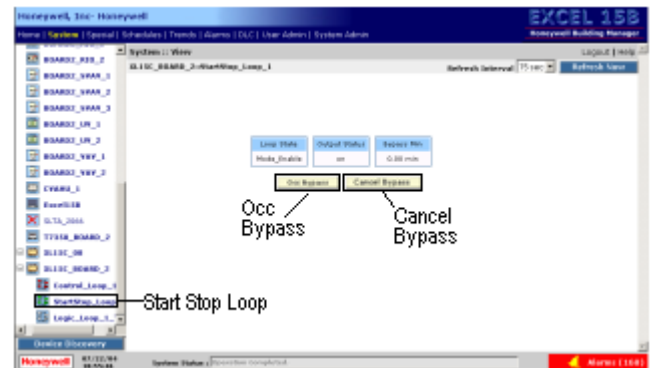


Fig. 8. System::View Page - Start-Stop Loop

- Identification of the specific device and Start-Stop loop displayed.
- Current operating data.
 - Start-Stop loop name
 - Loop state
 - Output status
 - Bypass minutes (time remaining)

Each device point values are read and displayed in non-editable databoxes at specified intervals. By default, the point values are updated every 15 seconds. You can also customize the frequency at which the "System::View" page is refreshed by selecting it from the "Refresh Interval" list. The minimum refresh interval is "15 secs" and the maximum is "5 mins". Refer to Fig. 5 to know the location of "Refresh Interval" list on the "System::View" page. Also, you can replace the device's default graphic with a graphic of your choice.

Important

You can only write new setpoints and initiate or cancel bypass on the selected device or object. If you want to select and monitor other point values, then you need to configure a Special Display using the "Special" menu. For more information, refer to "Creating a Special Display" on page 43.

Selecting a New Graphic

Minimum Access Level Required: Tenant

Procedure

1. Click "System" on the Excel 15B menu bar. The "System::View" page is displayed.
2. Select the device or object whose graphic you want to change (refer to Fig. 5).
3. From the "Select Graphic" list, select a new graphic to replace the existing graphic. Only those graphics that are saved in Excel 15B are displayed in the list. The graphic selected is non-editable and acts as a static background for the data displayed on the "System::View" page.

NOTE: If the selected graphic is not displayed immediately, click "Refresh Now" to refresh the page.

Changing Setpoints

Minimum Access Level Required: Assistant Operator



CAUTION

Validate the new setpoints with the existing setpoint standards before writing them to the device or object.

Procedure

1. Click "System" on the Excel 15B menu bar. The "System::View" page is displayed.
2. Select the device or object whose setpoints you want to change (refer to [Fig. 5](#)).
3. Enter the setpoints of your choice in the "Write Setpoints Section".
4. Click "Write Set Points". This function downloads the new setpoints to the device. Wait for a minute and click the "Refresh Now" option to view the values read.

SETPOINT VALIDATIONS

A setpoint is considered based on the mode of device function and device status. Consider validating the new setpoint with the following setpoint standards before writing them to the device or object.

Valid Conditions

- Heat UnOccupied ≤ Heat StandBy ≤ Heat Occupied ≤ Cool Occupied ≤ Cool StandBy ≤ Cool UnOccupied.

Invalid Conditions

The following are some of the invalid conditions for which the node issues an "InvalidSetPoint" alarm:

- Any setpoint lies outside the 10°C to 35°C (50°F to 95°F) range
- UnOccupiedHeatSetPoint > OccupiedHeatSetPoint
- OccupiedHeatSetPoint > OccupiedCoolSetPoint
- OccupiedCoolSetPoint > UnOccupiedCoolSetPoint
- StandByHeatSetPoint > StandByCoolSetPoint

Initiating Occupied Bypass

Minimum Access Level Required: Assistant Operator

Procedure

1. Click "System" on the Excel 15B menu bar. The "System::View" page is displayed.
2. Select the device or object whose occupancy mode you want to change (refer to [Fig. 5](#)).
3. Click "OccBypass" when the Effective Occupancy ("EffectOcc") of the device or object is in the "UnOccupied" mode. The Effective Occupancy ("EffectOcc") changes to the "Bypass" mode. Wait for a minute and click the "Refresh Now" option to view the device state.

The following table lists the occupancy modes of a device or object before and after initiating bypass:

Table 4. Device and Object Occupancy Modes

Occupancy Modes	Before Initiating Bypass	After Initiating Bypass
Effective Occupancy ("EffectOcc") - the current occupancy mode of the device or object.	UnOccupied mode	Bypass mode
Scheduled Occupancy ("schedOcc") - the scheduled occupancy mode setting for a device or object.	UnOccupied mode	UnOccupied mode
Manual Occupancy ("ManOcc") - the occupancy mode set by manual command from a network supervisory device. This status should normally be "Null" meaning no manual override of the occupancy mode.	Null	Bypass mode

NOTE: Bypass Minutes ("BypassMin") is the time in minutes remaining of the bypass period.

Cancelling Occupied Bypass

Minimum Access Level Required: Assistant Operator

Procedure

1. Click "System" on the Excel 15B menu bar. The "System::View" page is displayed.
2. Select the device or object whose occupancy mode you want to cancel (refer to [Fig. 5](#)).
3. Click "Cancel Bypass". The Manual Occupancy of the selected device or object is written as 'Null' and the device or object reverts to its default behaviour.

Updating the Device List on the LON[®] Network

Minimum Access Level Required: Assistant Operator

On startup, Excel 15B performs a device discovery. During this process, Excel 15B communicates with all the devices on the Lon[®] network and prepares a device status list (DSL).

• Important

Excel 15B automatically performs Device Discovery operation once every 24 hours to periodically update the "Device List".

Procedure

1. Click "System" on the Excel 15B menu bar. The "System::View" page is displayed.
2. To manually update the device list, click "Device Discovery" (refer to [Fig. 5](#)). You are informed that by initiating the Device Discovery process, the entire device list on the network will be updated.
3. Click "OK" to proceed with the task. The "System::View" page does not display the discovered devices immediately. Wait for a minute and click the "Refresh" option to view the list of discovered devices.

NOTE: Any device that is hidden on the "System Administration::Network Summary::Device List" page is not displayed in the "Device List" tree structure after the update process. For more information on showing and hiding devices, refer to ["Managing List of Devices" on page 41](#).

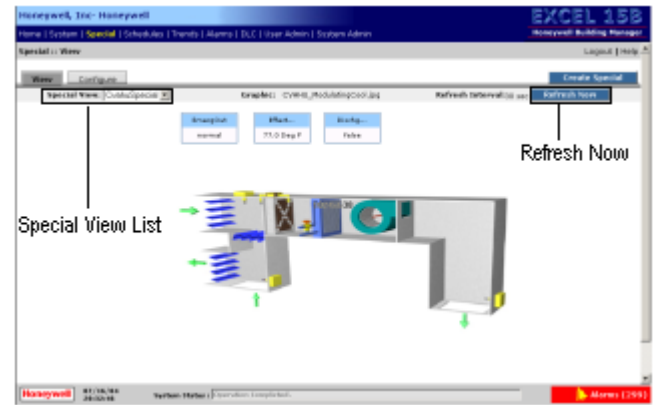


Fig. 9. Special::View Page

Viewing a Special Display

Minimum Access Level Required: Assistant Operator

Click "Special" on the Excel 15B menu bar to create, update, or view a Special Display. For information on creating and updating a Special Display, refer to ["Creating a Special Display" on page 43](#) and ["Configuring a Special Display" on page 44](#).

Description

Special Displays are custom graphics for applications. You can create a maximum of 20 Special Displays. Any available device data can be displayed on any Special Display.

Special Displays use graphics (GIF and JPG format) as a static background for network data. Each such graphic can be used for multiple Special Displays. These graphic files can be created using any tool and imported into Excel 15B. For more information on importing a graphic, refer to ["Importing a Graphic File" on page 40](#).

NOTE: Special Display and Special View mean the same and are used interchangeably.

Procedure

1. Click "Special" on the Excel 15B menu bar. The "Special::View" page is displayed with the details of the first configured Special Display.
2. If you want to view another Special Display, then from the "Special View" list, select the Special Display that you want to view. The "Special::View" page is automatically refreshed to display the selected Special Display. Only those Special Displays that are available in Excel 15B are displayed in the "Special View" list.

NOTE: The "View" tab is disabled if there are no Special Displays configured in the system.

NOTE: If the selected Special Display does not appear immediately, click "Refresh Now" to refresh the page. Otherwise, the "Special::View" page is refreshed after the specified refresh interval.

IMPORTANT

To change a device or object's setpoints and initiate or cancel bypass, you need to go to the "System::View" page and select that particular device or object whose settings you intend to change. These tasks are not supported from the Special Display pages. For more information on performing the above-mentioned tasks, refer to ["Viewing a Device's Current Settings" on page 12](#).

Each of the following legend identifies a particular state of the selected point value on the "Special::View" page:

- '---' (implies the device is off-line)
- Invalid (implies the selected point value is invalid or the NV cannot be read).
- Number/text (value or state of the selected point).
- Long point names are truncated and three dots are displayed at the end of the shortened name in the databox. Place the mouse pointer in the blue area of the databox to view the full point name in a small box next to the mouse pointer (tool tip). Place the mouse pointer in the white area of the databox to view the value read as a tool tip.

Managing Schedules

Minimum Access Level Required: Assistant Operator

Click "Schedules" on the Excel 15B menu bar to create, update or view a Global Schedule, Weekly Schedule, Holiday Schedule or Temporary Schedule. Also, you can assign a Global Schedule to a device, object or DLC.

Description

Excel 15B schedules are used to schedule occupancy modes and start-stop operations on all supported LonWorks® network devices. Excel 15B supports the following four types of schedules:

- Main or Global Schedules
- Weekly Schedules
- Holiday Schedules
- Temporary Schedules

Excel 15B has 20 unique Global Schedules and each Global Schedule can be assigned to multiple LonWorks® network devices. A Global Schedule is configured using one or more of the 20 Weekly Schedules, 50 Holiday Schedules and 50 Temporary Schedules. A Main or Global Schedule sets the scheduled occupancy mode for all devices assigned to it. The following table describes the occupancy modes:

Table 5. Scheduled Occupancy Modes.

Scheduled Occupancy Mode	Description
Occupied	A period of time when the controlled environment is considered to be occupied. It requires a closer control for comfort, health and safety.
Standby	A period during the normal occupied period when the space may not be occupied. It is used for energy saving programs.
UnOccupied	A period of time when the controlled environment is considered to be unoccupied. Typically used to reduce energy consumption.
No Event	A period of time when the device is not assigned any occupancy state.

A Global Schedule can be configured as a Master, Shifted, or Follower Schedule but at least one Global Schedule must be configured as a Master Schedule.

Master Schedule

A Master Schedule uses one or more of the available 20 Weekly Schedules as the base schedule. The occupancy state of a Master Schedule is used directly. At least one of the 20 Global Schedules must be configured as a Master Schedule.

Shifted Schedule

A Shifted Schedule is typically used when some equipment needs to start earlier or later than the Master Schedule or when you must shift occupancy schedule from the Master Schedule time and then return to the Master Schedule time.

A Shifted Schedule, when assigned to a Master Schedule follows the operation of the Master Schedule with an offset in the change of state time (+/- 0 to 60 minutes). On a particular day at a specified time, you can configure a Shifted Schedule to shift the occupancy modes of a device from the selected Master Schedule by selecting the offset time (in minutes) for each state. Only the Master's Weekly Schedule or the Holiday Schedule, whichever is active at that point in time is affected.

The change from one occupancy mode to another is referred to as a Time of Day (TOD) Event or Change of State (COS). A positive number results in the TOD event occurring after the time in the Master Schedule and a negative number results in the TOD event occurring before the time in the Master Schedule.

The Temporary Schedule of a Master Schedule is not affected and those devices that are driven by the Master's Temporary Schedule are not disturbed. A Shifted Schedule only inherits the Master's Weekly and Holiday configurations. Temporary Schedules of individual Global Schedules are independent of each other and are not inherited.

Follower Schedule

A Follower Schedule is mainly created when a Temporary Schedule has to be used on few control devices and not affect other devices operating on the same time schedule. A Follower Schedule allows you to change the occupancy state of one section without affecting other sections.

A Follower Schedule will follow the selected Master's schedule. It inherits Weekly and Holiday Schedules from its Master but it will never inherit its Master's Temporary Schedule.

Multiple Shifted and Follower Schedules may be assigned to follow the same Master Schedule.

Weekly Schedule

Excel 15B has 20 Weekly Schedules which are used to schedule the time and type occupancy mode. A Weekly Schedule can be used by one or more Master Schedules to set the scheduled occupancy mode of LonWorks® network control objects. You can schedule up to six TOD events each day of the week (Sunday through Saturday) and three special days (special 1,2,3). Special days are exclusively used by the Holiday Schedules. A Holiday Schedule follows any one daily schedule of a Weekly Schedule. A Weekly event can be configured to be in an "Occupied", "UnOccupied", or "Standby" state.

Holiday Schedule

Excel 15B supports 50 Holiday Schedules (Holiday or Exception Schedule.) A Holiday or an Exception is a calendar period of one or more consecutive days when a different schedule is needed. Holiday Schedules are applied to Master Schedules by selecting the applicable TOD events from the Weekly Schedule in effect. This means that the Master Schedule ignores its Weekly Schedule and executes the Holiday Schedule for the dates configured. The Holiday Schedule can specify any day of the week (for example, run the Sunday Program on Memorial Day) or one of the three special days.

A Holiday Schedule can be applied to all Master Schedules. A Holiday Schedule will direct the Master Schedule to use one specific day of events from the configured Weekly Schedule regardless of the calendar day of the week. The daily events may be any day of the week or one of the three special day events.

The Weekly Schedule day selected for a Holiday or Exception will be used for all Master Schedules to which the Holiday Schedule is assigned. When a Holiday Schedule is configured, along with the start and end time, you must also mention the day of the week whose daily schedule needs to be followed through out the Holiday period. If you do not want to use any of the seven daily schedules in a Weekly Schedule, you can configure one special daily configuration specifically for the Holiday Schedule.

Temporary Schedule

Temporary Schedules are used when unique operating schedules (a schedule not available in the Weekly Schedule) are required for a defined, limited duration.

You can configure 50 Temporary Schedules at any given point of time. When a Temporary Schedule is in effect, it will have priority over the Weekly and the Holiday Schedules. The same TOD events will be used for each day the Temporary Schedule is in effect.

You can assign a Temporary Schedule to any number of Global Schedules of any type ("Master", "Shifted", or "Follower"). Each Temporary Schedule consists of six events, a start date and an end date. The six events must be used on the specified day instead of the original day schedule. A Temporary Schedule replaces the existing day schedule.

NOTE: You can also create or update a Global, Weekly, Holiday, or Temporary Schedule off-line from LonSpec™ and download the configuration to Excel 15B. For more information, refer to LonSpec™ online help.

Creating a Global Schedule

Minimum Access Level Required: Assistant Operator

General Procedure

1. Click "Schedules" on the Excel 15B menu bar. The "Global Schedule::View" page is displayed (refer to Fig. 17).
2. Click "Create Schedule" displayed on the top right corner of the page. The "Global Schedule::Create New Global Schedule" page is displayed.



Fig. 10. Global Schedule::Create New Global Schedule Page

- **If You are Creating the First Global Schedule**
Clicking "Schedules" on the Excel 15B menu bar displays the following message - **"No Global Schedules found in System"**. Click "Previous Page" to go back to the previous page that you accessed or click the "Global Schedules" icon to create the first Global Schedule. The "Global Schedule::Create New Global Schedule" page is displayed. The following message appears on top of the page - **"No Global Schedules configured in the System"**.
3. Overwrite the default schedule name in the "Global schedule" box with a new name.
 4. From the "Type" list, select the schedule type. The "Type" list displays three schedules: "Master", "Shifted" and "Follower".

- If you select the schedule type as "Master", then proceed with the steps mentioned in "Creating a Master Schedule" (refer to "Creating a Master Schedule" on page 17).
- If you select the schedule type as "Shifted", then proceed with the steps mentioned in "Creating a Shifted Schedule" (refer to "Assigning a Global Schedule to a Device" on page 20).
- If you select the schedule type as "Follower", then proceed with the steps mentioned in "Creating a Follower Schedule" (refer to "Assigning a Global Schedule to a Device" on page 20).

NOTE: After creating a Global Schedule, click the "Refresh Schedule Menu" icon if the new schedule does not appear in the list under the "Global Schedules" icon.



Creating a Master Schedule

Minimum Access Level Required: Assistant Operator

Procedure

1. Follow steps 1-4 mentioned in "General Procedure" (refer to "Creating a Global Schedule" on page 17).
 2. Assigning a Weekly Schedule (refer to Fig. 11)
You can assign a single Weekly Schedule or multiple Weekly Schedules to a Master Schedule.
 - **Important**
 - The Weekly Schedule, start date and month combination is unique. You cannot add two different Weekly Schedules or repeat the same Weekly Schedule for a given start date and month.
 - The previous year's last Weekly Schedule will occupy the current year's vacant slot if the starting of the current year does not have any Weekly Schedule assigned.
 - The same Weekly Schedule can occupy different start dates in a year.
- a. Select "Uses Multiple Weekly Schedules" checkbox if you want to assign more than one Weekly Schedule to the Master Schedule.
 - b. Go to the "Weekly Schedule Summary" section. From the "Assign Weekly" list, select the Weekly Schedule that you want to assign to the Master Schedule.

NOTE: To assign a Weekly Schedule, directly select the Weekly Schedule from the "Assign Weekly" list and click "Add".



Fig. 11. Global Schedule::Create New Global Schedule - Add a Weekly Schedule

- c. Select the start date and month from the respective "Date" (0-31) and "Month" (Jan-Dec) lists.

- d. Click "Add". The pictorial representation turns grey to show the selected Weekly Schedule. As there is no other Weekly Schedule assigned, the selected Weekly Schedule occupies the entire year.
- e. Repeat the procedure to add more Weekly Schedules.

Once assigned, you can also modify or delete a Weekly Schedule.

Updating a Weekly Schedule

- a. To Modify an assigned Weekly Schedule configuration, click its corresponding "Edit" option. The "Assign Weekly" displays the selected Weekly Schedule's name and the "Select Start Date" displays the start date and month of the selected Weekly Schedule.

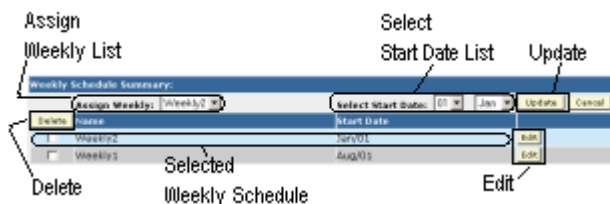


Fig. 12. Global Schedule::Create New Global Schedule - Update a Weekly Schedule

- b. Make the required changes to the schedule and click "Update". The pictorial representation automatically displays the updated Weekly Schedule.

NOTE: Move the mouse over the grey region in the pictorial representation to view the selected Weekly Schedule's name as a tool tip.

- c. To delete or unassign an assigned Weekly Schedule, select the Weekly Schedule's corresponding checkbox and click "Delete".
 - d. Follow the same procedure to modify or delete other assigned Weekly Schedules.
3. Assigning or Unassigning a Holiday Schedule (refer to the **"Assign Holiday Section"** in Fig. 10)
 - a. Click "Select Holiday". The "Select Holiday Schedule" window appears; the list of all configured Holiday Schedules are displayed in the "Available" list.

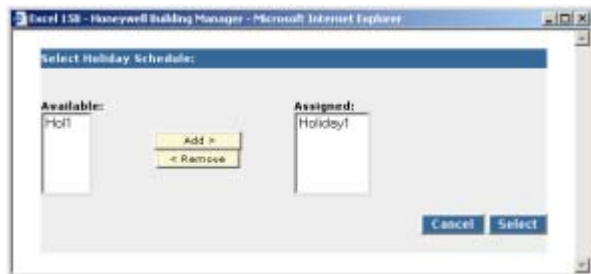


Fig. 13. Select Holiday Schedule Window

- b. Select the Holiday Schedule that you want to assign.
 - c. Click "Add>" to assign the selected Holiday Schedule to the Master Schedule. The assigned Holiday Schedule appears in the "Assigned" list along with the other assigned Holiday Schedules.
 - d. To unassign a Holiday Schedule, select the Holiday Schedule in the "Assigned" list and click "<Remove". The Holiday Schedule re-appears in the "Available" list.
 - e. Click "Select" when finished selecting the number of Holiday Schedules that you want to assign. The selected Holiday Schedules appear in the "Assign Holiday" list. Click "Cancel" to close the window without updating the selections made.
4. Assigning or Unassigning a Temporary Schedule (refer to **"Assign Temporary Schedule Section"** in Fig. 10)
 - a. Click "Select Temporary". The "Select Temporary Schedule" window appears; the list of all configured Temporary Schedules are displayed in the "Available" list.

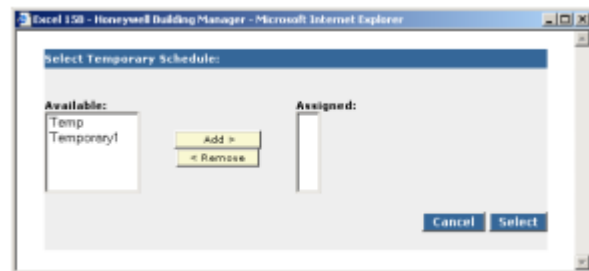


Fig. 14. Select Temporary Schedule Window

- b. Select the Temporary Schedule that you want to assign.
- c. Click "Add>" to assign the selected Temporary Schedule to the Master Schedule. The assigned Temporary Schedule appears in the "Assigned" list along with the other assigned Temporary Schedules.
- d. To unassign a Temporary Schedule, select the Temporary Schedule in the "Assigned" list and click "<Remove". The Temporary Schedule re-appears in the "Available" list.
- e. Click "Select" when finished selecting the number of Temporary Schedules that you want to assign. The selected Temporary Schedules appear in the "Assign Temporary" list. Click "Cancel" to close the window without updating the selections made.

IMPORTANT

You can also assign or unassign multiple Holiday or Temporary Schedules.

- To Select Consecutive Holiday or Temporary Schedules: Click the first Holiday or Temporary Schedule, press and hold down <Shift> and then click the last Holiday or Temporary Schedule in the list. Release <Shift> after selecting all the Holiday or Temporary Schedules.
- To Select Non-consecutive Holiday or Temporary Schedules: Press and hold down <Ctrl> and then click each Holiday or Temporary Schedule. Release <Ctrl> after selecting the required number of Holiday or Temporary Schedules.

5. Click "Save". The new Master Schedule is updated in Excel 15B and also appears in the list under the "Global Schedules" icon. Click "Undo" to cancel all the latest selections and entries.

Deleting the Assigned Holiday and Temporary Schedules

To delete a Holiday or Temporary Schedule, select the schedule and click its corresponding "Delete" option (refer to "Assign Holiday Section" and "Assign Temporary Section" in Fig. 10).

NOTE: You can also delete multiple Holiday or Temporary Schedules. Use <Shift> to select multiple consecutive Holiday or Temporary Schedules and <Ctrl> to select multiple non-consecutive Holiday or Temporary Schedules.

Creating a Shifted Schedule

Minimum Access Level Required: Assistant Operator

Procedure

1. Follow steps 1-4 mentioned in "General Procedure" (refer to "Creating a Global Schedule" on page 17). The "Global Schedule::Create New Global Schedule" page is displayed with the Shifted Schedule's default configuration details.



Fig. 15. Global Schedule::Create New Global Schedule Page - Shifted Schedule

2. From the "Follow Schedule Of" list, select the Master Schedule that the new Shifted Schedule must follow.
3. From the "Shift Events By" options, select the "Occupied" offset time, "Unoccupied" offset time and "Standby" offset time. The "Shift Events By" displays the "Occupied", "Unoccupied" and the "Standby" offset time lists.

4. Click "Save". The Shifted Schedule is updated in Excel 15B and also appears in the list under the "Global Schedules" icon. Click "Undo" to cancel all the latest selections and entries.

Assigning a Temporary Schedule to the Shifted Schedule

If you want to assign a Temporary Schedule to the Shifted Schedule, click "Assign Temporary" and follow the procedure mentioned in "Pt.4-Assigning or Unassigning a Temporary Schedule" (refer to "Creating a Master Schedule" on page 17).

IMPORTANT

An event whose start time becomes invalid after the shift will not be considered. The previous state will be continued by the device. Consider the following scenario: the active Weekly Schedule is 'Weekly1'. One of the events ('Event1') start time in the daily schedule "Monday" is 23 hrs and 50 mins. 'Weekly1' is assigned to 'Master1' and 'Shifted1' follows 'Master1'. 'Shifted1' is configured to shift all types of events of 'Master1' by +60 mins. When 'Shifted1' has to shift 'Event1', the Shifted Schedule will start at 23:50+60 mins = 24:50. But 24:50 is an invalid time in a day. So, 'Event1' will never occur for 'Shifted1'.

Creating a Follower Schedule

Minimum Access Level Required: Assistant Operator

Procedure

1. Follow steps 1-4 mentioned in "General Procedure" (refer to "Creating a Global Schedule" on page 17). The "Global Schedule::Create New Global Schedule" page is displayed with the Follower Schedule's default configuration details.

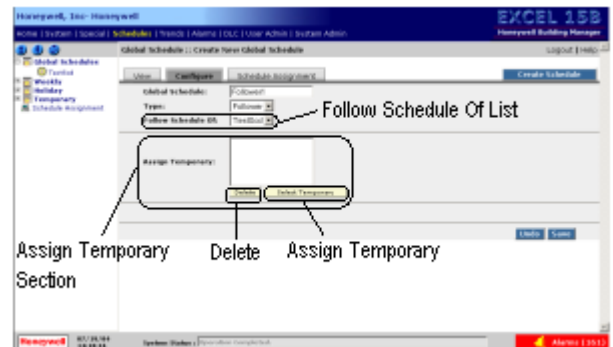


Fig. 16. Global Schedule::Create New Global Schedule Page - Follower Schedule

2. From the "Follow Schedule Of" list, select the Master Schedule that the new Follower Schedule must follow.
3. To assign a Temporary Schedule, click "Assign Temporary" and follow the procedure mentioned for "Pt.4-Assigning or Unassigning a Temporary Schedule" (refer to "Creating a Master Schedule" on page 17).
4. Click "Save". The Shifted Schedule is updated in Excel 15B and also appears in the list under the "Global Schedules" icon. Click "Undo" to cancel all the latest selections and entries.

Viewing a Global Schedule

Minimum Access Level Required: Assistant Operator

NOTE: You can also view a Global Schedule off-line from LonSpec™. For more information, refer to LonSpec™ online help.

Procedure

- Click “Schedules” on the Excel 15B menu bar. By default, the “Global Schedules::View” page is displayed with the details of the first Global Schedule.

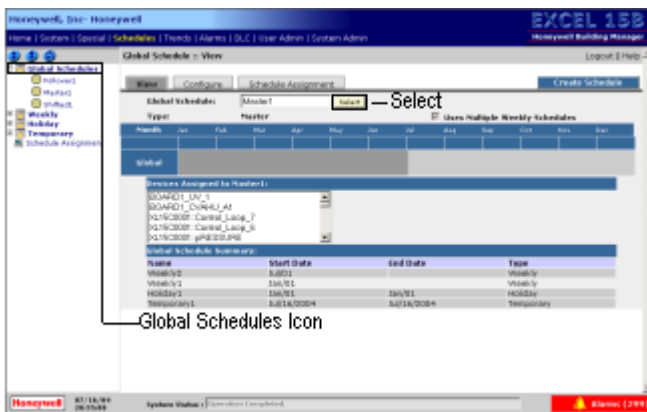


Fig. 17. Global Schedules::View Page

- Other Methods of Viewing a Global Schedule
 - Choosing from the “Select Global Schedule From List” window:
 - On the “Global Schedules::View” page, click “Select” that is adjacent to the “Global Schedule” box.
 - Choose the Global Schedule that you want to view from the list displayed in the “Select Global Schedule From List” window.
 - Click “Select” to view the schedule details on the “Global Schedules::View” page.
 - Choosing from the list displayed under “Global Schedules” icon: On the “Global Schedules::View” page, select the Global Schedule that you want to view by navigating through the list displayed under the “Global Schedules” icon.

Updating a Global Schedule

Minimum Access Level Required: Assistant Operator

Procedure

- Click “Schedules” on the Excel 15B menu bar. The “Global Schedule::View” page is displayed (refer to Fig. 17) with the details of the first Global Schedule.
- Click the “Configure” tab to modify the Global Schedule details on the “Global Schedule::Configure” page.

NOTE: Other Methods of Selecting a Global Schedule

- From the list displayed under the “Global Schedules” icon, choose the global schedule that you want to modify.
 - Click “Select” on the “Global Schedule::View” page to choose a global schedule from the “Select Global Schedule From List” window. The selected global schedule name appears in the “Global Schedule” box.
- After modifying the Global Schedule, click “Save” to update the Schedule. Click “Undo” to cancel all the latest selections and entries.

DELETING A GLOBAL SCHEDULE

To remove a Global Schedule from Excel 15B, click “Delete Schedule” on the “Global Schedule::Configure” page. The schedule is also removed from the list under the “Global Schedules” icon.

Important

Before deleting a Global Schedule, ensure that it is not assigned to any device or object. The following error message is displayed if you try to delete a Global Schedule that is assigned to a device or object - “You cannot delete this Global Schedule now as this is being used by a device now”.

- In case of a Master Schedule, in addition to the above-mentioned points, ensure that there are no Shifted and Follower Schedules following the Master Schedule. To delete the Master Schedule, you must first unassign all the devices and object from it and also delete the associated Shifted and the Follower schedules.
- In case of Shifted and Follower Schedules, all the device assignments must be removed. Temporary Schedules assigned to these schedules are automatically unassigned and their association with the Master Schedule is also released.

Assigning a Global Schedule to a Device

Minimum Access Level Required: Assistant Operator

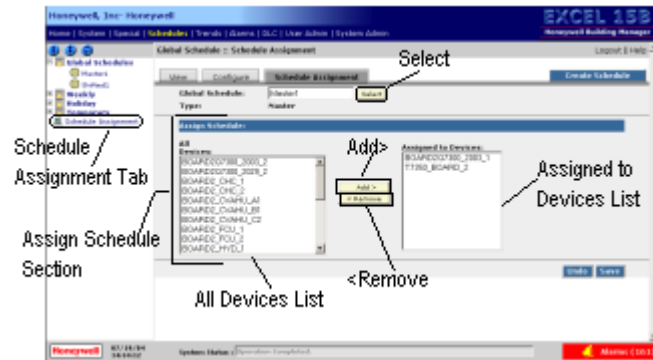
NOTE: You can also assign a Global Schedule to devices off-line from LonSpec™. For more information, refer to LonSpec™ online help.

IMPORTANT

You must unassign all the devices assigned to the Master, Shifted and Follower schedules before deleting the respective schedules.

Procedure

1. Click “Schedules” on the Excel 15B menu bar. The “Global Schedule::View” page is displayed (refer to Fig. 17) with the details of the first Global Schedule.
2. Click the “Schedule Assignment” tab to view the “Global Schedule::Schedule Assignment” page. By default, the “Global Schedule” box displays the first Global Schedule name. “Type” displays the type of Global Schedule that is being assigned.

**Fig. 18. Global Schedule::Schedule Assignment Page**

3. Assign the Global Schedule to a device or click “Select” to select another schedule from the “Select Global Schedule From List” window.

NOTE: You can also select the schedule directly from the list displayed under the “Global Schedules” icon.

4. After selecting the Global Schedule, choose the device or the object from the “All Devices” list. The list displays only the unassigned devices and objects. The XL 15C object and its loop is separated by ':'. For example, XL15C_1::SSLoop3.
5. Click “Add>” to add the device to the “Assigned to Devices” list. The list also comprises of device or object loops that are already assigned the selected schedule.
6. Click “<Remove” to remove the selected device or object loop from the “Assigned to Devices” list. The unassigned device re-appears in the “All Devices” list.

NOTE: You can also assign or unassign schedules to multiple devices. Use <Shift> to select multiple consecutive devices or objects and <Ctrl> to select multiple non-consecutive devices or objects.

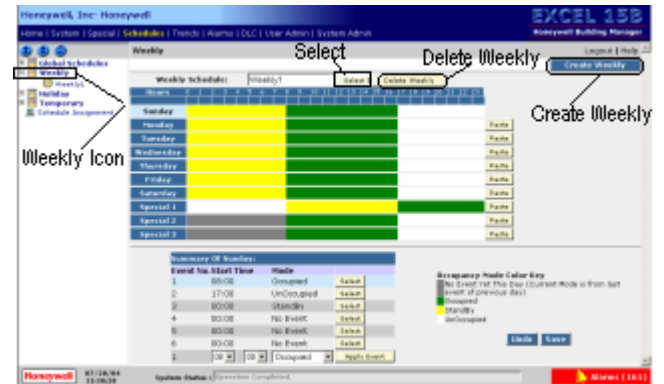
7. Click “Save” to update the schedule assignment. Click “Undo” to cancel all the latest selections and entries.

Creating a Weekly Schedule

Minimum Access Level Required: Assistant Operator

Procedure

1. Click “Schedules” on the Excel 15B menu bar. The “Global Schedule::View” page is displayed (refer to Fig. 17).
2. Click the “Weekly” icon. The “Weekly” page is displayed with the details of the first Weekly Schedule.

**Fig. 19. Weekly Page**

3. Click “Create Weekly” displayed on the top right corner of the page. The “Weekly::Create New Weekly” page is displayed.

**Fig. 20. Weekly::Create New Weekly Page**

- **If You are Creating the First Weekly Schedule**
Clicking the “Weekly” icon directly displays the “Weekly::Create New Weekly” page. The following message appears on top of the page - **“No Weekly Schedules configured in the system”**.

4. Overwrite the default schedule name in the “Weekly Schedule” box with a new name.

NOTE: The section that follows displays a default pictorial representation of a Weekly Schedule (refer to Fig. 20). It is automatically updated whenever the Weekly Schedule’s events and occupancy modes are modified. The “Occupancy Mode Color Key” shows the occupancy modes and the colors that are used to identify them.

5. Scheduling Events for a Day

Each Weekly Schedule can have six events scheduled to occupy different occupancy modes at different start times. The unconfigured events display the "No Event" occupancy mode. You can retain an event's default configuration or create a new configuration with a different occupancy mode and start time.

- To schedule events for a day, click one of the days in the pictorial representation. The part of the row displaying the day name is highlighted. The row "Sunday" is selected by default and the "Summary" section (Summary of Sunday) displays the summary of all the six events for "Sunday".

NOTE: Best practices dictate that at least one event be scheduled for each day of the week.

- Click in the first row (Event No. 1) in the "Summary" section. The selected event number appears in the last row. Each event record occupies a row and every column heading identifies with a section of the record. You need to select the options on the last row for scheduling an event.

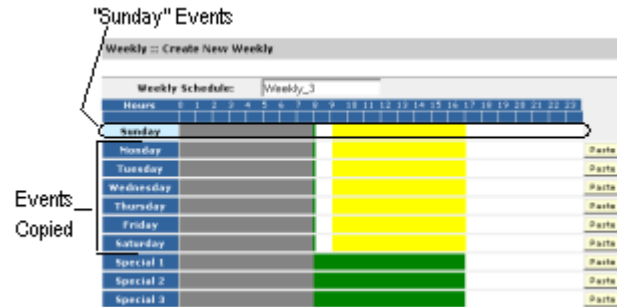
NOTE: The scheduling of events need not be in an order. This procedure is only for your understanding.

- Select the schedule start time from the lists under "Start Time" that represent hours (0-23) and minutes (0-59).
- Select the mode of operation from the list under "Mode".
- Click "Apply Event". The event record is saved and appears in the first row of the "Summary" section. The pictorial representation is simultaneously updated to display the selected occupancy mode color.
- Repeat the procedure for scheduling other events in the Weekly Schedule. The events configured for a particular day are displayed in the row pointing to that day in the pictorial representation. Repeat the procedure to configure the events for all the other days including the special days.
- Click "Save" when you have finished scheduling events for all the days. The new Weekly Schedule is updated in Excel 15B and also appears in the list under the "Weekly" icon.
Click "Undo" to cancel all the latest selections and entries.

Copying Scheduled Events

To copy the scheduled events of a particular day onto the other days, click in the main row (the row that has the events that needs to be copied) and then click "Paste" for any other day. For example, if you want to copy the scheduled events of "Sunday" onto "Monday" - "Saturday", do the following:

First click in "Sunday" to highlight it. Then click "Paste" that is adjacent to all the other days starting with "Monday" to "Saturday". This action overwrites all the events occupying the respective time slots on these days.



NOTE: After creating a Weekly, Holiday, or Temporary Schedule, click the "Refresh Schedule Menu" icon if the new schedule does not appear in the list under the respective "Weekly", "Holiday", or "Temporary" icons.



Viewing and Updating a Weekly Schedule

Minimum Access Level Required: Assistant Operator

IMPORTANT

The following error message is displayed if you try to delete a Weekly Schedule that is assigned to a Master Schedule - "You cannot delete this Weekly Schedule now as it is being used by a Global Schedule now". In other words, prior to deleting a Weekly Schedule, unassign it from the Master schedule that is using it and then delete the Weekly Schedule.

Procedure

- Click "Schedules" on the Excel 15B menu bar. By default, the "View" tab is enabled displaying the details of the first Global Schedule on the "Global Schedules::View" page.
- Click the "Weekly" icon and select a Weekly Schedule from the list displayed. The selected Weekly Schedule details appear on the "Weekly" page (refer to [Fig. 19](#)).

NOTE: You can also view and update another Weekly Schedule. Click "Select" (refer to [Fig. 19](#)) and choose the Weekly Schedule that you want to update from the list displayed in the "Select Weekly From List" window.

- Make the required changes to the selected Weekly Schedule. You can do the following:
 - Modify the existing event configuration for a particular day.
 - Copy the scheduled events of a particular day onto other days in the selected Weekly Schedule. For more information on the above-mentioned tasks, refer to ["Creating a Weekly Schedule" on page 21](#).
- Click "Save" to update the Weekly Schedule. Click "Undo" to cancel all the latest selections and entries.

DELETING A WEEKLY SCHEDULE

Click “Delete Weekly” on the “Weekly” page to remove the selected Weekly Schedule from Excel 15B and also from the list displayed under the “Weekly” icon.

Creating a Holiday Schedule

Minimum Access Level Required: Assistant Operator

Procedure

1. Click “Schedules” on the Excel 15B menu bar. The “Global Schedule::View” page is displayed (refer to Fig. 17).
2. Click the “Holiday” icon. The “Holiday Schedule” page is displayed with the details of the first Holiday Schedule.

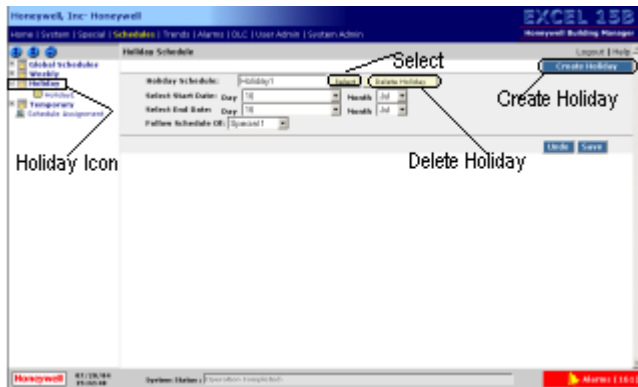


Fig. 21. Holiday Schedule Page

3. Click “Create Holiday” displayed on the top right corner of the page. The “Holiday Schedule::Create New Holiday” page is displayed.

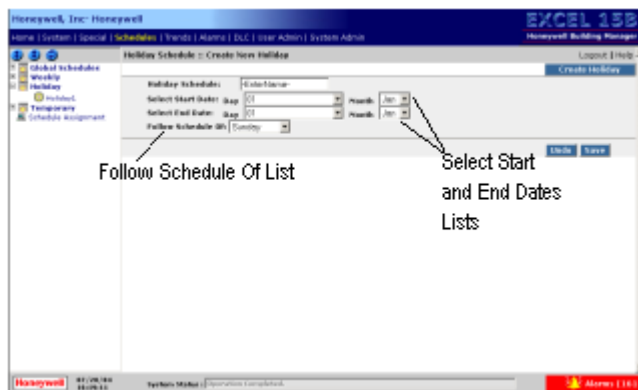


Fig. 22. Holiday Schedule::Create New Holiday Page

- **If You are Creating the First Holiday Schedule** Clicking the “Holiday” icon directly displays the “Holiday::Create New Holiday” page. The following message appears on top of the page - “**No Holiday Schedules configured in the system**”.

4. Overwrite the default schedule name in the “Holiday Schedule” box with a new name.
5. Selecting the Schedule Start and End Dates Select the day and month for the Holiday Schedule from the respective “Day” and “Month” lists adjacent to the “Select Start Date” and “Select End Date”. The start date is the day of the month the Holiday is to start and the end date is the last day of the Holiday.

NOTE: For a single day, enter the same date for both the start and end dates. For more information on the options available in the “Day” list, refer to **Day List** on page 24.

6. From the “Follow Schedule Of” list, select the day that the Holiday Schedule must follow. The “Follow Schedule Of” list displays all the weekdays including the special days. During the specified period, the Holiday Schedule will follow the schedule of the selected day that is a part of the active Weekly Schedule.
7. Click “Save” when you have finished configuring the Holiday Schedule. The new Holiday Schedule is updated in Excel 15B and also appears in the list under the “Holiday” icon. Click “Undo” to cancel all the latest selections and entries.

DAY LIST

Description

The following table provides a brief description of each day option.

Table 6. Day List

Day	What You can do...
“Dates 01-31”	Select any date (1st to 31st)
“Last Day of the Month”	Select this option to configure the Holiday Schedule on the last day of the month, every year (this is irrespective of the date that points to the last day).
“First Sunday” - “First Saturday”	Select one of these options to configure the Holiday Schedule on a particular day in the first week of the selected month. For example, select “First Monday” for Excel 15B to assign the Holiday Schedule on the monday of the first week in the selected month.
“Second Sunday - “Second Saturday”	Select one of these options to configure Holiday Schedule on a particular day in the second week of the selected month. For example, select “Second Monday” for Excel 15B to assign the Holiday Schedule on the monday of the second week in the selected month.
“Third Sunday” - “Third Saturday”	Select one of these options to configure the Holiday Schedule on a particular day in the third week of the selected month. For example, select “Third Monday” for Excel 15B to assign the Holiday Schedule on the monday of the third week in the selected month.
“Fourth Sunday” - “Fourth Saturday”	Select one of these options to configure the Holiday Schedule on a particular day in the fourth week of the selected month. For example, select “Fourth Monday” for Excel 15B to assign the Holiday Schedule on the monday of the fourth week in the selected month.

Table 6. Day List (Continued)

Day	What You can do...
<p>"Fifth Sunday"</p> <p>- "Fifth Saturday"</p>	<p>Select one of these options to configure the Holiday Schedule on a particular day in the fifth week of the selected month. For example, select "Fifth Monday" for Excel 15B to assign the Holiday Schedule on the monday of the fifth week in the selected month.</p>
<p>"Last Sunday"</p> <p>- "Last Saturday"</p>	<p>Select one of these options to configure the Holiday Schedule to be on the last weekday of the month. For example, select "Last Monday" for Excel 15B to assign the Holiday Schedule on the last monday of the selected month.</p>

Viewing and Updating a Holiday Schedule

Minimum Access Level Required: Assistant Operator

IMPORTANT

The following error message is displayed if you try to delete a Holiday Schedule that is assigned to a Master Schedule - "You cannot delete this Holiday Schedule now as it is being used by a Global Schedule now". In other words, prior to deleting a Holiday Schedule, unassign it from the Master schedule that is using it and then delete the Holiday Schedule.

Procedure

1. Click “Schedules” on the Excel 15B menu bar. By default, the “View” tab is enabled displaying the details of the first Global Schedule on the “Global Schedules::View” page.
2. Click the “Holiday” icon and select a Holiday Schedule from the list displayed. The selected Holiday Schedule details appear on the “Holiday Schedule” page (refer to Fig. 21).

NOTE: You can also view and update another Holiday Schedule. Click “Select” (refer to [Fig. 21](#)) and choose the Holiday Schedule that you want to update from the list displayed in the “Select Holiday From List” window.

3. Make the required changes to the selected Holiday Schedule (you can also assign the Holiday Schedule to follow a different Weekly Schedule). For more information, refer to [“Creating a Holiday Schedule” on page 23](#).
4. Click “Save” to update the Holiday Schedule. Click “Undo” to cancel all the latest selections and entries.

DELETING A HOLIDAY SCHEDULE

Click “Delete Holiday” on the “Holiday Schedule” page to remove the selected Holiday Schedule from Excel 15B and also from the list displayed under “Holiday” icon.

Creating a Temporary Schedule

Minimum Access Level Required: Assistant Operator

Procedure

1. Click “Schedules” on the Excel 15B menu bar. The “Global Schedule::View” page is displayed (refer to [Fig. 17](#)).
2. Click the “Temporary” icon. The “Temporary” page is displayed with the details of the first Temporary Schedule.

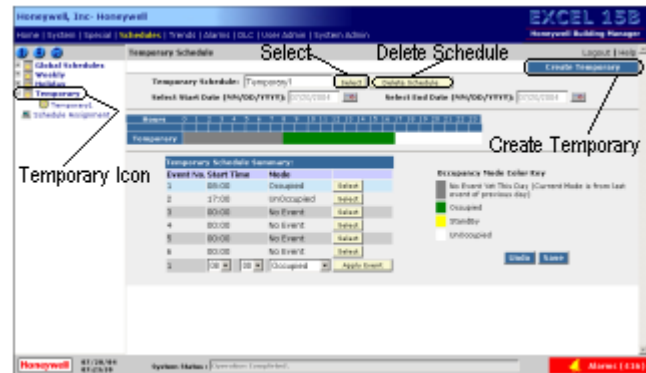


Fig. 23. Temporary Schedule Page

- Click “Create Temporary” displayed on the top right corner of the page. The “Temporary Schedule::Create New Temporary” page is displayed.

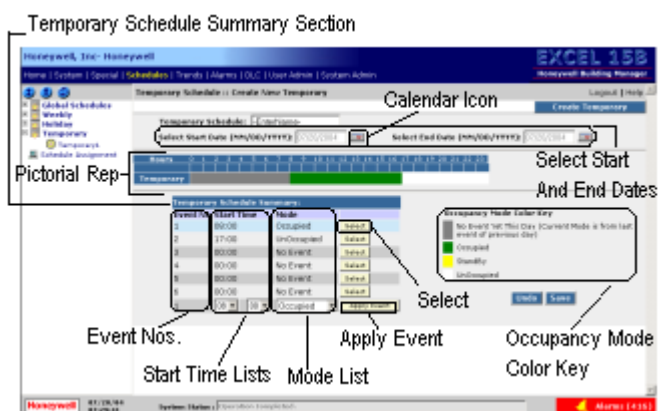


Fig. 24. Temporary Schedule::Create New Temporary Page

- ***If You are Creating the First Temporary Schedule***
*Clicking the “Temporary” icon directly displays the “Temporary::Create New Temporary” page. The following message appears on top of the page - “** No Temporary Schedules configured in the system”.*
4. Overwrite the default schedule name in the “Temporary Schedule” box with a new name.
 5. Selecting the Schedule Start and End Dates
Click the “Calendar” icon and select the start and end dates from the calendar displayed. The start date is the day of the month the exception is to start and the end date is the last day of the exception. The selected start and end dates are automatically displayed in the “Select Start Date” and “Select End Date” boxes in a mm/dd/yyyy format.

NOTE: For a single day, enter the same date for both the start and end dates. The following message is displayed if the date and time you have entered in the "To Date/Time" box occurs before or coincides with the date and time that you have entered in the "From Date/Time" box - **"The Date you have entered in the "To Date/Time" is less than or equal to "From Date/Time"**.

The section that follows displays default pictorial representation of a Temporary Schedule. Each Temporary Schedule can have six events scheduled to occupy different occupancy modes at different start times. Those events that are not configured display the "No Event" occupancy mode. You can retain an event's default configuration or create a new configuration with a different occupancy mode and start time. The pictorial representation will automatically get updated to display the new configuration. The "Occupancy Mode Color Key" shows the list of occupancy modes and the colors that are used to identify them.

6. Scheduling TOD Events
The "Temporary Schedule Summary" section displays the summary of all the six events. Each event record occupies a row and every column heading identifies a section of the record. You must use the options on the last row to create or modify an event configuration.
7. Configuring the First Event
To schedule the first event in a Temporary Schedule, click in the first row (event record) in the "Temporary Schedule Summary" section. The event number (1) appears in the last row.
8. Follow steps **5.c-5.e** mentioned for **"Scheduling Events for a Day"** (refer to **"Creating a Weekly Schedule" on page 21**).
9. Follow the above mentioned procedure to configure other events.
 - **Important**
 - An event can have only one occupancy mode.
 - Two events cannot have same start time. This is irrespective of their occupancy modes.
 - You cannot configure two different events to occupy two different occupancy modes at the same start time.
10. Click "Save" when you have finished scheduling all the events. The new Temporary Schedule is updated in Excel 15B and also appears in the list under the "Temporary" icon.
Click "Undo" to cancel all the latest selections and entries.

NOTE: It is not mandatory to configure all six events in a Temporary Schedule. For example, you can configure the schedule to be in "UnOccupied" state from 00:00hrs to 23:59hrs.

Viewing and Updating a Temporary Schedule

Minimum Access Level Required: Assistant Operator

IMPORTANT

*The following error message is displayed if you try to delete a Temporary Schedule that is assigned to a Global Schedule - **"You cannot delete this Temporary Schedule now as it is being used by a Global Schedule now"**. In other words, prior to deleting a Temporary Schedule, unassign it from the Global schedule that is using it and then delete the Temporary Schedule.*

Procedure

1. Click "Schedules" on the Excel 15B menu bar. By default, the "View" tab is enabled displaying the details of the first Global Schedule on the "Global Schedules::View" page.
2. Click the "Temporary" icon and select a Temporary Schedule from the list displayed. The selected Temporary Schedule details appear on the "Temporary Schedule" page (refer to [Fig. 23](#)).

NOTE: You can also view and update another Temporary Schedule. Click "Select" (refer to [Fig. 23](#)) and choose the Temporary Schedule from the list displayed in the "Select Temporary From List" window.

3. Make the required changes to the selected Temporary Schedule. You can do the following:
 - Change the start and end dates for the Temporary Schedule.
 - Configure new events or modify the start time and mode of the existing events. For more information on performing the above-mentioned tasks, refer to **"Creating a Temporary Schedule" on page 24**.
4. Click "Save" to update the Holiday Schedule. Click "Undo" to cancel all the latest selections and entries.

DELETING A TEMPORARY SCHEDULE

Click "Delete Schedule" on the "Temporary Schedule" page to remove the selected Temporary Schedule from Excel 15B and also from the list displayed under "Temporary" icon.

Viewing DLC Configuration

Minimum Access Level Required: Assistant Operator

Description

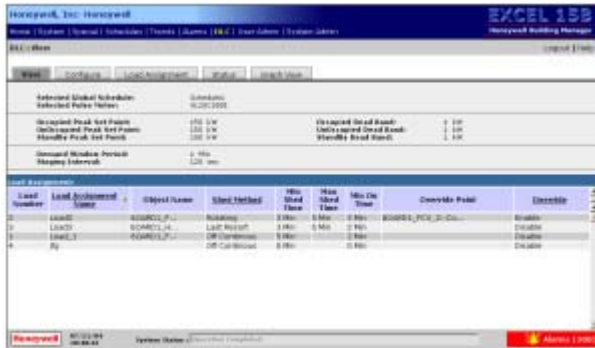
Click "DLC" on Excel 15B menu bar to configure DLC, configure loads, view configuration summary, view DLC status and graph. This section describes viewing DLC configuration, DLC load status and DLC graph. To perform the configuration tasks, refer to **"Demand Limit Control" on page 44**.

You can view the current DLC configuration as a disabled text followed by the load assignment details displayed in a tabular format. You can sort the load assignments based on the following:

- Load Assignment Name
- Shed Method
- Override Conditions

Procedure

1. Click "DLC" on the Excel 15B menu bar. By default, the "DLC::Status" page is displayed with the current status details of all the load assignments.
2. Click the "View" tab to view the "DLC::View" page. All loads assigned to different external objects are displayed.

**Fig. 25. DLC::View Page****Sorting Load Assignments**

By default, the load assignments are sorted on the "Load Assignment Name".

Table 7. Sorting Load Assignments

Sort by...	Click to...
"Load Assignment Name"	Sort the load assignments in the ascending order of the load names.
"Shed Method"	Sort the load assignments in the ascending shedding order.
"Override Condition"	Sort the load assignments on the enable or disable override condition.

Viewing DLC Load Status

Minimum Access Level Required: Assistant Operator

Description

You can view the DLC service status that includes all load assignments details. DLC status is updated at the rate of the staging interval. The following are displayed as read only text:

- Current KW Setpoint Value: Displays the setpoint value based on the current occupancy state.
- Current KW Value: Displays the current power consumption reported by Excel 15C.
- Current Mode: Displays the current DLC mode. At any point in time, DLC can either be in the "Normal", "Reloading Configuration", or "Disabled" mode.

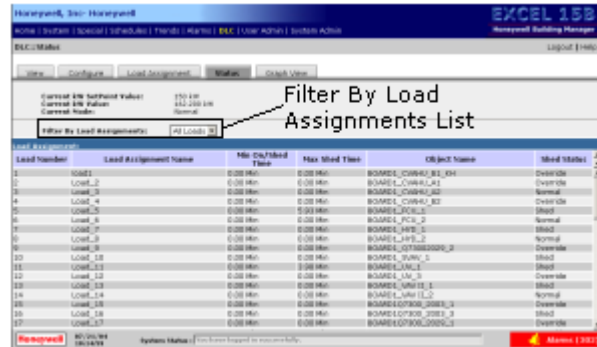
Load Assignment Based Object Status

It displays the status of an individual load assignment or all load assignments. If the DLC load configuration is modified, then the load assignment status is displayed as "Normal". Excel 15B restores all the loads assignments immediately by issuing a restore command even if the load assignments are in the shed state. After re-loading the configuration, all the Minimum On/Shed timers are also reset.

NOTE: When DLC is in the "Reloading Configuration" mode, only the status of the load assignments are displayed. It implies that the respective load objects are not displayed.

Procedure

1. Click "DLC" on the Excel 15B menu bar. The "DLC::Status" page is displayed with the current status details of all the load assignments.

**Fig. 26. DLC::Status Page**

You can also view the status of an individual load assignment or all the load assignments. From the "Filter By Load Assignments" list, select the load whose status you want to view.

"Load Number" represents the number of the load that is configured. It is used to uniquely identify the load.

The following are displayed as column headings:

Table 8. Load Assignments

Column Headings	Description
"Load Number"	Displays the number of the load that is configured. Each load number is unique and is used to identify the load.
"Load Assignment Name"	Displays the name assigned to the load at the time of configuring the load assignment.
"Min On/Shed Time"	Displays the minimum period for which the load is active or shed.
"Max Shed Time"	Displays the maximum period for which the load is shed or made inactive.
"Object Name"	Displays the external object to which the current load is assigned.
"Shed Status"	Displays the status of the load that is shed. At any point in time, a load can either be in the 'Normal', 'Shed', or 'Overridden' state.

Viewing DLC Graph

Minimum Access Level Required: Assistant Operator

Description

Excel 15B provides DLC graph view for a maximum of 31 days. The graph and data logging reflects the current DLC configuration details and further helps you to:

- Identify the period when there is maximum power consumption.
- Analyze the power consumption patterns in the building and predict power consumptions.
- Identify the period when the power consumption exceeds the peak setpoint limits.

You can monitor the energy consumption against a peak setpoint for a specified period and simultaneously plot the variations on a graph. The X-axis represents the time interval and the Y-axis represents the peak setpoint levels.



CAUTION

When you change the DLC configuration or any load assignment configuration, the DLC graphing and DLC KW data logging (into the .csv file) restart. All the previous accumulated graph data is lost.

Procedure

1. Click “DLC” on the Excel 15B menu bar. By default, the “DLC::Status” page is displayed.
2. Click the “Graph View” tab to view the “DLC::Graph View” page.

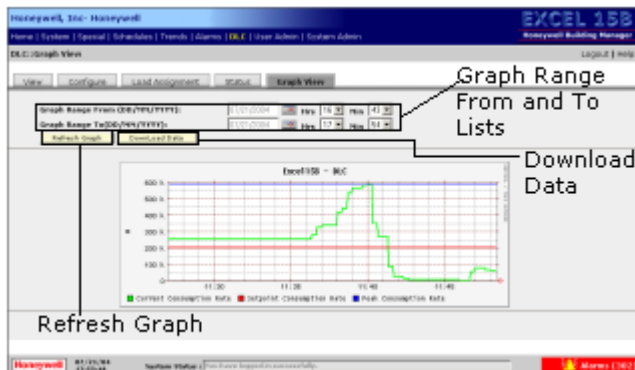


Fig. 27. DLC::Graph View Page

3. Select the start and end dates from the respective calendars of “Graph Range From” and “Graph Range To” lists.

NOTE: The selected end date must always be greater than the selected start date.

4. Select the start and end time from the respective “Hrs” and “Min” lists. The variations in the power consumptions are captured for the specified period and plotted on the graph. The sampling interval is equivalent to the DLC service staging interval.
5. Click “Refresh Graph”. The “DLC::Graph” page is refreshed to display the latest details. The following are plotted on the graph:
 - Current KW: Identified by a green legend
 - Current Setpoint KW: Identified by a red legend
 - Peak Current KW for the selected Date and Time: Identified by a blue legend.

Downloading DLC Log

Minimum Access Level Required: Assistant Operator

Procedure

1. Click “DLC” on the Excel 15B menu bar. By default, the “DLC::Status” page is displayed.
2. Click the “Graph View” tab to view the “DLC::Graph View” page.
3. Click “Download Data” to download all the samples. The “File Download” window appears.

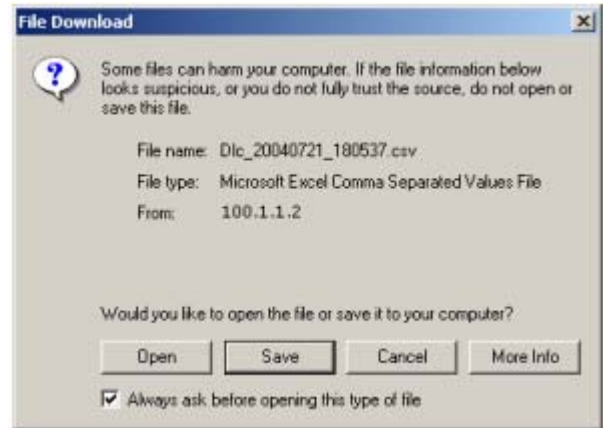


Fig. 28. File Download Window

You can do one of the following: open the DLC log file from its current location, save it on your PC, or cancel the download process.

4. If you choose “Save”, then the DLC log file is copied to your PC and saved in an excel sheet.

Viewing Alarm Conditions

Minimum Access Level Required: Assistant Operator

Click “Alarms” on the Excel 15B menu bar to view and manage alarms including configured alarms. The “Alarms” page displays all the generated alarm conditions from Excel 15B. For more information on configuring alarms and assigning alarms to e-mail recipients, refer to [“Configuring Alarms” on page 50](#).

Alarm Mechanisms

Alarm mechanisms are used to report the occurrence and history of certain events. The alarm mechanisms supported by Excel 15B include: the occurrence of a condition or failure, its return to normal, acknowledgement that the condition or failure exists, the history of these events, viewing and time stamping.

Each NX VFD, XL 10 and XL 15 devices define their own alarms. They monitor various conditions and generate alarms when these conditions exceed their limits. Excel 15B has a predefined set of alarms and also allows customizing alarm types. The source for these alarms are the system (Excel 15B), supported devices and devices’ network points.

Excel 15B generates alarms when devices fail to communicate with the system or if the device is removed from the network. In such cases, you must delete the device from

the “Device List” to eliminate any future alarms. During initialization, Excel 15B builds a device list of all LonWorks® compatible devices on the network. Periodically it updates the list to find new devices that may be added during “Device Discovery” Operation. Excel 15B polls the devices every 15 seconds for alarm data.

The following table lists the Excel 15B generated alarms that are displayed on the “Alarms” page and their description:

Table 9. Excel 15B Generated Alarms.

Excel 15B Alarms	Description
Node clash on <subnet>/<node id>	Generated when more than two controllers have the same domain/subnet/node ID.
Illegal access attempted	Generated when user tries to access Excel 15B with an illegal password.
KW demand exceeded	Generated by the DLC service when the power consumption of the building is above the specified set point and there are no loads to shed.
Time sync failed	Generated when the internet time synchronization fails. The reasons can be non-availability of time server or communication problem with the time server.
<Service Restarted> <ul style="list-style-type: none"> Elonserver restarted Alarm_reporter restarted Default_trendmaker restarted User_trendmaker restarted Scheduler restarted DLC_service restarted Httpd restarted 	Generated when Excel 15B services are restarted by the Excel 15B health monitor. The following are the services that run in Excel 15B: <ul style="list-style-type: none"> Elon Server: Lon communication service Alarm_reporter: Alarm reporting service Default_trendmaker: Default Trend service User_trendmaker: User Defined Trend service Scheduler:- Scheduler service DLC_service: Demand Limit Control service Httpd: Web server
Non-Zero length domain not found	This alarm is generated when Excel 15B tries to automatically determine the domain of the controllers in the network to which it is connected.
Node off-line	Generated when the controller goes off-line. The alarm name will contain the name of the controller that went off-line. This is not an Excel 15B alarm.
Disk Full	Generated when 85% of the storage area (disk) is full. You need to contact the Honeywell Support Team to free the storage area of unwanted files.

Description

The “Alarms” page gives the summary or the present status of all alarm records. You can view a maximum of 5,000 alarm records on the “Alarms” page spanning across 50 pages. Each page displays a maximum of 100 alarm records. The alarm database can store up to 5,000 alarm records. When the alarm database is full, a new alarm record overwrites the oldest alarm record.

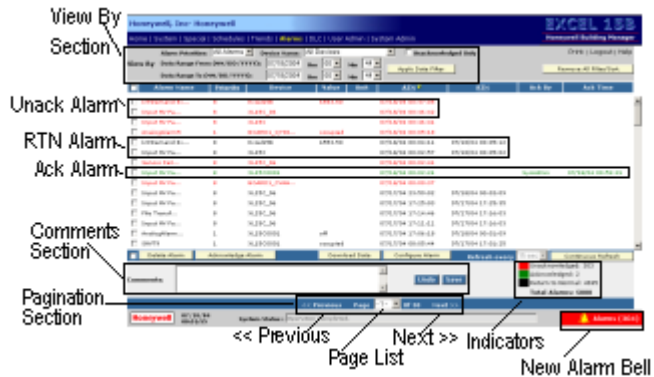


Fig. 29. Alarms Page

When an alarm condition is generated, the alarm record is added to the table on the “Alarms” page. Once recorded, the alarm data will remain in the alarm log until deleted or overwritten. No further alarm annunciation will occur until a Return to Normal (RTN) condition is logged. These alarm records can be sorted based on various filter criteria specified in the “View By” section. For more information, refer to [“Sorting Alarms Based on Filter Criteria” on page 29](#). The concerned e-mail recipient is notified about any new alarm condition.

All the generated alarm conditions are displayed in a tabular format. Each row displays an alarm record and every column heading identifies with a section of the record. For more information on each column heading in the tabular format, refer to [“Mapping Column Headings” on page 29](#).

After viewing an alarm condition, you can do the following:

- Acknowledge an alarm condition. For more information, refer to [“Acknowledging an Alarm Condition” on page 30](#).
- Enter, modify, or delete comments for an alarm condition. For more information, refer to [“Entering and Modifying Comment for an Alarm Condition” on page 31](#).
- Download the alarm log to your personal computer (PC) in a comma delineated (.csv) format. For more information, refer to [“Downloading Alarm Log” on page 31](#).
- Delete an individual or multiple alarm conditions (includes configured alarms). For more information, refer to [“Deleting an Alarm Condition” on page 31](#) and [“Downloading Alarm Log” on page 31](#).
- Print the alarm log. For more information, refer to [“Printing Alarm Log” on page 31](#).

You can also view the summary of all configured alarms. For more information, refer to [“Viewing Summary of Configured Alarm Conditions” on page 52](#).

The alarm data is continuously refreshed at the frequency set during customizing alarms. The refresh rate for Continuous Refresh can be set for "15 sec", "30 sec", "1 min" and "5 min". The default refresh rate is 15 seconds.



Fig. 30. Alarms Page - Continuous Refresh

NOTE: Continuous Refresh requires Excel 15B to poll all devices and this in turn may slow network communications.

Mapping Column Headings

The following table lists the column headings and the respective section that it maps with in an alarm record (refer to Fig. 29).

Table 10. Mapping of Column Headings

Column Heading	Section Identified in the Alarm Record
"Alarm Name"	Identifies the name of the generated alarm. Long alarm names are truncated and three dots are displayed at the end of the shortened name. For example, Sensor Fail... Position the mouse pointer on the alarm name to view its full name in a small box next to the mouse pointer (tool tip).
"Priority"	Identifies the priority level of the generated alarm. The alarm can be from a device or from a configured point.
"Device"	Identifies the device that generated the alarm
"Value"	Identifies the value of the data point at the time the alarm was generated, before the pre-delay time.
"Unit"	Identifies the unit of the value
"ATN"	Identifies the time stamp when the alarm was generated
"RTN"	Identifies the time stamp when the alarm returned to normal state even before being acknowledged.
"Ack By"	Identifies the user ID of the person who acknowledged the alarm.
"Ack Time"	Identifies the time when the generated alarm was acknowledged.

New Alarm Indicator

The "New Alarm" Indicator is located on the Bottom Footer or Status Bar and displays the updated list of unacknowledged alarms on the "Alarms" page. It stops swinging once all the alarms are acknowledged and displays the number of unacknowledged alarms as '0'.

Alarm Indicators

They are square colored boxes; each colored box displays the number of alarms in a particular state. In addition, the total number of alarms on the "Alarms" page is also displayed (refer to "Indicators" in Fig. 29).

- Red colored box: Displays the number of unacknowledged alarms.
- Green colored box: Displays the number of acknowledged alarms.
- Black colored box: Displays the number of alarms that have returned back to normal state.

Different Alarm States

At any given point of time, an alarm condition can be in one of the following states: RTN, acknowledged, or unacknowledged state. The following table provides a brief description of each such alarm state:

Table 11. Different Alarm States

Alarm State	Description
RTN or Alarm History	An RTN state is when the device returns from the alarm state to normal (within specified limits). The time and date on which the device returned to the normal state is displayed under the "RTN" column on the "Alarms" page. When a RTN condition occurs for any alarm event, the alarm is set inactive and will no longer appear in the active alarm view.
Unacknowledged	An unacknowledged alarm is the state when the alarm is first detected and is yet to be acknowledged. For more information on acknowledging an unacknowledged alarm, refer to "Acknowledging an Alarm Condition" on page 30 . All except tenant are authorized to acknowledge an alarm.
Acknowledged	An acknowledged alarm is the state when you have identified the alarm and taken corrective action against it. NOTE: Once you acknowledge the alarm, your user ID and time stamp is set and displayed for that alarm record on the "Alarms" page.

Sorting Alarms Based on Filter Criteria

Minimum Access Level Required: Assistant Operator

Description

Alarms can be sorted based on a single or a combination of filter criteria displayed in the "View By" section on the "Alarms" page (refer to the "View By" section in Fig. 29). Sorting alarms displays only selected alarm records; the details of which match the specified criteria. For example, sorting alarms based on the device name will allow the Operator to know which device is generating the maximum number of alarms. It will help in analyzing the situation and take corrective actions.

The following table lists the filter criteria and the outcome of the selections:

Table 12. Filter Criteria

Filter Criteria	Outcome of the Selection
“Alarm Priorities” (Default Selection - “All Alarms”)	Select the priority level from the “Alarm Priorities” list. The priority levels range from 1 to 8 (default is 8) and can be set for every device. Only those alarms matching the specified priority level are filtered and displayed.
“Device Name” (Default Selection - “All Devices”)	Select the device name from the “Device Name” list. The alarms are filtered and only those alarms generated by the selected device are displayed.
“Date Range From” (MM/DD/YYYY) (Default Selection - Current Date)	Specify the start date in the “Date Range From” (MM/DD/YYYY) box. The alarms are filtered and only those that are generated on or after the specified start date are displayed.
“Hrs” and “Min” (Default Selection - Current Time)	Select the time from the “Hrs” and “Min” lists. The alarms are filtered and only those that are generated at the specified time are displayed.
“Date Range To” (MM/DD/YYYY) (Default Selection - Current Date)	Specify the end date in the “Date Range To” (MM/DD/YYYY) box. The alarms are filtered and only those that were generated on or before the specified end date are displayed. NOTE: The date specified in the “Data Range To” box must be greater than or equal to the date specified in the “Data Range From” box.
“Hrs” and “Min” (Default Selection - Current Time)	Select the time from the “Hrs” and “Min” lists. The alarms are filtered and only those that are generated at the specified time are displayed.

NOTE: You need to click “Apply Date Filter” on the “Alarms” page if you want the alarms to be sorted based on the selected start and end dates and time interval.

To cancel the latest selections and entries, click “Reset All Filter” on the “Alarms” page. The filter criteria are reset to defaults.

Viewing an Unacknowledged Alarm Condition

Minimum Access Level Required: Assistant Operator

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
2. Select the “Unacknowledged Only” checkbox in the “View By” section (refer to [Fig. 29](#)).



Fig. 31. Alarms Page - Unacknowledged Only

The list of all unacknowledged alarms is displayed. It includes Excel 15B generated alarms, supported devices’ generated alarms and configured alarms. The unacknowledged alarms can further be filtered based on a single or a combination of filter criteria.

Acknowledging an Alarm Condition

Minimum Access Level Required: Assistant Operator

Important

You can acknowledge an alarm condition only if the System Administrator has selected the “Acknowledge/Delete Alarms” checkbox for your profile. For more information, refer to “Creating a User Profile” on page 35.

Description

Acknowledging an alarm condition signifies that you are aware of the unacknowledged alarm condition and will be taking appropriate action to resolve it. Acknowledging an unacknowledged alarm condition removes it from active alarm state.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
2. Select the checkbox adjacent to one or more unacknowledged alarms (refer to [Fig. 29](#)).
3. Click “Acknowledge Alarm”.

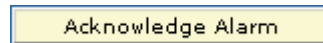


Fig. 32. Alarms Page - Acknowledge Alarm

To confirm alarm acknowledgement, the alarm record changes from red to green. Your user ID is also displayed in the same row under the “Ack By” column.

NOTE:

- The “Alarms” page is continuously refreshed. Click “Stop Refresh” to stop refreshing of the page and perform the intended task.
- “Acknowledge Alarm” is disabled after all the alarms are acknowledged. Alarms that return to normal state cannot be acknowledged.

Deleting an Alarm Condition

Minimum Access Level Required: Assistant Operator

- **Important**
You can delete only RTN and acknowledged alarm conditions. Once deleted, they do not appear on the “Alarms” page. Alarm logs should be downloaded prior to deleting alarm event records to ensure that the alarm history is preserved.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
2. Select the checkbox adjacent to one or more alarm records.
3. Click “Delete Alarm”.

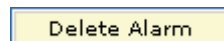


Fig. 33. Alarms Page - Delete Alarm

The deleted alarm is removed from Excel 15B alarm log database and is not displayed during the next refresh cycle. You can sort alarms based on a combination of filter criteria and then delete them.

NOTE: You can also select the checkbox adjacent to “Delete Alarm” to delete all the alarms on the “Alarms” page. Though all the alarm records are selected, you are informed that you can delete only acknowledged and RTN alarms and that unacknowledged alarms cannot be deleted.

Downloading Alarm Log

Minimum Access Level Required: Assistant Operator

Description

Downloading refers to the process of copying the alarm log from Excel 15B to your PC in a .csv format. The file name has the default ‘alarm log’, followed by the date in the ‘yyyy/mm/dd’ format and then a unique ID for the alarm log.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
2. Click “Download Data”.

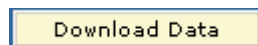


Fig. 34. Alarms Page - Download Data

The “File Download” window appears.

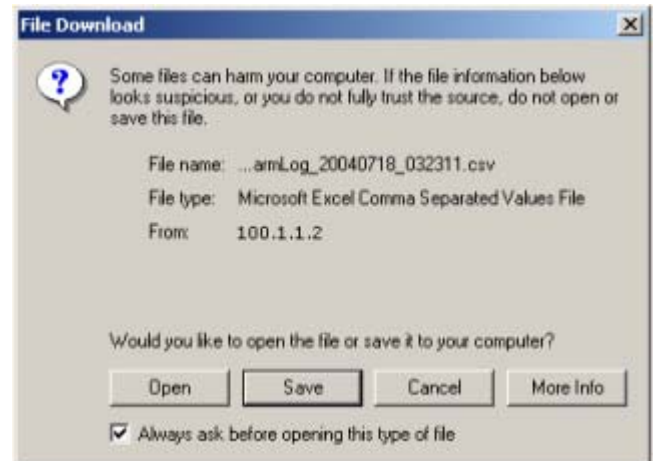


Fig. 35. File Download Window

You can do one of the following: open the alarm log file from its current location, save it on your PC, or cancel the download process.

3. If you choose “Save” and then click “OK”, the “alarm log” file is copied to your PC and saved in an excel sheet.

Entering and Modifying Comment for an Alarm Condition

Minimum Access Level Required: Assistant Operator

Description

You can enter comments on all alarm conditions. Your comments must point to the intended tasks or provide details that are relevant to a particular alarm condition.

NOTE: The System Administrator must provide the concerned user permission to Acknowledge/Delete alarms.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
2. Select the checkbox adjacent to the alarm record for which you want to enter or modify comments (refer to the “Comments Section” in Fig. 29). Any comments, if already entered for the selected alarm record, are displayed in the “Comments” box.
3. Modify the comment and click “Save”. When the same alarm record is selected the next time, the updated information appears in the “Comments” box.

Printing Alarm Log

Minimum Access Level Required: Assistant Operator

Description

The print option is available only for the “Alarms” page and enables you to print all the alarm conditions displayed on the “Alarms” page. You cannot customize the format nor specify the number of pages that you want to be printed.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
2. Click “Print” located on the top right corner of the Excel 15B menu bar.


Fig. 36. Alarms Page - Print Option

The “Excel 15B - Honeywell Building Manager” window displays the details of all the alarm conditions (these are the same details that can be viewed on the “Alarms” page).

3. On the “IE” menu bar, click “File” and select “Print” from the drop-down menu to print all the alarm records that are displayed.

Viewing Records on Multiple Pages

Minimum Access Level Required: Assistant Operator

Description

Multiple pages are created when the number of records logged on a particular page exceed the specified limit. In such cases, click “<<Previous” to view the records on the previous page; click “Next>>” to view the records on the next page.

NOTE: To view the records on a particular page, select the page number from the “Page” list. The selected page with the records’ is displayed after the specified refresh interval. The total number of pages displaying the records also appears beside the “Page” list.

Examples

- Multiple pages are created when the alarm conditions that are logged on the “Alarms” page exceed 100 (refer to the “Pagination Section” in Fig. 29).
- Multiple pages are created when the number of trend samples (default or user defined trend) that are logged exceeds 100 (only in data view).

Viewing Trends

Minimum Access Level Required: Assistant Operator

Click “Trends” on the Excel 15B menu bar to view and manage default and user defined trends.

NOTE: You can also monitor user defined trend points off-line from LonSpec™. For more information, refer to LonSpec™ online help.

Description

Trending is the process of monitoring the variations in a point for a specified period. By default, Excel 15B performs trending on all supported devices and also allows configuring of trends.

Excel 15B automatically creates a default trend log for each supported device on the Lon® network. The trend data points vary by the type of device selected. Each default trend log has up to 5,000 trend samples (trend records) and a sample interval of one hour. You can only view and monitor the

variations in data points of default trends; these data points cannot be modified. The trend samples are logged only on selected data points.

Excel 15B supports over 100 user defined trend logs. Each such trend log can have up to 10 trend points and over 10,000 samples (trend records). You can configure the sample rate for each trend log.

In graph view, you can monitor the behavior of a data point for a specified period and simultaneously plot the variations on a graph, with the time interval on the X-axis and the values of the data point on the Y-axis. Every 60 minutes, one sample is logged for each default trend. The trend log can hold a maximum of 5000 samples.

In data view, the variations of all the data points in a device are read and displayed along with the time stamp information. The data displayed is for a specified period and depends on the type of data points selected (analog, digital, or SNVT).

Both default and user defined trend logs use periodic sampling. When trend log exceeds the configured sample number, new trend data overwrites the oldest trend data. The most recent trend samples are displayed.

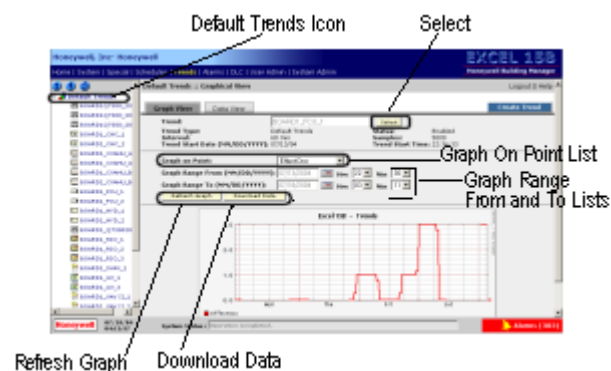
Viewing a Default Trend in Graphical view

Minimum Access Level Required: Assistant Operator

Procedure

1. Click “Trends” on the Excel 15B menu bar. By default, the graph view of the first default trend is displayed on the “Default Trends::Graphical View” page.

NOTE: The following message is displayed - “**No default trends found in the system**” if the default trending on the devices has not yet started or if there are no devices discovered by Excel 15B.

**Fig. 37. Default Trends::Graphical View Page****Other Methods of Selecting a Default Trend**

- From the list displayed under the “Default Trends” icon, choose the default trend that you want to view.
- Click “Select” on the “Default Trends::Graphical View” page to choose a default trend from the “Select Trend From List” window. The selected default trend name appears in the “Trend” box.

- From the “Graph On Point” list, select the data point whose variations have to be plotted on a graph. The graph displays the variations of only one data point at a time.
- To select the start and end dates, click the “Calendar” icon displayed for the respective “Graph Range From” and “Graph Range To” lists.

NOTE: The end date that you select must always be greater than the start date.

- Select the start time and the end time from the respective “Hrs” and “Min” lists. The variations of the selected data point is captured for the specified period and plotted on the graph. The start date is displayed as the “Trend Start Date” and the start time is displayed as the “Trend Start Time”.
- Click “Refresh Graph”. The “Default Trends::Graphical View” page is refreshed to display the graph for the selected data point.

Viewing a Default Trend in Data View

Minimum Access Level Required: Assistant Operator

Procedure

- Click “Trends” on the Excel 15B menu bar. By default, the graph view of the first default trend is displayed on the “Default Trends::Graphical View” page (refer to Fig. 37).
- Click the “Data View” tab. The “Default Trends::Data View” page is displayed. The same default trend details are displayed in a text format.

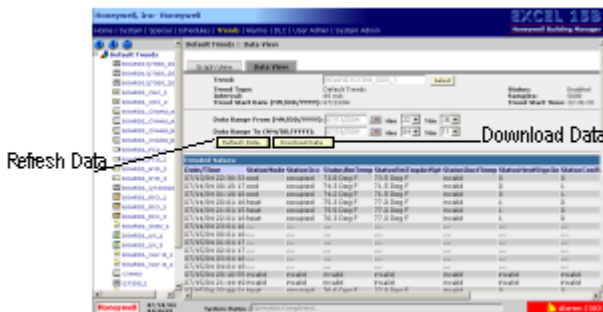


Fig. 38. Default Trends::Data View Page

NOTE: You can also select a default trend other than the one displayed. For more information, refer to “Other Methods of Selecting a Default Trend” on page 32.

- Then, follow steps 3-4 mentioned in “Viewing a Default Trend in Graphical view” on page 32.
- Click “Refresh Data”. The “Default Trends::Data View” page is refreshed to display the values of all the data points for the specified period. Multiple pages are created when the trend samples exceed 100. For more information on browsing multiple pages to view trend samples, refer to “Viewing Records on Multiple Pages” on page 32.

NOTE: Each of the following legend identifies a particular state of the selected point value:

- ‘---’ (implies the device is off-line)
- Invalid (implies the selected point value is invalid or the NV cannot be read).
- Number/text (value or state of the selected point).

Viewing a User Defined Trend in Graphical View

Minimum Access Level Required: Assistant Operator

Procedure

- Click “Trends” on the Excel 15B menu bar. By default, the graph view of the first default trend is displayed on the “Default Trends::Graphical View” page (refer to Fig. 37).
- From the list displayed under the “User Defined Trends” icon, select the user defined trend that you want to view. The selected trend details are displayed on the “User Defined Trends::Graphical View” page.

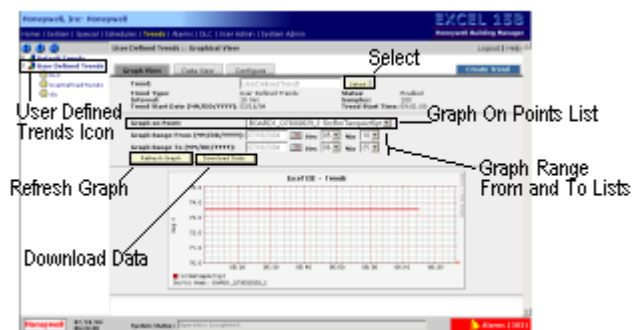


Fig. 39. User Defined Trends::Graphical View Page

NOTE: The “Graph View” and the “Data View” tabs are disabled if there are no user defined trends.

- Follow steps 2-5 mentioned in “Viewing a Default Trend in Graphical view” on page 32.

NOTE:

- The following message is displayed if there are no points configured for the selected trend - “**No points configured for this trend**”.
- The following message is displayed if there are no trend samples available for the selected date range and time - “**There are no trend samples available for selected date range**”.

Viewing a User Defined Trend in Data View

Minimum Access Level Required: Assistant Operator

Procedure

- Click “Trends” on the Excel 15B menu bar. By default, the graph view of the first default trend is displayed on the “Default Trends::Graphical View” page (refer to Fig. 37).
- From the list displayed under “User Defined Trends” icon, select the user defined trend that you want to view. The selected trend details are displayed on the “User Defined Trends::Graphical View” page.

- 3. Click “Data View” tab to view the same trend details on the “User Defined Trends::Data View” page.

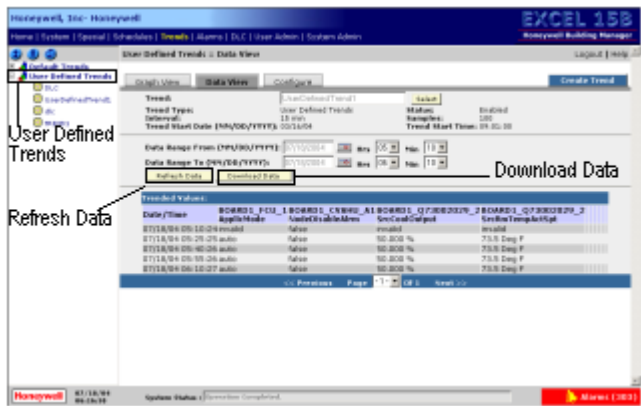


Fig. 40. User Defined Trends::Data View Page

NOTE: To view the graph view or the data view of another user defined trend, click “Select” on the respective “User Defined Trends::Graphical View” page or the “User Defined Trends::Data View” page. From the “Select Trend From List” window, choose the trend whose details you want to view.

Downloading Trend Log

Minimum Access Level Required: Assistant Operator

NOTE: The following procedure is common for downloading both the default as well as the user defined trend logs.

Procedure

- 1. Click “Trends” on the Excel 15B menu bar.
- 2. Based on whether you want to download a default trend’s log or a user defined trend’s log, click “Download Data” on the respective Default Trends page or the User Defined Trends page. The “File Download” window appears.

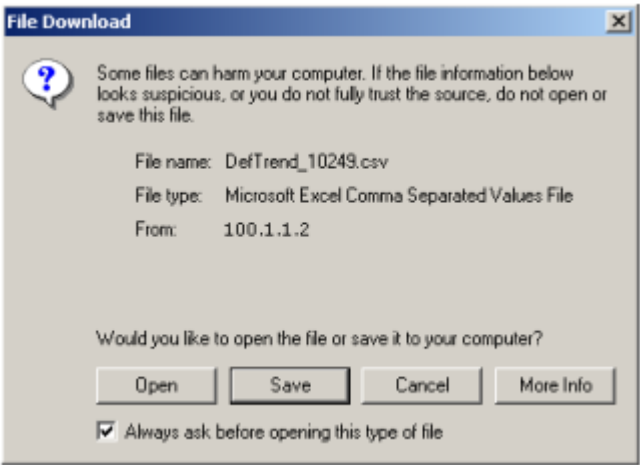


Fig. 41. File Download Window

You can do one of the following: open the trend log file from its current location, save it on your PC or cancel the download process.

- 3. If you choose “Save”, then the trend log file is copied to your PC and saved in an excel sheet.

IMPORTANT

To prevent overwriting the file with a subsequent save of the same trend log, change the file name each time the trend log is downloaded. Add the download date or some other unique identifier to the file name.

CONFIGURATION PROCEDURES

The following procedures describe configuration functions for the Excel 15B Building Manager. Procedures include adding, modifying and deleting users, setting the Excel 15B time, completing the initial set up of Excel 15B, configuring Special Displays (custom graphic), configuring and assigning schedules, configuring and assigning DLC loads, creating and updating configured alarms, and configuring and updating user defined trend logs.

It is assumed that you have a working knowledge of Microsoft® Internet Explorer version 5.5 or higher and the computer in use has Internet or LAN/WAN connectivity to the Excel 15B Building Manager. While the manual is written with references to operation with a pointing tool (mouse), keyboard hotkeys and shortcuts are also supported. You need to be logged in with an user ID of appropriate access level to perform each of the configuration procedures.

NOTE: Site access and Login procedures are covered in the “Operator Procedures” section: [“Accessing Excel 15B Site” on page 9](#) and [“Logging On” on page 9](#).

Configuration Parameters

Until and unless explicitly specified, all the text entries on all the Excel 15B pages are 30 alphanumeric characters. The character length includes underscore ('_') and hyphen ('-'). Special characters are not allowed. Entries are case sensitive.

Installation and Setup

Installation and initial setup of the Excel 15B Building Manager is covered in the **Installation Instructions 95-7668—6**.

Managing a User Profile

Access Level Required: System Administrator

Click “User Admin” on the Excel 15B menu bar to create, view, or update a user’s profile.

Description

You can create a maximum of 100 users’ profiles. You must be familiar with user ID and password security standards to enforce user compliance when creating a user profile.

As Excel 15B Building Manager is a secure server, you need to log in with a pre-assigned user ID and password. The user ID and password combination determine your access level, which in turn determine the kind of operator and configuration functions performed. To protect confidential data, Excel 15B provides seven access levels. Access to the data on the Excel 15B web pages is restricted by an individual’s access level.

The Network Administrator must be familiar with user ID and password security standards and enforce user compliance. The Excel 15B Building Manager can be accessed using these initial default user ID and password:

“User ID” - SysAdmin and “Password” - !Sys!Admin.

It is a good practice to add one or more additional users with Administrator access level to ensure top level access to Excel 15B. Those with higher access levels have the privileges of all the lower levels in addition to the privileges unique to that

level. These access levels are managed by the System Administrator. There can be an individual or many System Administrators who are assigned the task of managing individuals at different access levels.

IMPORTANT

For security compliance, it is mandatory to change your password after the initial login process. Once changed, the default password will no longer work. Exercise care to create a new password that meets the security standards and can be easily remembered by the System Administrator.

Creating a User Profile

Procedure

1. Click “User Admin” on the Excel 15B menu bar. By default, the “User Administration::View Users” page is displayed.
2. Click “Create User” located on the top right corner of the page.

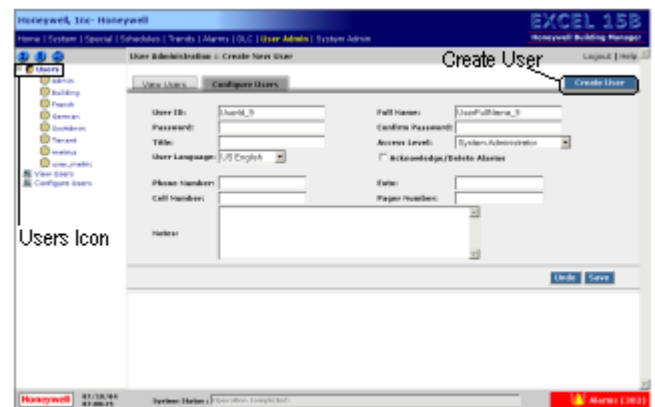


Fig. 42. User Administration::Create New User Page

3. Enter the user information in the fields indicated on the “User Administration::Create New User” page. All entries are case sensitive.
 - a. The following information is mandatory:
 - Full Name
 - User ID
 - Password (must be at least 5 characters)
 - Confirm Password
 - Access Level
 - User Language
 - b. The following information is optional:
 - Phone Number (15 digits)
 - Cell Number (15 digits)
 - Pager Number (15 digits)
 - Notes (100 digits).
4. From the “User Language” list, select the language familiar to the user. The default selection is “US English”. Besides “US English”, Excel 15B also supports “Deutsch”, “French”, and “English-Metric”. Excel 15B displays all the engineering units, on all the configuration pages in the selected language.
5. From the “Access Level” list, select the relevant access level for the new user. The default selection is “System Administrator”.

6. Select the checkbox adjacent to “Acknowledge/Delete Alarms” if you want to authorize the user to acknowledge and delete alarms.
7. Click “Save” to update the new user’s profile in Excel 15B. Expand “Users” icon to see the new user in the list (refer to Fig. 42).
Click “Undo” to clear all the latest selections and entries.

NOTE: There are seven access levels with System Administrator being the highest and Tenant being the lowest. Refer to the following “Roles and Access Levels” topic to know the different access levels and the tasks assigned for each access level.

Roles and Access Levels

Table 13 lists the different access levels and the privileges assigned.

Viewing Users’ Profiles

Procedure

Click “User Admin” on the Excel 15B menu bar. By default, the “User Administration::View Users” page is displayed with the summary of all users. The users’ records are alphabetically sorted with the details tabulated under separate column headings. Each row displays a user record and every column heading identifies with a section of the record.

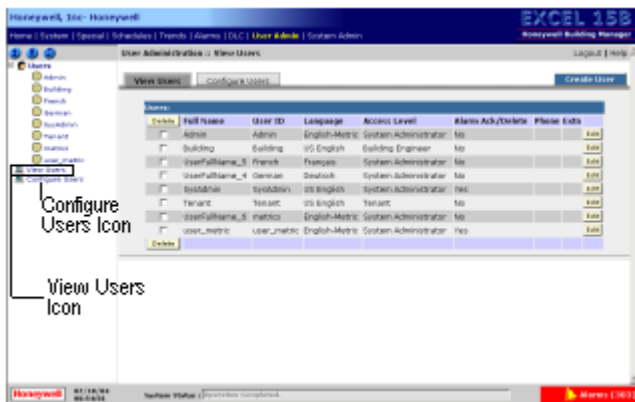


Fig. 43. User Administration::View Users Page

NOTE: You can also click “View Users” icon to directly view the summary of all users. Also, you can click the “Configure Users” icon if you want to view the details of the first user in the alphabetical listing

Updating a User’s Profile

• Important

The existing password is not displayed in the “Password” and the “Confirm Password” boxes. When changing the existing password, ensure that the new password you type is at least 5 characters long.

Table 13. Roles and Access Privileges.

Function	System Administrator	Building Engineer	Assistant Building Engineer	Contractor	Chief Operator	Assistant Operator	Tenant (End User)
Login Page	X	X	X	X	X	X	X
Excel 15B Home Page	X	X	X	X	X	X	X
System View	X	X	X	X	X	X	X
System Initiate Occupied Bypass	X	X	X	X	X	X	
System Cancel Occupied Bypass	X	X	X	X	X	X	
System Write Set Points	X	X	X	X	X	X	
Special View	X	X	X	X	X	X	X
Special Create/Modify	X	X	X				
Schedules View	X	X	X	X	X	X	X
Schedules Create/Modify	X	X	X	X	X	X	
Alarms View	X	X	X	X	X	X	
Alarms Create/Modify	X	X	X	X	X		
Alarms Assign Priority	X	X	X	X	X		
Alarms Assign E-mail	X	X	X	X	X		
DLC View	X	X	X	X	X	X	
DLC Configure	X	X					
DLC Load Assignment	X	X					
DLC Load Status	X	X	X	X	X	X	
DLC Graph	X	X	X	X	X	X	X
Trends View	X	X	X	X	X	X	X
Trends Create/Modify	X	X	X	X	X		
SysAdmin Set Time	X						
SysAdmin System Setup	X						
SysAdmin Graphics Setup	X						
SysAdmin Network	X						
SysAdmin Summary view	X						
SysAdmin Summary Modify	X						
SysAdmin Install Package	X						
User Admin View	X						
User Admin Create/Modify	X						

Procedure

1. Click “User Admin” on the Excel 15B menu bar. By default, the “User Administration::View Users” page is displayed.
2. Go to the user profile that you want to modify and click its corresponding “Edit” option. The details of the selected user profile are displayed under the “Configure” tab on the “User Administration::Configure” page.

NOTE: You can also select a user's name from the list displayed under “Users” icon (refer to [Fig. 42](#)).

3. Make the necessary modifications to the user profile.
4. Click “Save” to update the user profile.
Click “Undo” to clear all the latest selections and entries.

DELETING A USER'S PROFILE**Procedure**

1. Click “User Admin” on the Excel 15B menu bar. By default, the “User Administration::View Users” page is displayed.
2. Select the checkbox adjacent to one or more users' profiles.
3. Click “Delete”. The user profile is removed from the list under the “Users” icon.

Managing Excel 15B Settings

Access Level Required: System Administrator

Description

You need to customize Excel 15B system settings for it to work at the specific site. In addition to this, you can also import or delete graphics, view, hide, show, or delete devices, install new packages or service packs on Excel 15B. The following points brief you the tasks that can be performed under different tabs on the System Administration page:

- Under the “System” tab, you can:
 - Change company and site names and logo appearing in the header area.
 - Set Excel 15B as the time master
 - Synchronize Excel 15B time with the internet time
 - Manually set Excel 15B time
 - Configure SMTP E-mail server to send alarm notifications.
 - Save and restore Excel 15B database
 - Download Excel 15B log
- Under the “Graphic” tab, you can:
 - Import graphics to represent company logo and building picture on the “Excel 15B Home” page.
 - Insert the imported graphic as a static background behind the network data on the “Special::view” page.
 - Delete graphic files.
- Under the “Device List” tab, you can:
 - View, show, hide and delete supported and non-supported devices
 - Discover devices on the LON[®] network
- Under “Install Package” tab, you can:
 - Install system upgrades and new service packs even from remote locations.

The network data configured during the installation process appears as disabled text and cannot be modified.

The imported graphic files are saved in Excel 15B and the deleted files are removed from Excel 15B. Excel 15B does not support any graphic editing tool. The graphic images are created outside of Excel 15B using any graphic tools that create files in GIF and JPG format. The graphic images should be properly sized to fit the pages. All editing must be done prior to importing the graphic file into Excel 15B.

Configuring System Settings**General Procedure**

Click “System Admin” on the Excel 15B menu bar to configure Excel 15B system settings on the “System Administration::System Setup” page under the “System” tab.

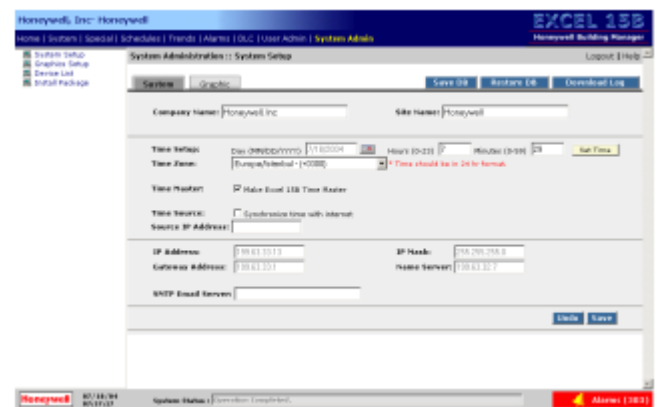


Fig. 44. System Administration::System Setup Page

Modifying Company and Site Names**Procedure**

1. On the “System Administration::System Setup” page, overwrite any existing text in the “Company Name” and “Site Name” boxes with new names.
2. Click “Save” to view the modified company and site names in the top header area on all Excel 15B pages.

Manual Setting of System Time**IMPORTANT**

It is possible to synchronize the Excel 15B time with the internet time. If this option is selected, then the time that is manually set is overridden with the next synchronization with the Internet time. Synchronization happens every midnight.

Description

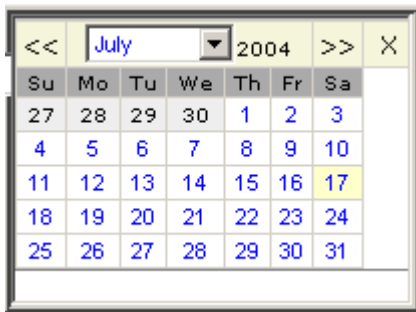
Excel 15B has a built-in real time clock and displays its current time in the “Hours” and “Minutes” boxes and current date in the “Day” box. You can retain the default settings by clicking “Set Time” or manually enter the date and time into Excel 15B.

Procedure

1. On the "System Administration::System Setup" page, move to the "Time Setup" section and click the "Calendar" icon.



2. Select the month, date and year that you want from the calendar displayed. By default, the current system date, month and year are displayed.
 - Use "<<" to view the previous year and ">>" to view the year ahead.



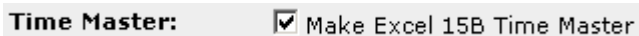
- Select the month from the "Month" list.
 - Click "X" to close the calendar. The selected date is displayed in the "Day" box; the format is "mm/dd/yyyy".
3. Enter the time in the "Hours" and "Minutes" boxes.
 4. Click "Set Time". The selected date and time is loaded into Excel 15B. It may take as long as 15 seconds for Excel 15B to read the time.

Setting Excel 15B as Time Master**Description**

Excel 15B will synchronize the time clocks of all the discovered Q7300 and T7350 devices on the LON[®] network with its local time, if you enable Excel 15B as the time master. All the Q7300 and T7350 devices discovered by Excel 15B will follow the Excel 15B time. By default, this option is disabled.

Procedure

1. On the "System Administration::System Setup" page, select the "Make Excel15B Time Master" checkbox.



2. Click "Save" to update Excel 15B as the time master for all the devices on the LON[®] network. Click "Undo" to cancel all the latest selections and entries.

Synchronizing with Internet Time Source**Description**

Besides manually setting the system's internal time clock, you can also synchronize it with the internet time. When you select "Synchronize Time with Internet" checkbox, the internet time is checked during Excel 15B initialization and once daily at midnight to set the internal time clock. When this option is enabled, the "Set Time" option (manual setting of time) will be changed with the next internet update.

The time zone must be selected to match the time zone of the Excel 15B geographic location. When synchronizing time with an Internet server, ensure that Excel 15B is configured to use the correct time zone.

Internet Service Providers

Internet time is available from a number of public and private sources. One public source is the National Institute of Standards and Technology (NIST) Internet Time Service. A list of NIST Internet Time Servers is available at "<http://www.boulder.nist.gov/timefreq/service/time-servers.html>". Another public source is the U.S. Naval Observatory available at "<http://tycho.usno.navy.mil>".

Procedure

1. On the "System Administration::System Setup" page, select the "Synchronize Time with Internet" checkbox.



2. Enter the IP Address (numerical form) of the internet time source in the "Source IP Address" box. An example to maintain the format: 10.1.19.3
3. Select the required time zone from the "Time Zone" list. (The time zones are alphabetically sorted.)
4. Click "Save" to synchronize Excel 15B time with the internet time. Click "Undo" to cancel all the latest selections and entries.

Configuring SMTP E-mail Server**Description**

You must configure SMTP E-mail server to send alarm notifications. The Internet Service Provider (ISP) or Network Administrator has to provide the server and domain names prior to configuring the SMTP E-mail server option. An example to maintain the format: SMTP.server.com. In case you want Excel 15B to use an external SMTP server, enter the SMTP server address followed by a valid e-mail address. If authentication is required at the server end, then you need to enter your user ID and password. The user who receives the alarm notifications from Excel 15B sees the site name and the sender's e-mail address in the From box.

Procedure

1. On the "System Administration::System Setup" page, enter the SMTP E-mail server name in the "SMTP E-mail Server" box.



2. Enter a valid e-mail address in the "SMTP Email Address" box. The e-mail account should be present in the SMTP server being used.
3. If the SMTP server needs authentication, enter your user ID in the "SMTP User Name" box and password in the "SMTP Password" box.
4. Click "Save" to update the SMTP E-mail Server configuration. Click "Undo" to cancel all the latest selections and entries.

Saving Excel 15B Database



CAUTION

Exert care not to tamper with the backed up file extension or change the file name. Before restoring the backed up file, Excel 15B performs a validity check to ensure that the file is not corrupted. You cannot take a backup of the data when one backup process is already running.

The following message is displayed if you click “Save DB” when the backup process is running.



Fig. 45. Backup Operation Error Message

Description

Excel 15B utilizes an internal hard drive to store all the data. Good practices dictate that you take a backup of the system data and store it in another location. The “Save DB” and “Restore DB” options are used for the data backup and restore process.

Procedure

1. On the “System Administration::System Setup” page, click “Save DB”. The “File Download” window appears.

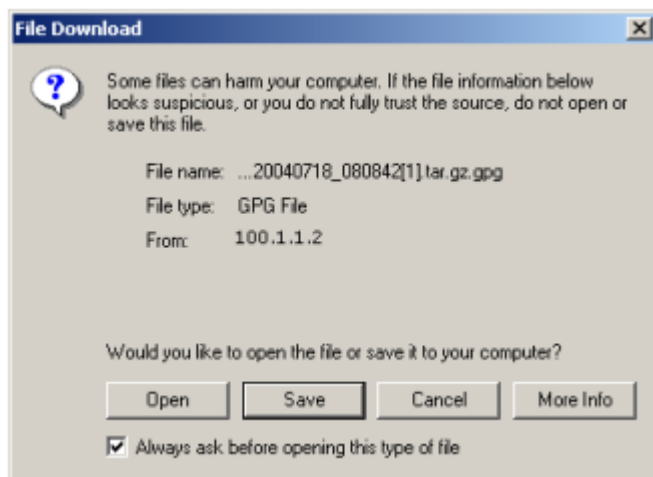


Fig. 46. File Download Window

You are prompted to do one of the following: open the file (with tar.gz.gpg extension) from its current location, save the backup file to the disk on your PC, or cancel the download process.

2. If you click “Save”, the backup process creates a compressed file copy of Excel 15B and stores it in the selected location.

Restoring Excel 15B Database

Description

The Restore process de-compresses and extracts the files from the archive, and then restores them to the normal level.

Procedure

1. On the “System Administration::System Setup” page, click “Restore DB”. The system displays the following warning message - **“Restoring the configuration from backup will change the state of Excel 15B to the state when backup was taken. This will erase any new configuration and erase the entire trend logs. Do you really want to continue Restore operation?”**.
2. Click “OK” to proceed with the restore process. The “Please Select a File for Upload” window appears.

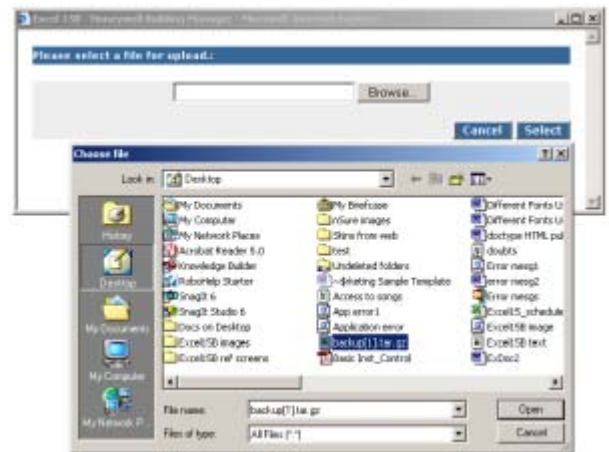


Fig. 47. Please Select a File for Upload Window and Choose File Window

3. Click “Browse”. The “Choose File” window appears.
4. Navigate through the list of folders to choose the backup file.
5. Select the backup file and click “Open”. The path leading to the backup file is displayed on the “Please Select a File for Upload” window.
6. Click “Select” to confirm restoration of the file. Excel 15B performs a validity check and restores the selected file if it is not corrupted. The following message appears when the restore process is on - **“Restore operation is in progress. It will take few minutes to complete. Please wait till the operation is complete”**. If there are no errors found during the restore process, Excel 15B informs you that the upload and restore process have been successfully completed. Close the window to return to the System Administration page.

Downloading Excel 15B Log

Description

Excel 15B log contains information about the various tasks performed on Excel 15B in a compressed file format (zip file). It contains the following log files: Error log (error_log), Access log (access_log), System log (system_log), Messages log (messages), SSL Request log (ssl_request_log) and UI log (ui.log).

Procedure

1. On the “System Administration::System Setup” page, click “Download Log”. The “File Download” window appears. You are prompted to do one of the following: open “Excel 15BLogs.zip” from its current location, save the backup file on your PC, or cancel the download process.
2. Click the appropriate option. If you click “Save”, the zipped file will be saved in the selected location.

Configuring Graphic Settings**General Procedure**

1. Click “System Admin” on the Excel 15B menu bar. The “System Administration::System Setup” page is displayed.
2. Click the “Graphic” tab to configure the Excel 15B graphic settings on the “System Administration::Graphic Setup” page.



Fig. 48. System Administration::Graphics Setup Page

NOTE: You can also click the “Graphics Setup” icon to view the “System Administration::Graphic Setup” page.

Importing a Graphic File**Procedure**

1. Follow steps mentioned in the preceding “**General Procedure**”.
2. Then, click “Browse” adjacent to the “Import Graphics” box (refer to the “**Importing or Deleting Graphics Section**” in Fig.48). The “Choose File” window appears.
3. Click the “Look In” list and go to the folder that has the graphic file.
4. Select the file and click “Open”. The “Import Graphics” box displays the path that points to the selected graphic file.

NOTE: If you know the file name, you can directly enter it in the “Import Graphics” box.

5. Click “Import Graphic”. The selected file is imported and saved in Excel 15B.

Deleting a Graphic File**Procedure**

1. Follow steps mentioned in the preceding “**General Procedure**” (refer to “**Configuring Graphic Settings**” on page 40).
2. Then, from the “Delete Graphics” list, select the graphic file that you want to delete. All the graphic files that are used in Excel 15B are listed.
3. Click “Delete Graphic”. The selected file is removed from Excel 15B.

Selecting a Building Graphic**Procedure**

1. Follow steps mentioned in the preceding “**General Procedure**” (refer to “**Configuring Graphic Settings**” on page 40).
2. Then, click “Select Graphic” adjacent to the “Select Building Graphic” box (refer to the “**Selecting Building and Logo Graphics Section**” in Fig. 48). The “Select Graphic From List” window appears.
3. Choose the graphic file from the list displayed.
4. Click “Select” to view the selected graphic file in the “Select Building Graphic” box.

Selecting a Logo Graphic**Procedure**

1. Follow steps mentioned in the preceding “**General Procedure**” (refer to “**Configuring Graphic Settings**” on page 40).
2. Then, click “Select Graphic” that is adjacent to “Select Logo Graphic” box (refer to the “**Selecting Building and Logo Graphics Section**” in Fig. 48). The “Select Graphic From List” window appears.
3. Choose the graphic file from the list displayed.
4. Click “Select” to view the selected logo graphic file in the “Select Logo Graphic” box.

After selecting a building graphic or a logo graphic or both, click “Save”. The building graphic appears on the “Excel 15B Home” page and the logo graphic appears in the top portion of the left navigation pane.

Click “Undo” to clear all the latest selections and entries.

Managing List of Devices

General Procedure

1. Click “System Admin” on the Excel 15B menu bar. The “System Administration::System Setup” page is displayed.
2. Click the “Device List” icon to view, hide, show, or delete devices on the “System Administration::Network Summary::Device List” page.



Fig. 49. System Administration::Network Summary::Device List Page

Viewing List of Devices

IMPORTANT

Click “Device Discovery” to discover devices on the Lon[®] network. During Device Discovery, if the device list is full (120 devices), then a newly found supported device will replace a non-supported device in the device list. A supported device is given priority over a non-supported device.

Description

On the “System Administration::Network Summary::Device List” page (refer to Fig. 49), you can view the list of all the connected devices, know their current status, show, hide, or delete devices. In addition, you can also view the following information at the bottom of the page:

- Number of supported devices
 - Number of non-supported or co-existent devices
 - Total number of devices (supported and non-supported)
- Apart from this, each device information is given in a tabular format. The following points provide a brief description of each column heading:
- “Device ID”: Identifies the unique device ID assigned to a device.
 - “Device Name”: Identifies the name of the device
 - “Status”: Identifies the active or inactive (on/off) status of the device.
 - “Node ID”: Identifies a device’s unique node number on the Lon[®] network. Node ID is a combination of the SubnetID and the NodeID.
 - “Neuron ID”: Identifies the unique neuron ID of the device
 - “Product ID”: Identifies the product ID of the device

Hiding a Device

Procedure

1. Follow steps mentioned in the preceding “General Procedure” (refer to “Managing List of Devices” on page 41).
2. Then, go to the device that you want to hide.
3. Click “Hide” (refer to Fig. 49). The checkbox for that particular device is automatically selected and “Hide” changes to “Show”.

Important

A hidden device does not appear in the “Device List” on the “System::View” page. This feature is particularly useful if you do not want the non-supported devices to appear in the “Device List” tree on the “System::View” page. The device hiding feature is not functional in all the other Excel 15B pages.

Deleting a Device

Description

Deleting a device removes it from the device list as well as from all other configurations such as trends, alarms, special displays, DLC and schedules. Any alarms generated before the device was deleted will still be displayed on the “Alarms” page.

- If a device that is part of the DLC configuration is deleted, then Excel 15B reloads the DLC configuration.
- If Excel 15C Plant controller that is selected as the pulse meter input is deleted, DLC service will be disabled.

IMPORTANT

You will not be able to see the deleted device in any of the pages until it is discovered in the next device discovery operation.

Procedure

1. Follow steps mentioned in the preceding “General Procedure” (refer to “Managing List of Devices” on page 41).
1. Then, go to the device that you want to delete and select the corresponding checkbox.
2. Click “Delete” (refer to Fig. 49). The device is removed from the device list as well as from all other configurations. For deleting multiple devices, you need to select the checkboxes for all the devices and then click “Delete”.

NOTE: As a safe practice, it is good to study the level of interaction of Excel 15B with the selected device and then delete it.

Installing a New Package

Description

System upgrades and service packs can be installed in Excel 15B from a remote location without any manual interference. Select the package or the service pack, follow the suggested procedure and Excel 15B installs the package for you.

Excel 15B displays the following error message if you try to re-install a package that is already installed - “**This package is already installed.**”. It also reads and displays the actual error generated during the package installation.

NOTE: Please note that the package is not internationalized and the error messages are displayed only in English.

Procedure

1. Click “System Admin” on the Excel 15B menu bar. The “System Administration::System Setup” page is displayed.
2. Click “Install Package” icon to view the “System Administration::Install Package” page.



Fig. 50. System Administration::Install Package Page

3. Click “Browse” that is adjacent to the “Import File” box to import a package.



Fig. 51. System Administration::Install Package Page

4. Click the “Look In” list on the “Choose File” window.
5. Go to the folder that has the required package. The package must be of RPM format.
6. Select the package and click “Open”. The “Import File” box displays the path leading to the package.
7. Click “Import File”. Excel 15B prepares to upload the file. Once the file is uploaded, Excel 15B performs a signature check to see if the package selected is valid.

IMPORTANT

A package is found to be valid if it has the Honeywell digital signature. Honeywell digital signature affirms that the package has been tested and that it is not altered since it was tested.

Once it is confirmed that the package is valid, the package details are displayed. Read the details thoroughly before proceeding further.



CAUTION

The following are the instructions that you need to adhere to during the installation process:

- Upgrading is a critical task and needs to be applied only after consultation with the Honeywell Support professionals.
- Once the upgrade has begun, it is very important that you do not turn off or reboot your machine. The machine will appear to be idle for few minutes while the upgrade is in progress.
- Interrupting the program by pressing the power button or by recycling the power may permanently corrupt the Excel 15B system.

8. Click “Install Now” to continue with the installation of the new package into Excel 15B. Upon successful installation, Excel 15B displays the following message - ***“The package installation completed successfully”***.

Managing a Special Display

Access Level Required: Assistant Engineer

Click “Special” on the Excel 15B menu bar to create, update and view a Special Display. For more information on viewing a Special Display, refer to [“Viewing a Special Display” on page 15](#).

Description

A Special Display can have a maximum of 20 databoxes. Each databox can be configured to read and display data points from any supported device or object on the LonWorks® network. It can be positioned anywhere on the graphic using the drag and drop techniques. You can read a data point on multiple Special Displays but you cannot write values to it.

You can also configure the refresh interval period; the default refresh interval is 15 seconds.

IMPORTANT

You need to go to the “System::View” page if you want to write new setpoints, initiate or cancel bypass on a device or a object. Changing set points and initiating bypass are not supported from the Special Display pages.

In addition to this, you can constantly update the following in a Special Display:

- Databoxes: You can add or delete databoxes.
- Assigned data points: You can assign new data points to the existing databoxes (the databox stops reading the values of the previously assigned data point and associates itself with the new data point.)
- Graphic: You can replace the existing graphic with a new graphic
- Refresh Interval: You can change the rate at which the Special Display page is refreshed

Creating a Special Display

Minimum Access Level Required: Assistant Building Engineer

Procedure

1. Click "Special" on the Excel 15B menu bar. The "Special::View" page is displayed (refer to Fig. 9).
2. Click "Create Special" located at the right top corner of the page.



Fig. 52. Special::View Page

The "Special::Create New Special" page is displayed.

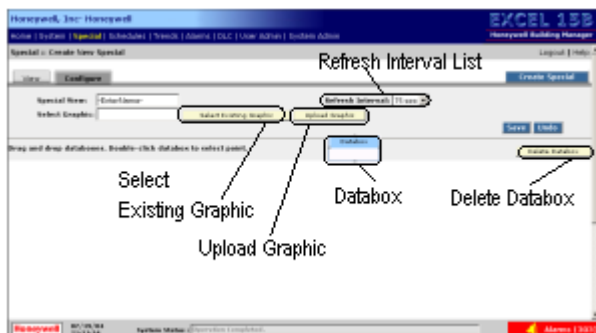


Fig. 53. Special::Create New Special Page

- **If You are Creating the First Special Display**
Clicking "Special" on the Excel 15B menu bar directly displays the "Special::Create New Special" page. The following message is displayed on top of the page - **"*No Special Views configured in the System"**.
3. Enter a unique display name in the "Special View" box.
 4. Selecting and Displaying a Graphic File
There are two ways of selecting and displaying a graphic file. Procedure (a) can be performed only by a System Administrator.

- a. Click "Upload Graphic" to select and upload a new graphic file from across the network or your PC to Excel 15B (for more information, refer to ["Importing a Graphic File" on page 40](#)). Once uploaded, you need to click "Select Existing Graphic" to choose the uploaded graphic file (refer to step b) from the list displayed.

IMPORTANT

Before clicking "Upload Graphic", you must save the information entered on the "Special::Create New Special" page.

- b. Click "Select Existing Graphic" to choose a graphic file from the "Select Graphic From List" window. All the graphic files available in the Excel 15B database are displayed in the list. The selected graphic file (either from procedure (a) or (b)) appears in the "Select Graphic" box.
5. Selecting and Configuring a Databox
 - a. To select a databox, move the mouse over the "Databox" icon (refer to Fig. 53). When the cursor changes from arrow to four handles, click the databox.
 - b. Then, holding down the left mouse button, drag and drop it on to the graphic. Repeat the procedure for each databox. You can drag and drop a maximum of 20 databoxes. When all 20 are used the "Databox" icon changes to the following.
 - c. Double-click a databox to select the device or object data point from the "Select View Special Point" window. The "Device/Object List" displays the list of all Excel 15B supported devices and objects.

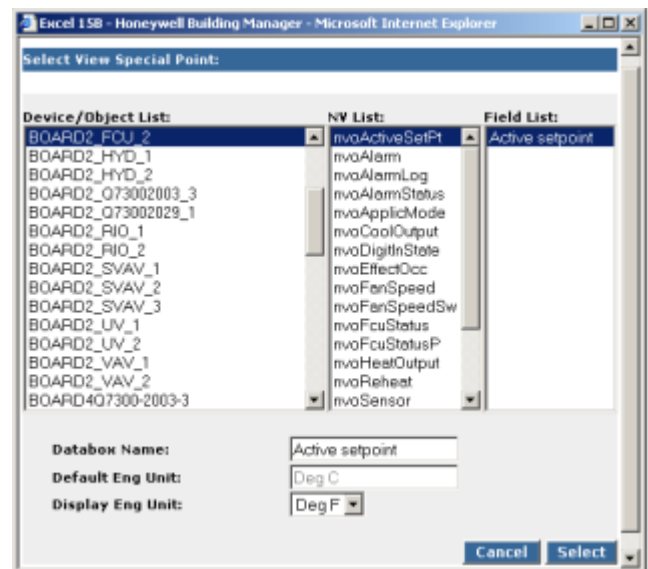


Fig. 54. Select View Special Point Window

- d. From the "Device/Object List", select the device or the object whose points have to be read. The NVs (network variables) of the selected device or object are displayed under "NV List".

NOTE: XL 15C control object and its control loops are separated by '::'. For example, XL 15C_1::SSLoop3. A NV is a LonWorks® network data string containing one or more fields of data from a device. For information on NVs and fields, refer to **Light Commercial Building Solution - System Engineering Manual and Application Guides** for individual products. In most cases, the data used to create Special Displays will be available from the NV identified as "Data". The prefix or suffix will vary from device to device.

- e. From the “NV List”, select a NV to view its points or values. All the associated points or values are displayed under “Field List”.
 - f. From the “Field List”, select the point whose value has to be read. The selected point name overwrites the default text ‘Databox’ in the “Databox Name” box.
 - g. The “Default Eng Unit” box displays the non-editable default engineering unit associated with the selected point; the “Display Eng Unit” displays the unit that will appear in all the Excel 15B web pages. The “Default Eng Unit” and the “Display Eng Unit” lists need not always display the same unit when a point is selected. You can retain the existing selection or select a different unit from the “Display Eng Unit” list. Excel 15B will convert the default engineering unit into the display unit selected by you. If no engineering units are associated with the selected point, the “Default Eng Unit” and the “Display Eng Unit” are blank.
 - h. Click “Select”. The databox starts reading the value of the selected data point.
 - i. Repeat the configuration procedure for other databoxes. In case you want to delete a databox, select the databox and click “Delete Databox”.
6. Select the refresh interval from the “Refresh Interval” list. The default refresh interval is “15 secs”; you can customize it to “30 secs”, “1 min” and “5 min”. Until unless specified, the page is automatically refreshed every 15 seconds.
 7. Click “Save” to update the new Special Display into Excel 15B.
Click “Undo” to cancel all the latest selections and entries.

- Click “Select” on the “Special::Configure” page. The “Select Special View From List” window appears. Choose the Special Display that you want to modify from the list and click “Select”. The selected Special Display’s name appears in the “Special View” box.
3. After making the necessary modifications, click “Save” to update the Special Display.
Click “Undo” to cancel the latest selections and entries.

DELETING A SPECIAL DISPLAY

Procedure

To delete a Special Display, select the Special Display and click “Delete Special View” (refer to [Fig. 55](#)). The Special Display is removed from Excel 15B and also from the existing list of Special Displays.

Demand Limit Control

Minimum Access Level Required: Building Engineer

Click “DLC” on the Excel 15B menu bar to configure DLC load parameters, assign DLC loads to external objects and enable DLC override condition. In addition, you can also view DLC load configuration, DLC status and DLC graph. For more information on viewing DLC graph, load configuration and DLC status, refer to [“Viewing DLC Graph” on page 26](#).

Description

Demand Limit Control (DLC) continuously monitors the building’s rate of energy consumption. It automatically sheds or restores loads to prevent the demand (load) from exceeding the maximum allowable level or configured setpoint. It is based on the building’s power requirements and operating characteristics. For DLC to have control over energy savings, the configured setpoint must be less than the actual demand allocated by the power generating plant. DLC sheds or adjusts the loads during peak usages only.

DLC is driven from the current KW demand, which is an instantaneous value averaged over a period of time (demand averaging window period). It is a good practice to adjust the DLC window close to the utility company’s demand window period. This in turn will help the Excel 15B DLC to follow the same criteria as that of the utility company when taking KW demand shed decisions. The energy history log must also match the peak demand recorded by the utility company.

Load Assignments

Excel 15B supports a maximum of 50 load assignments across 120 objects. Each device is considered to be an external object when assigning it to a load. A load consists of a local configuration that defines the behavior of the load and its association with an object or a set of objects. These objects are discovered Excel 10 or Excel 15C devices, which in turn control the external electrical loads. All the objects associated under one load assignment are shed at once, restored at once and overwritten at once depending on the configuration of the load assignment. Each load assignment is identified by a load assignment number ranging from 1 to 50.

Excel 15B supports DLC for the loads connected to an XL 15C object and those connected to the following objects:

- CVAHU (Excel 10 Constant Volume Air Handling Unit)
- UV (Excel 10 Unit Ventilator)
- Q7300
- VAV II (Excel 10 Variable Air Volume Unit)

Configuring a Special Display

Minimum Access Level Required: Assistant Building Engineer

Procedure

1. Click “Special” on the Excel 15B menu bar. The “Special::View” page is displayed (refer to [Fig. 9](#)).
2. Click the “Configure” tab. By default, the details of the first Special Display are displayed on the “Special::Configure” page.

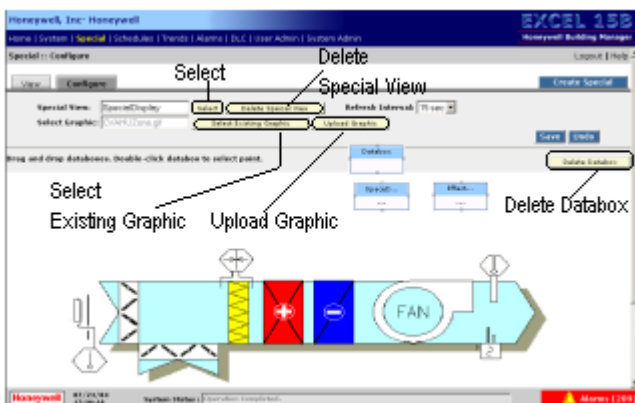


Fig. 55. Special::Configure Page

Other Method of Selecting a Special Display

- From the “Special View” list (refer to [Fig. 9](#)), select the Special Display that you want to modify.

- FCU (Excel 10 Fan Coil Unit)
- HYD (Excel 10 Hydronic Unit)
- CHC (Excel 10 Chilled Ceiling Unit)
- T7350 (Communicating Subbase for T7350)

NOTE: DLC does not drive NX VFD directly. It is configured to drive an Excel 15C object, which in turn can be configured to drive the NX VFD.

The above-mentioned objects have the output relay circuits through which loads can be energized or de-energized. Excel 15B always requires the Excel 10 or Excel 15Cs to control the external loads.

The following are the three types of loads that DLC sheds to maintain demand below the peak setpoint:

Off Continuous Loads

Off Continuous loads are the first loads that are shed by DLC. Once shed, they are not restored immediately.

Loads marked as Off Continuous generally control the loads that are least important to overall operation of the facility. When KW demand exceeds the peak setpoint, Off Continuous loads are shed first starting from the lowest numbered load (1) to the highest (50). These loads are shed until the demand goes below the peak setpoint limit. The first load is shed at staging interval seconds after the KW exceeds the peak setpoint. Additional loads are shed at staging interval, seconds until the KW is less than the peak setpoint.

Off Continuous loads, once shed are the last to be restored when demand is less than the normal level (setpoint minus the dead band). Off continuous loads are restored in the order reverse to which they were shed (highest load (50th) is restored first). Any Off Continuous load that is shed remains inactive for at least the configured Minimum Shed Time.

Rotating Loads

Rotating loads are shed or adjusted after shedding Off Continuous loads, as DLC needs to reduce the demand. Loads marked as Rotating have more important equipment assigned to them than the loads marked as Off Continuous.

Rotating loads are shed or adjusted only after all the Off Continuous loads are shed and if the KW demand still exceeds the peak setpoint. DLC sheds the Rotating loads in sequence starting with the lowest numbered load first. When demand is below the normal level (peak setpoint minus the dead band), the Rotating loads are restored on a priority basis; highest priority is given to the load that has been shed for the longest period. If restoration of a Rotating load causes KW to raise above the peak setpoint, then the next eligible Rotating load (usually the next higher numbered Rotating load) is shed.

NOTES:

- Rotating loads are restored before Off Continuous loads when KW demand is below the normal level (less than the peak setpoint minus the dead band).
- Rotating loads are not eligible for shed until their Minimum On Time has elapsed after restoration.
- Once shed, a Rotating load cannot be shed again until all the other eligible Rotating loads are shed.
- Rotating loads are not restored until their Minimum Shed Time has elapsed.
- Rotating loads can't be in Shed time not more than the Max Shed time.

Last Resort Loads

Last Resort loads control important equipment that manage the assigned overall operations of the installations. Last Resort loads are shed only if the KW demand conditions are critical (that is even after all the eligible Off Continuous and Rotating loads are shed and the KW demand still exceeds the peak setpoint limits).

Last Resort loads are shed in sequence starting with the lowest numbered Last Resort load first. They are the first to be restored when the KW demand is below the normal level (peak setpoint minus the dead band) and the Minimum Shed Time has expired. In addition, Last Resort loads are restored at or above setpoint if twice the Minimum Shed Time has elapsed. When KW falls below the normal level (setpoint minus the dead band), Last Resort loads shall be restored based on the largest load number first.

NOTE: Last Resort loads remain shed for at least the configured Minimum Shed Time and no longer than twice the configured Minimum Shed Time (which is the Maximum Shed Time).

DLC Load Shedding and Restoring Methods

DLC monitors the current KW levels at every staging interval and averages it over a period of time.

- If the current KW demand is above the configured peak setpoint, then DLC sheds loads at defined intervals until the demand drops below the peak setpoint.
- If the KW demand drops below the normal level (peak setpoint minus the dead band), then the previously shed loads are actively restored at every staging interval until the KW demand rises back above the normal level.

Load Shedding Method

1. The DLC starts shedding by first searching for all the Off Continuous loads that are eligible for shedding.
2. Then, it first sheds the lowest numbered Off Continuous load and waits the staging interval to see if the demand has reduced.
3. If the demand is still above the peak setpoint, then DLC sheds another Off Continuous load. This process continues until the demand is well within the peak setpoint limits.
4. If the demand has still not reduced, then DLC searches for all the Rotated loads followed by the Last Resort loads and starts shedding them in order.

Load Restoring Method

- If the demand drops below the normal level, then the loads that are currently shed will be actively restored one at a time, every staging interval, until the demand reaches the normal level. When restoring loads, DLC, on priority, searches and restores:
 - The Last resort loads (highest load number to lowest)
 - Followed by the Rotating loads where the load that has been shed for the longest period is restored first.
 - Then the Off Continuous loads where the load restoration goes from highest load number to the lowest load number.
- Loads are restored every staging interval if the override condition becomes true or the maximum shed time has been met. All loads that satisfy these conditions are restored.

NOTES:

- Excel 15B raises a system alarm when all the available loads are shed and still the demand exceeds the peak setpoint.
- Excel 15B also raises an RTN when the current KW value falls below the peak setpoint KW value.

Configuring DLC Load Settings

Minimum Access Level Required: Building Engineer

Procedure

- Click “DLC” on the Excel 15B menu bar. By default, the “DLC::Status” page is displayed with the current status details of all the load assignments.
- Click the “Configure” tab to view the “DLC::Configure” page.

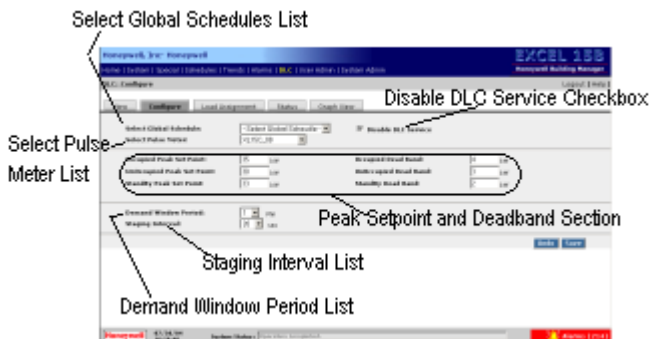


Fig. 56. DLC::Configure Page

- The parameters that are required to configure a DLC load are displayed along with their default settings. You can retain the settings or change the values to suit your requirements.
- From the “Global Schedule” list, select the Global Schedule that the configured DLC load must follow. The “Global Schedule” list displays the list of all the configured Master, Shifted and Follower Schedules.
- From the “Pulse Meter” list, select the Excel 15C object that has a pulse meter connected to it. All the Excel 15Cs that are currently available on the Lon network are discovered by Excel 15B and displayed in the list. Excel 15B reads the KW value from the selected Excel 15C object.

NOTE: You can configure the site using LonSpec™ such that a particular Excel 15C Plant controller acts as a power master and gets the periodic update of power consumption from other pulse meters connected to different Excel 15Cs in the building. These Excel 15Cs act as slaves for the selected power master.

- Configuring the Peak Setpoint and Dead Band
 - Enter the maximum setpoint values in the following:
 - “Occupied Peak Setpoint Value” box
 - “UnOccupied Peak Setpoint Value” box
 - “Standby Peak Setpoint Value” box.

The values that you enter represent the maximum power consumptions of an object in the “Occupied”, “Unoccupied”, or “Standby” states.

NOTE: The valid peak setpoint range for the “Occupied”, “UnOccupied” and “Standby” peak setpoints is “0” to “6000” KW.

- Enter the dead band values in the following:
 - “Occupied Dead Band” box
 - “UnOccupied Dead Band” box
 - “Standby Dead Band” box

The values entered indicates that when the object is at that particular dead band and in an “Occupied”, “UnOccupied”, or “Standby” state, it can neither be shed nor restored.

NOTE: The valid dead band range for the “Occupied”, “UnOccupied” and “Standby” dead band states is “1” to “1000” KW. If the setpoints are less than the corresponding dead bands, then an error message is displayed.

- Select the demand window period from the “Demand Window Period” list. The valid range is in steps of 1 minute to 15 minutes. It is the time interval over which the instantaneous KW demand is averaged to determine the effective KW peak demand value. This value, in turn drives the DLC to shed or restore loads. The demand value is read from the pulse meter for every 15 seconds and the average demand value calculated accordingly.
- Select the staging interval from the “Staging Interval” list. The valid range is in steps of 20 seconds to 120 seconds. Excel 15B collects the KW samples for every 15 seconds and at the end of a staging interval, compares the power consumption with that of the active demand setpoint and the dead band.
- Click “Save” to update the DLC configuration in Excel 15B database. This configuration is applied across all objects on the network until unless modified later. Click “Undo” if you want to cancel all the latest selections and entries.



CAUTION

If you modify a DLC configuration, then:

Excel 15B immediately sends a restore command to all XL 10 and XL 15C objects. It also restores all the loads that were part of the previous DLC configuration that are currently observing their minimum shed time.

The DLC graphing and DLC KW data logging (into the .csv file) restart. All the previous accumulated graph data is lost.

Disabling DLC Service

Minimum Access Level Required: Building Engineer

Procedure

On the “DLC::Configure” page (refer to Fig. 56), select the “DLC Disable Service” checkbox if you do not want to apply the DLC feature to the objects on the network. When DLC service is disabled, all the loads will be immediately restored to their normal status even if they are observing their minimum shed time.

Assigning DLC Loads to External Objects

Minimum Access Level Required: Building Engineer

Procedure

1. Click “DLC” on the Excel 15B menu bar. By default, the “DLC::Status” page is displayed with the current status details of all the load assignments.
2. Click the “Load Assignment” tab. The “DLC::Load Assignment” page is displayed. You can configure a load and assign it to different Excel 10 and Excel 15C external objects.



CAUTION

When you change a DLC load assignment, the DLC graphing and DLC KW data logging (into the .csv file) restart, all the previous accumulated graph data is lost.

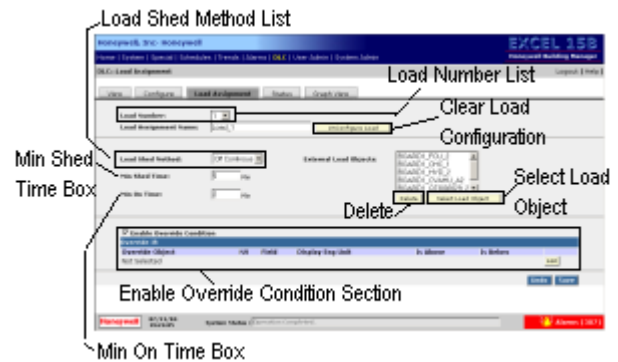


Fig. 57. DLC::Load Assignment Page

3. Select the load number from the “Load Number” list.
4. Enter a unique name for the load assignment in the “Load Assignment Name” box.
5. From the “Load Shed Method” list, select the shed method that you want to use on the configured load. On priority basis, Excel 15B will first look for the “Off Continuous” load, followed by the “Rotating” load and then the “Last Resort” load that are assigned to external objects and shed them accordingly.

Table 14. Load Shed Method Configurations.

If you have selected the Load Shed Method as...	Then...
“Off Continuous” load	<ul style="list-style-type: none"> • In the “Minimum Shed Time” box, enter the minimum length of time a load must be off after it is shed by the DLC. • In the “Minimum On Time” box, enter the minimum length of time the load must be active before it can be shed or restored by the DLC. <p>NOTE: The valid range for the minimum shed time and minimum on time is “0” to “99” minutes.</p>
“Rotating” load	<ul style="list-style-type: none"> • In the “Minimum Shed Time” box, enter the minimum length of time a load must be off after it is shed by the DLC. • In the “Maximum Shed Time” box, enter the maximum time a load that is shed by the DLC, must remain off or inactive. <p>NOTE: The maximum shed time must always be greater than the minimum shed time. A load cannot be in the shed state for more than the configured maximum shed time. It can be restored after the minimum shed time has elapsed (less than the setpoint minus the dead band).</p> <ul style="list-style-type: none"> • In the “Minimum On Time” box, enter the minimum time that the load must be active ('On').
“Last Resort” load	<p>In the “Minimum Shed Time” box, enter the minimum length of time a load must be off after it is shed by the DLC.</p> <p>NOTE: The maximum shed time for a Last Resort load is twice its minimum shed time and is displayed as disabled text in the “Maximum Shed Time” box.</p>

NOTE: There is no maximum shed time for Off Continuous loads. If a load is shed, it must be inactive for the configured minimum shed time even if the demand is below the normal level. Before a load can be shed, it must be active ('On') for the specified period (Minimum On Time) even if the demand exceeds the peak setpoint during that period.

6. Selecting the External Load Objects:

After configuring a load, you need to assign it to an external load object, which in turn controls the electrical loads.

- a. Click the "Select Load Object" that is displayed at the bottom of the "External Load Objects" list box. The "Select Load Object" window appears. All the Excel 15B supported external objects are displayed in the "Available:" list.

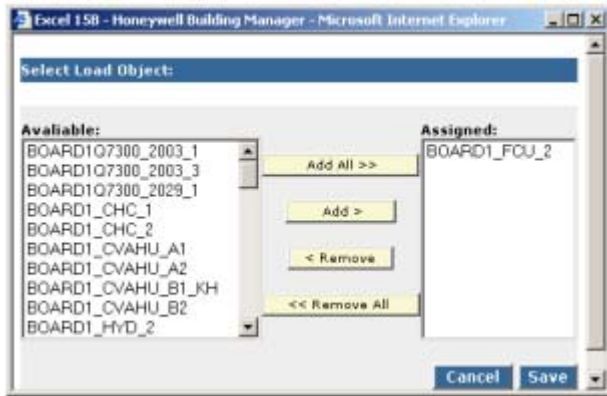


Fig. 58. Select Load Object Window

- b. Select the object to which you want to assign the load and click "Add >". (Click "Add All >>" to assign the configured load to all the objects in the list.) The selected object is displayed in the "Assigned:" list.
- c. To unassign the configured load on the selected object, click "< Remove". The object is removed from the "Assigned:" list and is displayed back in the "Available:" list. (Click "<< Remove All" for unassigning the configured load to all the objects in the Assigned: list.)

NOTE: You can also hold the <Ctrl> key to select multiple objects for assigning/unassigning loads.

- d. Click "Save" to view the selected external object in the "External Load Object" list box. Click "Cancel" to close the window without updating the selection. If you want to remove the selected object from the "External Load Object" list box, click "Delete".

7. After ensuring that the configured load is correct, click "Save" to update the load assignment configuration in Excel 15B database. Click "Undo" if you want to cancel all the latest selections and entries.

CLEARING THE LOAD ASSIGNMENTS

Click "Clear Load Configuration" to cancel the configured load assignment. You are prompted to confirm your task. All the devices that are assigned to the current configuration are released.

NOTE: You can also configure loads and assign them to objects off-line from LonSpec™ and download the configuration to Excel 15B. For more information, refer to LonSpec™ online help.

Enabling Override Condition

Minimum Access Level Required: Building Engineer

Description

You can enable or disable the override condition when configuring a DLC load object assignment. The load that has the override option enabled will be overridden if the selected override point is satisfying the specified conditions. Each load can have only one override condition configured. All the loads with the override feature enabled are not shed by the DLC.

Important

You have to choose an object point after selecting the "Enable Override Condition" checkbox if you want to save the load assignment. The following message is displayed if you try to save the load assignment without selecting an object point - "Please select override point or disable the override condition and then save."

Procedure

- Click "DLC" on the Excel 15B menu bar. By default, the "DLC::Status" page is displayed with the current status details of all the load assignments.
- Click the "Load Assignment" tab to view the "DLC::Load Assignment" page. For more information on configuring and assigning loads, refer to ["Assigning DLC Loads to External Objects" on page 47](#).
- Select the "Enable Override Condition" checkbox if you do not want DLC to shed loads on selected object points (refer to [Fig. 57](#)).
- Click "Edit" displayed on the bottom right corner of the "DLC::Load Assignment" page. The "Select Override Point" window appears. The "Device/Object List" displays the list of all Excel 15B supported devices and control objects.
- Follow steps [5.c-5.f](#) mentioned in ["Selecting and Configuring a Databox" \(refer to "Creating a Special Display" on page 43\)](#). Based on the point selected, refer to the following table to enter or select the override condition.

Table 15. Data Points Selection

Data Point	What must be done...
Analog point	Enter the maximum and minimum limits in the "If Above" and "If Below" boxes. These conditions specify that if the selected point value is above the maximum limit or is below the minimum limit, then the DLC on that load must be overridden.
Digital point	Select the condition from the "If Equals" list. The selection indicates that if the selected point value is either "True" or "False", then the DLC on that load must be overridden.
SNVT point	Select the state from the "If Equals" list. The selection indicates that if the selected point value is either in the "Occupied", "Unoccupied", "Bypass", "Standby" or "Null" state, then the DLC on that load must be overridden.

- After filling the details for the selected point (refer to the preceding table) click "Select". The selected point's details are displayed under the respective column headings in the "Override If:" section (refer to Fig. 57).
- Click "Save" to save the new load assignment or update the modified load assignment.
- Click "Undo" to cancel all the latest selections and entries.

Creating a User Defined Trend

Minimum Access Level Required: Chief Operator

Click "Trends" on the Excel 15B menu bar to create, update, or view a user defined trend. For more information on viewing the user defined trend in graph view or data view, refer to "Viewing a User Defined Trend in Graphical View" on page 33 and "Viewing a User Defined Trend in Data View" on page 33.

NOTE: You can also create or update a user defined trend off-line from LonSpec™ and download the configuration to Excel 15B. For more information, refer to LonSpec™ online help.

Description

You can configure up to 100 individual trend logs. Each trend log contains 10 trend points. A trend point can be a data point from any supported LonWorks® network device. A data point can be used in multiple trend logs.

You can configure each trend log to store a minimum of 100 and a maximum of 10,000 trend samples (records). You can also configure the interval at which a sample is logged. A trend sample consists of the date or time stamp of the sample reading and the data read from each point at that time. The "Trend Type" identifies the type of trend created and by default displays it as "User Defined Trends". You can disable the trend log by selecting the "Disable this User Defined Trend" checkbox. Later, when required you can enable the trend by clearing the checkbox.

Procedure

- Click "Trends" on the Excel 15B menu bar. The "Default Trends::Graphical View" page is displayed with the details of the first default trend.



Fig. 59. Default Trends::Graphical View Page

- Click "Create Trend". The "User Defined Trends::Create New User Defined Trend" page is displayed.
 - If you are creating the first user defined trend, then the following message appears on top of the page - **"No User Trends configured in the System"**.

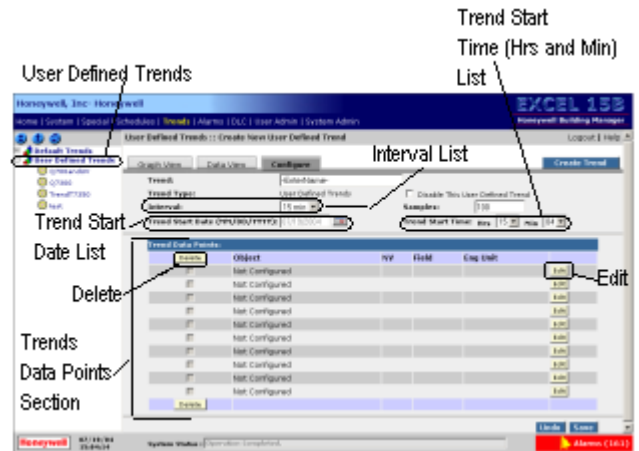


Fig. 60. User Defined Trends::Create New User Defined Trend Page

- Enter a unique name for the trend in the "Trend Name" box.
- In the "Samples" box, enter the number of samples that Excel 15B must log for this trend. The following message is displayed if the sample number entered is beyond the specified limit - **"The number of samples that you have entered is not valid. Please enter an integer number between 100 and 10000"**.
- From the "Interval" list, select the interval at which Excel 15B has to read the points. The minimum interval is "15 secs" and the maximum is "24 hrs". There will be variations in logging the trend samples if the interval selected is below 15 minutes. The following message is displayed - **"There may be variations in the logging interval if there are many trend points configured in the system with less than 15 min interval"**.
- Click the "Calendar" icon adjacent to the "Trend Start Date" box to select the start date for Excel 15B to log the samples. You can also select a later date; Excel 15B will start logging the samples on the specified date.
- Select the start time from the "Hrs" and "Min" lists adjacent to "Trend Start Time".

8. To configure a trend data point, click “Edit” adjacent to any row in the “Trend Data Points” section. The “Select Trend Point” window appears. The “Device/Object List” displays the list of all Excel 15B supported devices and control objects.

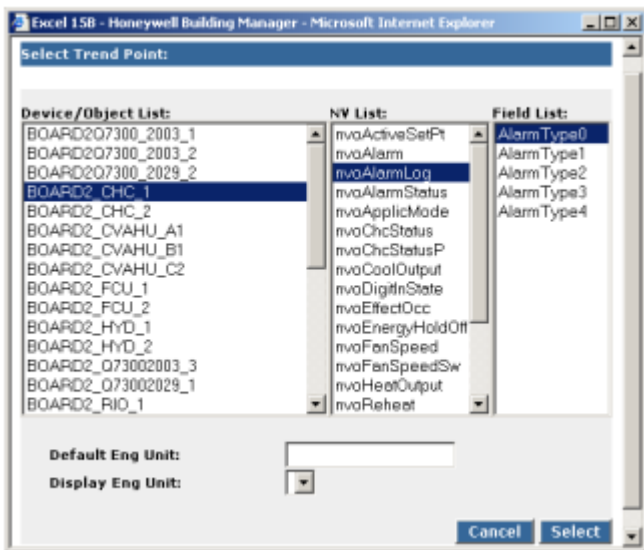


Fig. 61. Select Trend Point Window

9. To select the device or object whose samples have to be logged by Excel 15B, follow steps 5c-5f mentioned for “**Selecting and Configuring a Databox**” (refer to “**Creating a Special Display**” on page 43).

NOTE: Duplicate trend point selections are not allowed. Excel 15B displays the following error message: “Unknown error. Please consult your System Administrator” if you select the same trend point twice with the same engineering unit.

10. Click “Select” to view the selected device or object details in the “Trends Data Points” section.

Trend Data Points:				
Object	NV	Field	Engg Unit	
BOARD2_CVHU_1	nvaSpaceTemp	SrghnTemp	deg C	edit
Not Configured				edit

11. Move to the next row, click “Edit” and repeat the above mentioned steps.
12. After configuring the trend samples, click “Save” to update the log in Excel 15B. Click “Undo” to cancel all the latest selections and entries. If you want to delete a data point record, select its corresponding checkbox and click “Delete”.

• Important

If Excel 15B is fully loaded, configuring a narrow sampling interval may not achieve the intended results.

Configuring a User Defined Trend

Minimum Access Level Required: Chief Operator

Procedure

1. Click “Trends” on the Excel 15B menu bar. The “Default Trends::Graphical View” page is displayed with the details of the first default trend.
2. Select the user defined trend that you want to modify from the list displayed under “User Defined Trends” icon. The “User Defined Trends::Graphical View” page is displayed with the graph view of the selected trend.
3. Click the “Configure” tab to modify the trend on the “User Defined Trends::Configure” page.

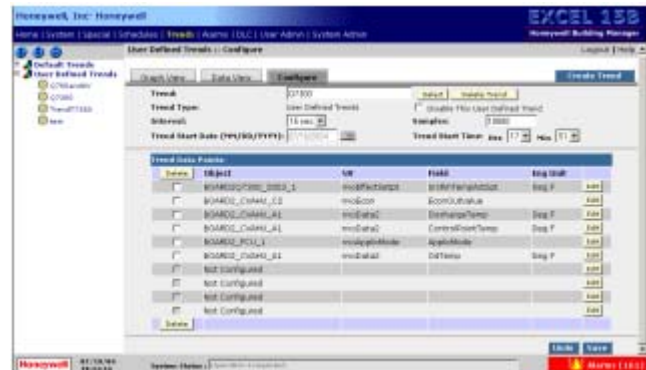


Fig. 62. User Defined Trends::Configure Page

4. Make the required changes to the selected trend or click “Select” to choose another trend from the list displayed in the “Select Trend From List” window.
5. Click “Save” to update the modified user defined trend in Excel 15B. The following message is displayed - ***If you have modified any data other than the Trend Name or the Trend Status (enable/disable), you will lose the collected trend data. Do you want to continue saving modified trend configuration?***
6. Click “OK” to proceed. Click “Undo” to cancel all the latest selections and entries.

DELETING A USER DEFINED TREND

To delete a user defined trend, click “Delete Trend” on the “User Defined Trends::Configure” page. The deleted trend is removed from Excel 15B and also from the list displayed under the “User Defined Trends” icon.

Configuring Alarms

Click “Alarms” on the Excel 15B menu bar to view and manage alarms including configured alarms. For more information on viewing and managing alarms, refer to “**Viewing Alarm Conditions**” on page 27.

Description

There can be an alarm condition when the field value read from a NV is beyond the specified limit. You can configure alarms on such points. This alarm condition gets logged into Excel 15B database and appears on the “Alarms” page as an unacknowledged alarm.

These alarms are not system or device generated as the situation selected by you is not a part of the standard set of conditions that trigger an alarm within a device. You can

monitor and generate alarms based on the specified pre-delay time. The alarms configured depends on the type of NV selected for a device. At any given point in time, an alarm condition can either be in the RTN, acknowledged, or unacknowledged state.

Alarm priorities can be set for each type of alarm condition. The alarm priority can range from “1” to “8” and is used to determine e-mail alarm message recipients. High priority alarms have a higher reporting priority. For example, system alarms (e.g., low battery) are always high priority. As alarms report, associated data (user address, alarm text, time and date) is stored in data files.

Device alarm priority is set per device. All alarms from a device are directed to the concerned e-mail alarm recipient set for that priority. Configured alarm types are also given priorities.

E-mail alarm messages can be sent to a maximum of eight e-mail addresses. Any e-mail alarm message can be sent to any combination of the eight e-mail addresses based on the priority assigned. However, individual alarm messages cannot be directed to a specific e-mail address.

NOTE: You can also create an analog alarm, digital alarm, or SNVT alarm off-line from LonSpec™ and download the configuration to Excel 15B. For more information, refer to LonSpec™ online help.

Creating an Analog Alarm Condition

Procedure

Access Level Required: Chief Operator

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed with details of all alarms generated.
2. Click “Configure Alarm”. The “Alarms::Summary” page is displayed with the summary of all configured alarms.
3. Click “Create Alarm”. The “Alarms::Create New Alarm” page is displayed.

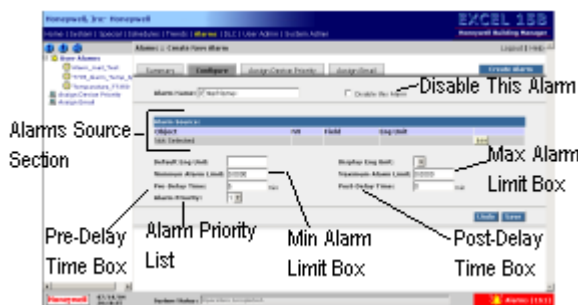


Fig. 63. Alarms::Create New Alarm (Analog Alarm) Page

4. Enter a unique alarm name in the “Alarm Name” box.
5. To select the alarm source, click “Edit” adjacent to any row in the “Alarm Source” section. The “Select Alarm Point” window appears displaying the list of devices or objects, under “Device/Object List”. The “Device/Object List” displays the list of all Excel 15B supported devices and control objects.

6. To select the device or object from which the alarm has to be generated, follow steps 5.c-5.f mentioned for “Selecting and Configuring a Databox” (refer to “Creating a Special Display” on page 43).
7. Click “Select”. The alarm source details appear under the respective column headings in the “Alarm Source” section on the “Alarms::Create New Alarm” page.
8. Enter the minimum and maximum specification limits in the “Minimum Alarm Limit” box and “Maximum Alarm Limit” box. You need to enter the specification limits only for analog points; the valid range is “-1000000” to “+1000000”. An alarm is generated if the points or values read is within the above specified limits.
9. Enter the pre-delay time in the “Pre-Delay Time” box. The pre-delay time determines the time for which the alarm condition is monitored. An alarm is generated if the condition does not return to normal within the specified time limit.
10. Enter the post-delay time in the “Post-Delay Time” box. The post-delay time determines the time for which the alarm condition is monitored after the condition returns to normal. If the condition stays normal for the specified amount of time, a return to normal alarm is generated and the time of return to normal is stamped and displayed on the “Alarms” page.

NOTE: The valid range is “0” to “500” minutes.

11. Select the priority level for the alarm from the “Alarm Priority” list. Configured alarms can be given a priority from “1” to “8”.
12. Click “Save”. The alarm configuration is written to Excel 15B database. The new alarm configuration appears in the list displayed under “User Alarms” icon and also on the “Alarms::Summary” page. Click “Undo” to cancel all the latest selections and entries.

Creating a Digital Alarm Condition

Minimum Access Level Required: Chief Operator

Procedure

1. Follow steps 1-7 mentioned in “Creating an Analog Alarm Condition” on page 51.

NOTE: There is no Display Unit for a digital alarm.

2. From the “Select State for Alarm” list, select the state (the value or point) on which the alarm condition needs to be generated.

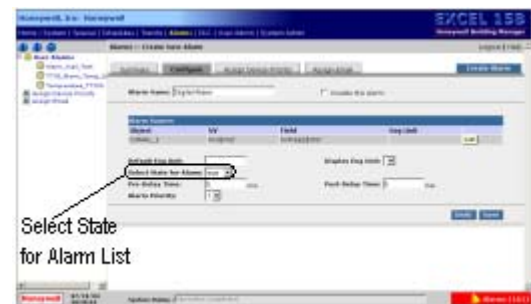


Fig. 64. Alarms::Create New Alarm (Digital Alarm) Page

- Follow steps 9-12 mentioned in “Creating an Analog Alarm Condition” on page 51.

Creating a SNVT Alarm Condition

Minimum Access Level Required: Chief Operator

Procedure

- Follow steps 1-7 mentioned in “Creating an Analog Alarm Condition” on page 51.

NOTE: There is no Display Unit for a digital alarm.

- From the “Select State for Alarm” list, select the state (the value or point) on which the alarm condition should occur. Following can be the states displayed for an enumerated point: “Occupied”, “UnOccupied”, “Bypass”, “Standby” and “Null”.

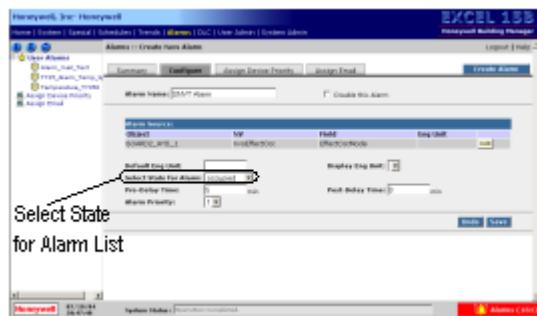


Fig. 65. Alarms::Create New Alarm (SNVT Alarm) Page

- Follow steps 9-12 mentioned in “Creating an Analog Alarm Condition” on page 51.

NOTE: You can disable an analog, digital, or SNVT alarm for a temporary period by selecting the “Select Disable this Alarm” checkbox.

Viewing Summary of Configured Alarm Conditions

Minimum Access Level Required: Chief Operator

Description

You can view the summary of all configured alarm conditions on the “Alarms::Summary” page.

NOTE: You can also view the summary of all configured alarms off-line from LonSpec™. For more information, refer to LonSpec™ online help.

Procedure

- Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed.
- Click “Configure Alarm”. The “Alarms::Summary” page is displayed with the summary of all configured alarm conditions.

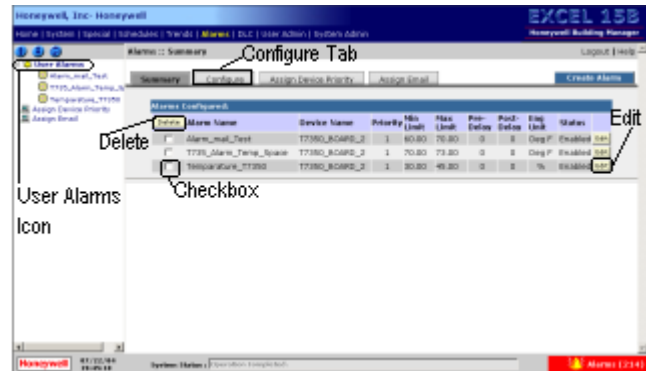


Fig. 66. Alarms::Summary Page

Each row displays a configured alarm record and every column heading identifies with a section of the record.

NOTE: To directly view and modify the details of a configured alarm condition, select the alarm condition from the list displayed under “User Alarms” icon. For more information on modifying or deleting a configured alarm condition, refer to “Configuring Alarms” on page 50.

Updating a Configured Alarm Condition

Minimum Access Level Required: Chief Operator

Procedure

- Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed with details of all alarms generated.
- Click “Configure Alarm”. The “Alarms::Summary” page is displayed with the summary of all configured alarms (refer to Fig. 66).
- Click “Edit” that is available for the configured alarm that you want to modify. The “Alarms::Configure” page is displayed with the selected configured alarm details.
- Make the necessary modifications and click “Save” to update the configured alarm condition with the latest modifications. Click “Undo” to cancel all the latest selections and entries.

NOTE: You can also select the configured alarm condition that you want to modify, from the list displayed under the “User Alarms” icon.

DELETING A CONFIGURED ALARM CONDITION

Procedure

Click “Alarms” on the Excel 15B menu bar. Then, follow one of the succeeding steps (1,2, or 3) to delete a configured alarm condition.

1. On the “Alarms” page, click “Configure Alarms”.

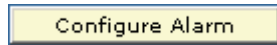


Fig. 67. Alarms Page - Configure Alarm

The “Alarms::Summary” page is displayed (refer to Fig. 66).

- a. Select the checkbox adjacent to the alarm record that you want to delete.
- b. Click “Delete”.

OR

- a. On the “Alarms::Summary” page, click “Edit” adjacent to the configured alarm that you want to modify or delete. The “Alarms::Configure” page is displayed with the details of the selected alarm condition.
 - b. Click “Delete Alarm”.
2. On the “Alarms::Summary” page, click “Configure” tab. The “Alarms::Configure” page is displayed.



Fig. 68. Alarms::Configure Page

- a. Click “Select”. The “Select Alarm From List” window appears.
 - b. From the list, choose the alarm that you want to delete.
 - c. Click “Delete Alarm”.
3. From the list displayed under “User Alarms” icon, select the alarm that you want to delete. The “Alarms::Configure” page is displayed with the details of the selected alarm condition. Click “Delete Alarm”.

Assigning Priority to a Device

Minimum Access Level Required: Chief Operator

Description

Excel 15B reports system alarms generated by supported devices. Excel 15B also generates alarms. These are called the default alarms. Priority settings are used to determine the e-mail addresses that are notified when an alarm occurs.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed with details of all alarms generated.
2. Click “Configure Alarm”. The “Alarms::Summary” page is displayed with the summary of all configured alarms.
3. Click “Assign Device Priority” tab to assign priority to a device on the “Alarms::Device Priority” page.

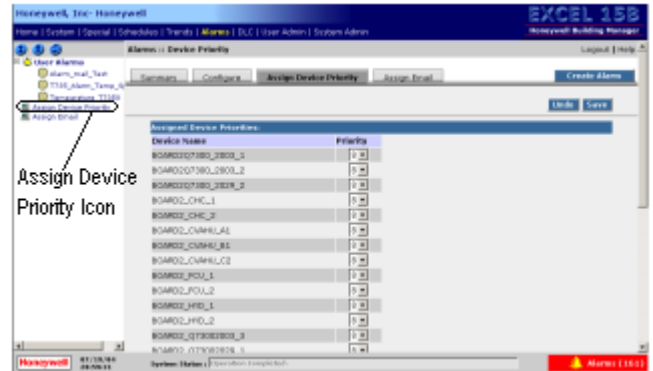


Fig. 69. Alarms::Device Priority Page

NOTE: You can also click the “Assign Device Priority” icon to view the “Alarms::Device Priority” page.

4. In the “Assigned Device Priorities” section, go to a device under “Device Name” and select its priority level from the “Priority” list.
5. Click “Save” to update the priority level for the selected device. Whenever an alarm condition occurs on one of the devices, the alarm condition is displayed on the “Alarms” page along with the priority level and the device name. Click “Undo” to cancel all the latest selections and entries.

Assigning E-mail Address for Alarm Conditions

Minimum Access Level Required: Chief Operator

Description

A maximum of eight e-mail addresses can be configured with any combination of the eight alarm priorities for e-mail notification. When an alarm is generated, an e-mail message is sent to all e-mail addresses configured with the priority of that alarm. The messages are sent in the language selected while assigning e-mail addresses.

Procedure

1. Click “Alarms” on the Excel 15B menu bar. The “Alarms” page is displayed with details of all alarms generated.
2. Click “Configure Alarm”. The “Alarms::Summary” page is displayed with the summary of all configured alarms.

- Click the “Assign Email” tab to view the “Alarms::Assign Email” page. Any configured e-mail address is already displayed on the page.

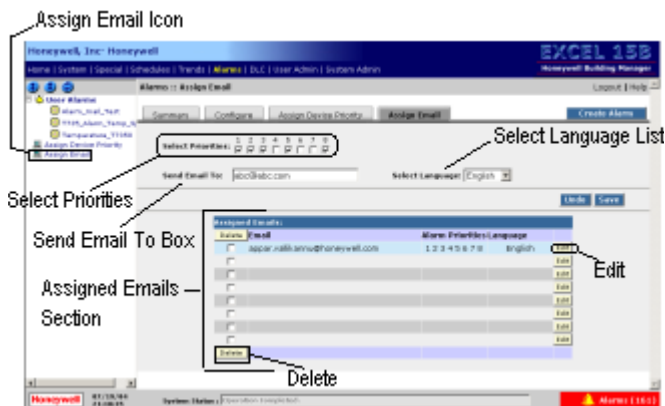


Fig. 70. Alarms::Assign Email Page

NOTE: You can also click the “Assign Email” icon to view the “Alarms::Assign Email” page.

- The eight priority levels are grouped under “Select Priorities”. Select the checkboxes for the alarm priorities that will initiate the alarm notification to the e-mail address.
- Enter the concerned user’s e-mail address in the “Send Email To” box.
- From the “Select Language” list, choose the language to communicate the alarm details to the e-mail recipient. (The alarm name will be in “US English” and not displayed in the user’s preferred language.)

- Click “Save” to save the alarm notification e-mail assignments. The configured e-mail address appears in the “Assigned Emails” section. Click “Undo” to cancel all the latest selections and entries.

NOTE: Select a blank row in the “Assigned Emails” section every time you assign alarm priorities to a new e-mail address. This will prevent the previous e-mail address from being overwritten.

Updating the Assigned E-mail Address

Minimum Access Level Required: Chief Operator

Procedure

- On the “Alarms::Assign Email” page, go to the “Assigned Emails” section (refer to **Fig.70**).
- Click “Edit” that is adjacent to the e-mail address that you want to modify (you can also double-click the e-mail address).
- Click “Save” after making changes to update the e-mail address.

DELETING THE ASSIGNED E-MAIL ADDRESS

Procedure

- On the “Alarms::Assign Email” page, go to the “Assigned Emails” section (refer to **Fig.70**).
- Select the checkbox that is adjacent to the e-mail address that you want to delete.
- Click “Delete”. Subsequently, the deleted e-mail address will not receive alarm notification. For deleting multiple e-mail addresses, select the checkboxes that are adjacent to the alarm conditions and click “Delete”.

ERROR REFERENCE

Description

The section is divided into the following sub-sections:

- Error Messages displayed for general tasks - the error messages that are displayed for tasks performed at all access levels are detailed here.
- Error Messages displayed for specific tasks - the error messages that are displayed for specific tasks performed by different access levels under each Excel 15B menu are detailed here.
- Error Messages displayed when configuring Excel 15B - the error messages that are displayed when configuring Excel 15B are detailed here.

The error messages are not alphabetically sorted.

Error Messages Displayed for General Tasks

Description

The following are the error messages that are displayed for tasks performed by all access levels. Examples of such tasks are: Logging into Excel 15B and Changing your password.

Error Messages

- User ID you have entered is not valid. Please enter alphanumeric, '-' and '_' characters only.**
Cause: The error message is displayed when you enter an invalid user ID.
Solution: Enter a user ID that has alphanumeric characters including '-' and '_'.
- Password you have entered is not valid. Please avoid entering control characters.**
Cause: The error message is displayed when you enter an invalid password.
Solution: Enter a password that has alphanumeric characters including '-' and '_'.
- The New Password matches with the Old Password. Please enter a different password.**
Cause: The error message is displayed when the new password that you have entered matches with the old password.
Solution: Enter a unique new password that is different from the existing old password.
- New Password you have entered is not valid. Please try again.**
Cause: The error message is displayed if the new password that you have entered contains control characters or more than 30 characters.
Solution: Enter a password that is an alphanumeric combination of maximum 30 characters including '-' and '_'.
- Confirm New Password you have entered is not valid. Please try again.**
Cause: The error message is displayed if the password that you have entered in the "Confirm Password" box contains control characters or more than 30 characters.
Solution: Enter a password that is an alphanumeric combination of maximum 30 characters including '-' and '_'.
- Password and Confirm Password should be minimum 5 characters in length.**
Cause: The error message is displayed if the new password and the password that you enter for confirmation are not the same. It might also be that the new password and the password that you enter for confirmation are less than five characters.
Solution: Enter a password of at least five characters in the "New Password" and "Confirm Password" boxes.
- The User ID or the Password is incorrect.**
Cause: The error message is displayed when you enter a wrong user ID or password on the "Login" page. The message is also displayed if you try to login using a user ID that is already deleted by another user.
Solution: Enter the correct user ID and password on the "Login" page. The user ID must be the one provided to you by your System Administrator.
- Enter User Name.**
Cause: The error message is displayed if you leave the "User ID" or "Password" boxes empty when logging into Excel 15B.
Solution: Enter the user ID or password that is created for your profile by the System Administrator.
- Enter Password.**
Cause: The error message is displayed if you leave the "User ID" or "Password" boxes empty when logging into Excel 15B.
Solution: Enter the user ID or password that is created for your profile by the System Administrator.
- Your account is currently locked. Please contact System Administrator.**
Cause: The message is displayed if you enter a wrong password three consecutive times in two minutes. For security reasons, Excel 15B locks your account and will not allow you to login immediately.
Solution: Contact your System Administrator to get your account unlocked.
- Old Password you have entered is incorrect. Please try again.**
Cause: The message is displayed if you leave the "Old Password" box empty or enter a wrong password as the old password.
Solution: Enter the password that is created for your profile by the System Administrator in the "Old Password" box; it must be the same password that you use to log into Excel 15B.
- You are accessing an invalid session or your current session is timed out. Please login again.**
Cause: Excel 15B ends your login session after 30 minutes of inactivity that is if you leave the application idle for 30 minutes without performing any activity.
Solution: After 30 minutes, enter your user ID and password to log into Excel 15B again.

- 13. Excel 15B system access is blocked currently for maintenance. Please try after some time.**

Cause: The message is displayed if LonSpec™ (commissioning tool) is connected to Excel 15B.

Solution: Wait till the connection is released and then try to log into Excel 15B. If the application is idle for 30 minutes, the LonSpec™-Excel 15B connection is automatically released.

Errors Messages Displayed for Specific Tasks

Description

A description of all the error messages that are generated for tasks performed under different Excel 15B menus are given under the respective headings. Example - Under the heading "Managing Devices" - all the error messages that are displayed for tasks performed under the "System" menu are given an appropriate Cause and Solution, where required.

Managing Devices

Description

The following are the error messages that are displayed for tasks performed under the "System" menu. Appropriate Cause and Solution are provided where required.

Error Messages

- 14. The value that you have entered for Cooling Occupied is not valid. Please enter value between (50 °F - 95 °F).**
Cause: The error message is displayed for all Excel 10 and Q7300 devices if the value that you entered for Cooling Occupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 50 °F-95 °F range.
- 15. The value that you have entered for Cooling Standby is not valid. Please enter value between (50 °F-95 °F).**
Cause: The error message is displayed for all Excel 10 and Q7300 devices if the value that you entered for Cooling Standby is not within the specified range.
Solution: Enter a Cooling Standby value that is within the 50 °F-95 °F range.
- 16. The value that you have entered for Cooling Unoccupied is not valid. Please enter value between (50 °F-95 °F).**
Cause: The error message is displayed for all Excel 10 and Q7300 devices if the value that you entered for Cooling UnOccupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 50 °F-95 °F range.
- 17. The value that you have entered for Heating Occupied is not valid. Please enter value between (50 °F-95 °F).**
Cause: The error message is displayed for all Excel 10 and Q7300 devices if the value that you entered for Heating Occupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 50 °F-95 °F range.
- 18. The value that you have entered for Heating Standby is not valid. Please enter value between (50 °F-95 °F).**
Cause: The error message is displayed for all Excel 10 and Q7300 devices if the value that you entered for Heating Standby is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 50 °F-95 °F range.
- 19. The value that you have entered for Heating Unoccupied is not valid. Please enter value between (50 °F-95 °F).**
Cause: The error message is displayed for all Excel 10 and Q7300 devices if the value that you entered for Heating UnOccupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 50 °F-95 °F range.
- 20. The value that you have entered for Cooling Occupied is not valid. Please enter value between (45 °F - 99 °F).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Cooling Occupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 45 °F-99°F range.
- 21. The value that you have entered for Cooling StandBy is not valid. Please enter value between (45 °F - 99 °F).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Cooling Standby is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 45 °F-99 °F range.
- 22. The value that you have entered for Cooling UnOccupied is not valid. Please enter value between (45 °F - 99 °F).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Cooling UnOccupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 45 °F-99 °F range.
- 23. The value that you have entered for Heating Occupied is not valid. Please enter value between (40 °F - 90 °F).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Heating Occupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 40 °F-90 °F range.
- 24. The value that you have entered for Heating StandBy is not valid. Please enter value between (40 °F - 90 °F).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Heating Standby is not within the specified range.
Solution: Enter a Heating Standby value that is within the 40 °F-90 °F range.

- 25. The value that you have entered for Heating UnOccupied is not valid. Please enter value between (40 °F - 90 °F).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Heating UnOccupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 40 °F-90 °F range.
- 26. The value that you have entered for Cooling Occupied is not valid. Please enter value between (7.2 °C - 37.2 °C).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Cooling Occupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 7.2 °C - 37.2 °C range.
- 27. The value that you have entered for Cooling StandBy is not valid. Please enter value between (7.2 °C - 37.2 °C).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Cooling Standby is not within the specified range.
Solution: Enter a Cooling Standby value that is within the 7.2 °C - 37.2 °C range.
- 28. The value that you have entered for Cooling UnOccupied is not valid. Please enter value between (7.2 °C - 37.2 °C).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Cooling UnOccupied is not within the specified range.
Solution: Enter a Cooling Occupied value that is within the 7.2 °C - 37.2 °C range.
- 29. The value that you have entered for Heating Occupied is not valid. Please enter value between (4.4 °C - 32.2 °C).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Heating Occupied is not within the specified range.
Solution: Enter a Heating Occupied value that is within the 4.4 °C - 32.2 °C range.
- 30. The value that you have entered for Heating StandBy is not valid. Please enter value between (4.4 °C - 32.2 °C).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Heating Standby is not within the specified range.
Solution: Enter a Heating Standby value that is within the 4.4 °C - 32.2 °C range.
- 31. The value that you have entered for Heating UnOccupied is not valid. Please enter value between (4.4 °C - 32.2 °C).**
Cause: The error message is displayed for all T7350 devices if the value that you entered for Heating UnOccupied is not within the specified range.
Solution: Enter a Heating UnOccupied value that is within the 4.4 °C - 32.2 °C range.
- 32. Occupied Heat should be less or equal to Occupied Cool.**
Cause: The error message is displayed for all Excel 10s and Q7300 devices if the Occupied Heat value that you entered is greater than the Occupied Cool value.
Solution: Enter a occupied heat value that is less than or equal to the occupied cool value.
- 33. Standby Heat should be less or equal to Standby Cool.**
Cause: The error message is displayed for all Excel 10s and Q7300 devices if the Standby Heat value that you have entered is greater than the Standby Cool value.
Solution: Enter a Standby Heat value that is less than or equal to the Standby Cool value.
- 34. Occupied Cool should be less or equal to Unoccupied Cool.**
Cause: The error message is displayed for all Excel 10s and Q7300 devices if the Occupied Cool value that you have entered is greater than the UnOccupied Cool value.
Solution: Enter an Occupied Cool value that is less than or equal to the UnOccupied Cool value.
- 35. Unoccupied Heat should be less or equal to Occupied Heat.**
Cause: The error message is displayed for all Excel 10s and Q7300 devices if the UnOccupied Heat value that you have entered is greater than the Occupied Heat value.
Solution: Enter an UnOccupied Heat value that is less than or equal to the Occupied Heat value.
- 36. The Hour you have entered is invalid. Please enter value between (0-23).**
Cause: The error message is displayed for Q7300 and T7350 devices when the hour you have entered is beyond the specified range.
Solution: Enter any value that is within the specified hour range 0-23.
- 37. The Minute you have entered is invalid. Please enter value between (0-59).**
Cause: The error message is displayed for Q7300 and T7350 devices when the minutes you have entered is beyond the specified range.
Solution: Enter any value that is within the specified minutes range 0-59.
- 38. Occupied Cool should be greater than or equal to Occupied Heat+2.**
Cause: The error message is displayed for T7350 devices when the Occupied Cool value that you have entered is less than Occupied Heat +2 value.
Solution: Enter an Occupied Cool value that is greater than or equal to Occupied Heat+2 value.
- 39. Occupied Cool should be greater than or equal to Occupied Heat-16.62.**
Cause: The error message is displayed for T7350 devices when the Occupied Cool value that you have entered is less than Occupied Heat-16.62.
Solution: Enter an Occupied Cool value that is greater than or equal to Occupied Heat-16.62 value.

40. Occupied Cool should be less or equal to Occupied Heat+2.

Cause: The error message is displayed for T7350 devices when the Occupied Cool value that you have entered is greater than Occupied Heat+2.

Solution: Enter an Occupied Cool value that is less than or equal to Occupied Heat+2 value.

41. Occupied Cool should be less or equal to UnOccupied Cool.

Cause: The error message is displayed for T7350 devices when the Occupied Cool value that you have entered is greater than the UnOccupied cool value.

Solution: Enter an Occupied Cool value that is less than or equal to the UnOccupied Cool value.

42. Occupied Heat should be less or equal to Occupied Cool-2.

Cause: The error message is displayed for T7350 devices when the Occupied Heat value that you have entered is greater than Occupied Cool-2.

Solution: Enter an Occupied Heat value that is less than or equal to Occupied Cool-2 value.

43. Standby Cool should be greater than or equal to Standby Heat+2.

Cause: The error message is displayed for T7350 devices when the Standby Cool value that you have entered is less than the Standby Heat+2.

Solution: Enter a Standby Cool value that is greater than or equal to Standby Heat+2 value.

44. Standby Cool should be greater than or equal to Standby Heat-16.6.

Cause: The error message is displayed for T7350 devices when the Standby Cool value that you have entered is less than the Standby Heat-16.6.

Solution: Enter a Standby Cool value that is greater than or equal to Standby Heat-16.6 value.

45. Standby Cool should be less than or equal to Unocc Cool.

Cause: The error message is displayed for T7350 devices when the Standby Cool value that you have entered is greater than the UnOccupied Cool value.

Solution: Enter a Standby Cool value that is less than or equal to UnOccupied Cool value.

46. Standby Heat should be less or equal to Standby Cool-2.

Cause: The error message is displayed for T7350 devices when the Standby Heat value that you have entered is greater than Standby Cool-2.

Solution: Enter a Standby Cool value that is less than or equal to Standby Cool-2 value.

47. UnOccupied Heat should be less or equal to Occupied Heat.

Cause: The error message is displayed for T7350 devices when the UnOccupied Heat value that you have entered is greater than the Occupied Heat value.

Solution: Enter an UnOccupied Heat value that is less than or equal to the Occupied Heat value.

48. This device is not active now.

Cause: The error message is displayed if the device that you select from the discovered list of devices is not responding. It might be due to one of the following reasons:

- Fault in the device
- Device might be switched off
- Communication problem (the cable might be removed or torn).

Solution: Try to switch on the device again or recheck if the cable is connected properly. If the error persists, contact the Building Engineer for further support.

49. This device is not supported.

Cause: The error message is displayed only for non-supported devices that are there on the LON® network. Excel 15B recognizes such devices but does not communicate with them. You can view this message for XL 15A on the “System::View” page.

Solution: Contact the System Administrator for further support.

50. Reading XL15C device I/O... Please contact your system administrator, if this message continues to appear for a longer period.

Cause: The error message is displayed when you select Excel 15C device from the list displayed under the “Device List” icon and Excel 15B is still in the process of loading the XL 15C device I/O configuration.

Solution: Do one of the following:

- If the error message is displayed just a minute after Excel 15B is started, then wait for the configuration to be loaded.
- If the error message persists even after one minute, then click “Device Discovery” on the “System::View” page to discover the devices again and in particular for Excel 15B to reload the XL 15C device configuration.
- If the error message persists even after five minutes from the time Excel 15B started, then contact the respective Building Engineer who is responsible for commissioning the devices including XL 15C.

Managing Special Displays

Description

The following are the error messages that are displayed for tasks performed under the “Special” menu. Appropriate Cause and Solution are provided where required.

NOTE: Special Display and Special View mean the same and are used interchangeably.

51. Special View Name you have entered already exists. Please enter a unique name.

Cause: The error message is displayed if the Special View name that you enter already exists.

Solution: Enter a unique Special View name.

- 52. Databox Name cannot be empty. Please enter valid characters.**
Cause: The error message is displayed if you do not specify a name for the Databox.
Solution: Enter a unique databox name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 53. Databox Name you have entered is not valid. Please avoid entering control characters.**
Cause: The error message is displayed if you have not entered a valid databox name.
Solution: Enter a unique databox name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 54. Please select one Databox to delete.**
Cause: The error message is displayed if you click the "Delete Databox" option without selecting a databox to delete, on the "Special::Create New Special" page or the "Special::Configure" page.
Solution: Select at least one databox and then click the "Delete Databox" option.
- 55. Please select one device from object list.**
Cause: The error message is displayed if you do not select a device or object in the "Device/Object List" column on any of the point selection pop-up windows.
Solution: Select a device or object from the "Device/Object List" column, only then the corresponding NVs are displayed.
- 56. Please select one NV from NV list.**
Cause: The error message is displayed if you do not select a network variable (NV) in the "NV List" column on any of the point selection pop-up windows.
Solution: Select a NV from the "NV List" column, only then the corresponding points are displayed.
- 57. Please select one field from Field list.**
Cause: The error message is displayed if you do not select a point in the "Field List" column on any of the point selection pop-up windows.
Solution: Select a point from the "Field List" column. The corresponding engineering units are displayed. This completes the point configuration.
- 58. Special View Name cannot be empty. Please enter valid characters.**
Cause: The error message is displayed if you do not specify a name for the Special View.
Solution: Enter a unique Special View name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 59. Special View Name you have entered is not valid.**
Please avoid entering control characters.
Cause: The error message is displayed when you leave the "Special View Name" box empty or enter a Special Display name that includes control characters.
Solution: Enter a unique Special Display name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 60. There are already 20 Special Views configured and this is the maximum allowed.**
Cause: The error message is displayed if you try to configure the 21st Special Display, as the maximum that Excel 15B enables you to configure is 20.
Solution: You can do one of the following:
— Delete any of the Special Displays that you feel is not required and configure a new Special Display.
— Update an existing Special Display with the new configuration.
- 61. An error occurred while loading the View Special configuration. Please try again.**
Cause: The error message is displayed if the Special Display configuration that you are trying to view is corrupted. It might be due to the following reasons:
— Improper system shutdown or power failures resulting in corruption of file system.
— Version mismatch, where an older version tool commissions Excel 15B resulting in corruption of existing Excel 15B data.
Solution: Login using the Serial Console and run "Create Empty Configs" command.
The "Create Empty Configs" command erases all the current Excel 15B configurations. It is recommended that you take a backup of the existing configuration before executing this command.
- 62. The Special View you are trying to access is not available in system now. The configuration may be modified or deleted by another user.**
Cause: The error message is displayed if the Special Display configuration that you are trying to view is already updated or deleted by another user.
Solution: Click "Refresh Now" to refresh the "Special::View" page. The "Special View" list is updated with the latest Special Displays.
- 63. No Special Views configured in the system.**
Cause: The error message is displayed if there are no Special Views configured in Excel 15B.
Solution: If you have the appropriate access level, configure a Special View or contact the user whose access level enables the user to configure a Special View.

Managing Schedules

Description

The following are the error messages that are displayed for tasks performed under the "Schedules" menu. Appropriate Cause and Solution are provided where required.

GLOBAL SCHEDULES

Error Messages

64. Global Schedule Name you have entered already exists. Please enter a unique name.

Cause: The error message is displayed if the global schedule name that you have entered in the "Global Schedule" box already exists.

Solution: Enter a unique Global Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

65. The Weekly day month combination already exists.

Cause: The error message is displayed if you add a weekly day month combination that is already associated with the selected Master schedule.

Solution: Select a unique Weekly day month combination to be associated with the selected Master schedule. Refer to "Creating a Master Schedule" for more information.

66. Global Schedule Name cannot be empty. Please enter valid characters.

Cause: The error message is displayed if you do not enter a valid name in the "Global Schedule Name" box.

Solution: Enter a unique Global Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

67. Global Schedule Name you have entered is not valid. Please avoid entering control characters.

Cause: The error message is displayed if you leave the "Global Schedule" box empty or enter a schedule name that includes control characters.

Solution: Enter a unique Global Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

68. The Schedule Assignment that you are trying to delete is not available in system now. The configuration may be modified or deleted by another user.

Cause: The error message is displayed for one of the following reasons:

- If you are trying to remove a Global Schedule-Device association that has already been removed by another user
- If you are trying to assign the Global Schedule to a device that is already deleted from the "System Administration::Network Summary::Device List" page.

Solution: Click the "Schedule Assignment" tab again to view the updated list of devices in the "All Devices" list box. If the device for which you want to assign the Global Schedule is not available in the list, then click "Device Discovery" on the "System::View" page and then assign the Global Schedule to the re-discovered device.

69. There are already 20 Global Schedules configured and this is the maximum allowed.

Cause: The error message is displayed if you try to configure the 21st Global Schedule, as the maximum that Excel 15B enables you to configure is 20.

Solution: You can do one of the following:

- Delete any of the Global Schedules that you feel is not required and configure a new Global Schedule.
- Update an existing Global Schedule with the new configuration.

70. The Master to be followed for this Global Schedule is not selected.

Cause: The error message is displayed when you are configuring or updating a Shifted or Follower Schedule and you do not associate this schedule with a Master Schedule. The Shifted and Follower Schedules need to follow a Master Schedule; they are non-functional until and unless they are associated with a Master Schedule.

Solution: From the "Follow Schedule of" list, select the Master Schedule that the Shifted or the Follower Schedule must follow and then save the schedule configuration.

71. You cannot delete this Global Schedule now as this is being used by a device now.

Cause: The error message is displayed if you try to delete a Global Schedule (Master, Shifted, or Follower) that is currently assigned to a LON® device or object.

Solution: Before deleting a Global Schedule, ensure that all its schedule assignments are released and then delete it. It means that the Global Schedule that you want to delete must be independent and not assigned to any device as such.

72. You cannot delete this Global Schedule now as this is being used by a Follower Global Schedule now.

Cause: The error message is displayed if you try to delete a Master Schedule that is being followed by a Shifted or a Follower Schedule.

Solution: Before deleting a Master Schedule, ensure that the Shifted and the Follower Schedules that are associated with it are released and then delete it.

73. You cannot delete this Global Schedule now as this is being used by a Shifted Global Schedule now.

Cause: The error message is displayed if you try to delete a Master Schedule that is being followed by a Shifted or a Follower Schedule.

Solution: Before deleting a Master Schedule, ensure that the Shifted and the Follower Schedules that are associated with it are released and then delete it.

74. There are already 20 Weekly Schedules assigned to this Global Schedule and this is the maximum allowed limit.

Cause: The error message is displayed if you try to assign the 21st Weekly Schedule to the selected Master Schedule, as the maximum that Excel 15B enables you to assign is 20.

Solution: If you want to assign the current Weekly Schedule to the selected Master Schedule, do one of the following:

- Release any of the 20 Weekly Schedules' association with the Master Schedule.
- Update any of the existing Weekly Schedules with the new configuration without releasing its association with the Master Schedule.

- 75. The Device that you are trying to assign a schedule is not available in system now. The configuration may be modified or deleted by another user.**

Cause: The error message is displayed if the device might be deleted by another user on the "System Administration::Network Summary::Device List" page.

Solution: Click the "Schedule Assignment" tab again to view the updated list of devices in the "All Devices" list box. If the device for which you want to assign the Global Schedule is not available in the list, click "Device Discovery" on the "System::View" page and then assign the Global Schedule to the re-discovered device.

— If you are a System Administrator, you can also perform device discovery by clicking "Device Discovery" on the "System Administration::Network Summary::Device List" page.

- 76. The Global Schedule you are trying to access is not available in system now. The configuration may be modified or deleted by another user.**

Cause: The error message is displayed if the Global Schedule that you are trying to access is already updated or deleted by another user.

Solution: Click "Refresh Schedule Menu" icon to refresh the Schedules list. Then, select the schedule whose details you want to view.

- 77. No Global Schedules found in system.**

Cause: The error message is displayed when you try to view, update, or assign Global schedule to a device and there is none configured in Excel 15B.

Solution: If you have the appropriate access level, configure a Global Schedule or contact the user whose access level enables the user to configure a Global Schedule.

WEEKLY SCHEDULES

Error Messages

- 78. Weekly Schedule Name you have entered already exists. Please enter a unique name.**

Cause: The error message is displayed if you have entered a weekly schedule name that is already existing in the Weekly Schedules list.

Solution: Enter a unique Weekly Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 79. Weekly Schedule Name cannot be empty. Please enter valid characters.**

Cause: The error message is displayed if you leave the "Weekly Schedule" box empty or enter a Weekly Schedule name that includes control characters.

Solution: Enter a unique Weekly Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 80. Weekly Schedule Name you have entered is not valid. Please avoid entering control characters.**

Cause: The error message is displayed if you leave the "Weekly Schedule" box empty or enter a Weekly Schedule name that includes control characters.

Solution: Enter a unique Weekly Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 81. The weekly event start time already exists. Please enter a different start time.**

Cause: The error message is displayed if you try to configure two different events or the same event to occupy the same weekly event start time.

Solution: Configure the Weekly events to occupy different time slots so that there is no overlapping of events configured.

- 82. There are already 20 weekly configured and this is the maximum allowed.**

Cause: The error message is displayed if you try to configure the 21st Weekly Schedule, as the maximum that Excel 15B enables you to configure is 20.

Solution: You can do one of the following:

- Delete any of the Weekly Schedules that you feel is not required and configure a new Weekly Schedule.
- Update an existing Weekly Schedule with the new configuration.

- 83. You cannot delete this Weekly Schedule now as this is being used by a Global Schedule now.**

Cause: The error message is displayed if you try to delete a Weekly Schedule that is currently associated with a Master Schedule.

Solution: Before deleting a Weekly Schedule, ensure that its association with the Master schedule is released and then delete the schedule. It means that the Weekly Schedule that you want to delete must be independent and not associated with any Master Schedule as such.

- 84. The Weekly Schedule you are trying to access is not available in system now. The configuration may be modified or deleted by another user.**

Cause: The error message is displayed if the Weekly Schedule that you are trying to access is already updated or deleted by another user.

Solution: Click "Refresh Schedule Menu" icon to refresh the list under the "Weekly" icon in the left navigation pane.

- 85. No Weekly Schedules configured in the system.**

Cause: The error message is displayed when you try to view or update a Weekly Schedule and there is none configured in Excel 15B.

Solution: If you have the appropriate access level, configure a Weekly Schedule or contact the user whose access level enables the user to configure a Weekly Schedule.

HOLIDAY SCHEDULES

Error Messages

- 86. Holiday Schedule Name you have entered already exists. Please enter a unique name.**

Cause: The error message is displayed when you enter a holiday schedule name that is already existing in the list of holiday schedules.

Solution: Enter a unique Holiday Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 87. The Start Day and Month you have selected is not valid. Please select a valid Start Day and Month.**

Cause: The error message is displayed when you have not selected a valid start day and month.

Solution: Select a valid start day that is within the specified 0-31 range and a valid start month that is within the specified Jan-Dec range.

- 88. The End Day and Month you have selected is not valid. Please select a valid End Day and Month.**

Cause: The error message is displayed when you have not selected a valid end day and month.

Solution: Select a valid end day that is within the specified 0-31 range and a valid end month that is within the specified Jan-Dec range.

— An example where the preceding start day-month and end day-month error messages are displayed: When creating or updating a Holiday Schedule, you select the date (start date/end date) as '31st' and the month as 'February'.

- 89. Holiday Schedule Name cannot be empty. Please enter valid characters.**

Cause: The error message is displayed if you leave the "Holiday Schedule" box empty or enter a Holiday Schedule name that includes control characters.

Solution: Enter a unique Holiday Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 90. Holiday Schedule Name you have entered is not valid. Please avoid entering control characters.**

Cause: The error message is displayed if you leave the "Holiday Schedule" box empty or enter a Holiday Schedule name that includes control characters.

Solution: Enter a unique Holiday Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 91. There are already 50 holidays configured and this is the maximum allowed.**

Cause: The error message is displayed when you try to create the 51st Holiday Schedule, as the maximum that Excel 15B enables you to configure is 50.

Solution: You can do one of the following:

- Delete any of the Holiday Schedules that you feel is not required and configure a new Holiday Schedule.
- Update an existing Holiday Schedule with the new configuration.

- 92. You cannot delete this Holiday Schedule now as this is being used by a Global Schedule now.**

Cause: The error message is displayed if you try to delete a Holiday Schedule that is currently associated with a Master Schedule.

Solution: Before deleting a Holiday Schedule, ensure that its association with the Master Schedule is released and then delete the schedule. It means that the Holiday Schedule that you want to delete must be independent and not associated with any Master Schedule as such.

- 93. The Holiday Schedule you are trying to access is not available in system now. The configuration may be modified or deleted by another user.**

Cause: The error message is displayed if the Holiday Schedule that you are trying to access is already updated or deleted by another user.

Solution: Click "Refresh Schedule Menu" icon to refresh the list under the "Holiday" icon in the left navigation pane.

- 94. No Holiday Schedules configured in the system.**

Cause: The error message is displayed when want to view or update a Holiday Schedule and there are none configured in Excel 15B.

Solution: If you have the appropriate access level, configure a Holiday Schedule or contact the user whose access level enables the user to configure a Holiday Schedule.

TEMPORARY SCHEDULES

Error Messages

- 95. Temporary Schedule Name you have entered already exists. Please enter a unique name.**

Cause: The error message is displayed when the temporary schedule name that you have entered is already existing in the Temporary Schedules list.

Solution: Enter a unique Temporary Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

- 96. The Date you have entered in "To Date/Time" is less than or equal to "From Date/Time".**

Cause: The error message is displayed when the end date that you have entered is less than or equal to the start date.

Solution: Enter or select the end date that is greater than the start date.

- 97. Temporary Schedule Name cannot be empty. Please enter valid characters.**

Cause: The error message is displayed if you leave the "Temporary Schedule" box empty or enter a Temporary Schedule name that includes control characters.

Solution: Enter a unique Temporary Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

98. Temporary Schedule Name you have entered is not valid. Please avoid entering control characters.

Cause: The error message is displayed if you leave the "Temporary Schedule" box empty or enter a Temporary Schedule name that includes control characters.

Solution: Enter a unique Temporary Schedule name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

99. The temporary event start time already exists. Please enter a different start time.

Cause: The message is displayed if you try to configure two different events or the same event to occupy the same Temporary event start time.

Solution: Configure the Temporary events to occupy different time slots so that there is no overlapping of events configured.

100. There are already 50 temporary configured and this is the maximum allowed.

Cause: The error message is displayed when you try to configure the 51st Temporary Schedule, as the maximum that Excel 15B enables you to configure is 50.

Solution: You can do one of the following:

- Delete any of the Temporary Schedules that you feel is not required and configure a new Temporary Schedule.
- Update an existing Temporary Schedule with the new configuration.

101. You cannot delete this Temporary Schedule now as this is being used by a Global Schedule now.

Cause: The error message is displayed if you try to delete a Temporary Schedule that is currently associated with a Global Schedule (Master, Shifted, or a Follower).

Solution: Before deleting a Temporary Schedule, ensure that its association with the respective Global Schedule is released and then delete the schedule. It means that the Temporary Schedule that you want to delete must be independent and not associated with any Global Schedule as such.

102. The Temporary Schedule you are trying to access is not available in system now. The configuration may be modified or deleted by another user.

Cause: The error message is displayed if the Temporary Schedule that you are trying to access is already updated or deleted by another user.

Solution: Click "Refresh Schedule Menu" icon to refresh the list under the "Temporary" icon in the left navigation pane.

103. No Temporary Schedules configured in the system.

Cause: The error message is displayed when want to view or update a Temporary Schedule and there are none configured in Excel 15B.

Solution: If you have the appropriate access level, configure a Temporary Schedule or contact the user whose access level enables the user to configure a Temporary Schedule.

Managing Trends

Description

The following are the error messages that are displayed for tasks performed under the "Trends" menu. Appropriate Cause and Solution are provided where required.

Error Messages

104. The number of samples of a trend cannot be blank. Please enter an integer number between 100 and 10000.

Cause: The error message is displayed when you leave the "Samples" box blank when creating or modifying a user defined trend.

Solution: Enter a valid sample number that is within the specified 100-10000 range.

105. The number of samples you have entered is not valid. Please enter an integer number between 100 and 10000.

Cause: The error message is displayed when you leave the "Samples" box blank when creating or modifying a user defined trend.

Solution: Enter a valid sample number that is within the specified 100-10000 range.

106. The Date you have entered in "To Date/Time" is less than or equal to "From Date/Time".

Cause: The error message is displayed when the end date that you have entered is less than or equal to the start date.

Solution: Enter or select the end date that is greater than the start date.

107. Trend name you have entered already exists. Please try with a different name.

Cause: The error message is displayed when the trend name you have entered already exists in the "User Defined Trends" list.

Solution: Enter a unique trend name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

108. No points configured for this trend.

Cause: The error message is displayed if you do not configure any trend points for trending.

Solution: Configure trend points on the "User Defined Trends::Create New User Defined Trend" page or the "User Defined Trends::Configure" page. Refer to the topic "Creating a User Defined Trend" for more information.

109. There are no trend samples available for selected date range.

Cause: The error message is displayed if the trend start date that you select is less than the current system date.

Solution: Select the trend start date to be greater than the system date, from the "Trend Start Date" box. Refer to the topic "Creating a User Defined Trend" for more information.

110. Trend name cannot be empty. Please enter valid characters.

Cause: The error message is displayed if you leave the "Trend" box empty or enter a trend name that includes control characters.

Solution: Enter a unique trend name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

111. Trend name you have entered is not valid. Please avoid entering control characters.

Cause: The error message is displayed if you leave the "Trend" box empty or enter a trend name that includes control characters.

Solution: Enter a unique trend name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

112. There are no trend samples available for this trend.

Cause: The error message is displayed in the following scenarios:

- If you try to view the graph or data view of the user-defined trend
- If you try to download the trend log soon after configuring a user-defined trend.

Solution: Wait for the configured "Sampling Interval" for Excel 15B to log the trend samples before viewing the trend or downloading the log.

113. No User Trends configured in the system.

Cause: The error message is displayed when want to view or update a user-defined trend and there are none configured in Excel 15B.

Solution: If you have the appropriate access level, configure a user-defined trend or contact the user whose access level enables the user to configure a user-defined trend.

114. No Default Trends configured in the system.

Cause: The error message is displayed when want to view a default trend and there are none loaded yet.

Solution: After startup, Excel 15B takes minimum one hour to load all the default trends configurations, till then you will be displayed the preceding message. You can view a particular default trend details after the specified period.

Managing Alarms

Description

The following are the error messages that are displayed for tasks performed under the "Alarms" menu. Appropriate Cause and Solution are provided where required.

Error Messages

115. Alarm name you have entered already exists. Please enter a unique name.

Cause: The error message is displayed if the alarm name that you have entered already exists in "User Alarms" list.

Solution: Enter a unique alarm name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

116. The From Date you have entered is not valid. Please enter a valid date in MM/DD/YYYY format.

Cause: The error message is displayed when the start date that you have entered is not in the format specified.

Solution: Enter the start date that is in the MM/DD/YYYY format. Example: 12/18/1974.

117. The To Date you have entered is not valid. Please enter a valid date in MM/DD/YYYY format.

Cause: The error message is displayed when the end date that you have entered is not in the format specified.

Solution: Enter the end date that is in the MM/DD/YYYY format. Example: 12/18/1974.

118. The value you have entered in "Maximum Alarm Limit" is less than "Minimum Alarm Limit".

Cause: The error message is displayed when the value entered in the "Maximum Alarm Limit" box is less than the value entered in the "Minimum Alarm Limit" box.

Solution: Enter a value in the "Maximum Alarm Limit" box that is greater than the value entered in the "Minimum Alarm Limit" box.

119. E-mail ID you have entered is not valid. Please enter valid E-mail ID such as name@company.com.

Cause: The error message is displayed when the e-mail ID that you have entered is not in the specified format.

Solution: Enter a valid e-mail ID that adheres to the specified format. Example: name@company.com.

120. E-mail ID cannot be empty. Please enter valid E-mail Id such as name@company.com.

Cause: The error message is displayed when you have left the "Send E-mail To" box blank.

Solution: Enter a valid e-mail ID that adheres to the specified format. Example: name@company.com.

Invalid Alarm Range

121. Maximum Alarm Limit cannot be empty. Please enter a valid decimal number between (-1000000 to 1000000).

Cause: The error message is displayed when you leave the "Maximum Alarm Limit" box blank.

Solution: Enter a value in the "Maximum Alarm Limit" box that is within the specified "-1000000 to 1000000" range.

122. Maximum Alarm Limit you have entered is not valid. Please enter a valid decimal number between (-1000000 to 1000000).

Cause: The error message is displayed when the maximum alarm limit entered is beyond the specified range.

Solution: Enter a value in the "Maximum Alarm Limit" box that is within the specified "-1000000 to 1000000" range.

123. Minimum Alarm Limit cannot be empty. Please enter a valid decimal number between (-1000000 to 1000000).

Cause: The error message is displayed when you leave the "Minimum Alarm Limit" box blank.

Solution: Enter a value in the "Minimum Alarm Limit" box that is within the specified "-1000000 to 1000000" range.

- 124. Minimum Alarm Limit you have entered is not valid. Please enter a valid decimal number between (-1000000 to 1000000).**
Cause: The error message is displayed when the minimum alarm limit entered is beyond the specified range.
Solution: Enter a value in the "Minimum Alarm Limit" box that is within the specified "-1000000 to 1000000" range.
- 125. Post-Delay Time cannot be empty. Please enter a valid integer number between (0-500).**
Cause: The error message is displayed when you leave the "Post-Delay Time" box blank.
Solution: Enter a value in the "Post-Delay Time" box that is within the specified "0 to 500" range.
- 126. Post-Delay Time you have entered is not valid. Please enter a valid integer number between (0-500).**
Cause: The error message is displayed when the post-delay time entered is beyond the specified limits.
Solution: Enter a value in the "Post-Delay Time" box that is within the specified "0 to 500" range.
- 127. Pre-Delay Time cannot be empty. Please enter a valid integer number between (0-500).**
Cause: The error message is displayed when you leave the "Pre-Delay Time" box blank.
Solution: Enter a value in the "Pre-Delay Time" box that is within the specified "0 to 500" range.
- 128. Pre-Delay Time you have entered is not valid. Please enter a valid integer number between (0-500).**
Cause: The error message is displayed when you leave the "Pre-Delay Time" box blank.
Solution: Enter a value in the "Pre-Delay Time" box that is within the specified "0 to 500" range.
- 129. Alarm name cannot be empty. Please enter valid characters.**
Cause: The error message is displayed if you leave the "Alarm Name" box empty.
Solution: Enter a unique alarm name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 130. Alarm Name you have entered is not valid. Please avoid entering control characters.**
Cause: The error message is displayed if you leave the "Alarm Name" box empty or enter an alarm name that includes control characters.
Solution: Enter a unique alarm name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 131. Currently you do not have permission to acknowledge or delete alarms. Please consult your system administrator.**
Cause: The error message is displayed if your System Administrator has not given your profile, access permissions to acknowledge or delete alarms on the "Alarms" page.
Solution: Contact your System Administrator for further support.
- 132. There are already 500 alarms configured and this is the maximum allowed.**
Cause: The message is displayed when you try to configure the 501st alarm, as the maximum that Excel 15B enables you to configure is 500.
Solution: You can do one of the following:
 — Delete any of the configured alarm conditions that you feel is not required and configure a new alarm condition.
 — Update an existing alarm condition with the new configuration.
- 133. Invalid comment.**
Cause: The error message is displayed if you enter comment that includes control characters.
Solution: Enter comment that is an alphanumeric combination of maximum 100 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.
- 134. Please select a device point for alarm.**
Cause: The error message is displayed if you try to configure an alarm condition (analog, digital, or SNVT) without selecting a device point on which the alarm has to be generated.
Solution: When configuring an alarm condition, select the appropriate device point from the "Select Alarm Point" window and select the other settings for the selected device point.
- 135. The Alarm you are trying to access is not available in system now. The configuration may be modified or deleted by another user.**
Cause: The error message is displayed if the alarm condition that you are trying to access is already updated or deleted by another user.
Solution: The updated alarms list is displayed when the "Alarms" page is automatically refreshed every 15 seconds.
- 136. No alarms configured in the system.**
Cause: The error message is displayed when want to view or update an alarm condition and there are none configured in Excel 15B.
Solution: If you have the appropriate access level, configure an alarm condition or contact the user whose access level enables the user to configure an alarm condition.

Managing DLC Configuration

Description

The following are the error messages that are displayed for tasks performed under the "DLC" menu. Appropriate Cause and Solution are provided where required.

Error Messages**137. Duplicate load name. A load with this name already exists.**

Cause: The error message is displayed if you have entered a load name that is already existing in the configured loads list.

Solution: Enter a unique load name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

138. The Date you have entered in "To Date/Time" is less than or equal to "From Date/Time".

Cause: The error message is displayed when the end date that you have entered is less than or equal to the start date.

Solution: Enter or select the end date that is greater than the start date.

139. The load object assignments exceeds the allowed size of 120. Please remove objects from other loads or assign less no of objects to the present load.

Cause: The error message is displayed when you configure the 121st load object assignment.

Solution: Ensure that the load object assignments is always within the allowable size of 120. You can do one of the following:

- Remove objects from other loads
- Assign less number of objects to the present load.

140. Please select override point or disable the override condition before saving.

Cause: The error message is displayed when you enable the override feature but do not select any override condition (during load configuration).

Solution: Complete the following tasks:

- Select the override point. Refer to the topic "Enabling Override Condition" for more information.
- Disable the override condition and save the load configuration.

141. Please select a Global Schedule.

Cause: The error message is displayed when you try to specify the setpoints and deadband without selecting a global schedule. The load needs to follow the schedule of the selected global schedule.

Solution: Select one of the global schedules from the "Global Schedule" list and then proceed to specify other load parameters.

142. The upper limit to override is less than the lower limit.

Cause: The error message is displayed when the end date that you have entered is less than or equal to the start date.

Solution: Enter or select the end date that is greater than the start date.

143. Please enter the load name.

Cause: The error message is displayed if you leave the "Load Assignment Name" box empty or enter a load name that includes control characters.

Solution: Enter a unique load name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

144. Load name you have entered is invalid. Please avoid control characters.

Cause: The error message is displayed if you leave the "Load Assignment Name" box empty or enter a load name that includes control characters.

Solution: Enter a unique load name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

145. No Global schedule exists in the system. Please configure a Global schedule.

Cause: The error message is displayed if there are no Global Schedules configured in Excel 15B.

Solution: The DLC load must follow a Global Schedule. Hence, first create a Global Schedule, then configure a DLC load and assign it to that particular Global Schedule.

146. No DLC Samples to download.

Cause: The error message is displayed if you try to view the DLC samples or download the log immediately after configuring the DLC load.

Solution: Excel 15B will log the samples at an interval equal to the staging interval that has been configured for the DLC load. Wait for a couple of staging intervals and then view the DLC load or download the samples accordingly.

147. There are no DLC Samples available in the system.

Cause: The error message is displayed if you try to view the DLC samples or download the log immediately after configuring the DLC load.

Solution: Excel 15B will log the samples at an interval equal to the staging interval that has been configured for the DLC load. Wait for a couple of staging intervals and then view the DLC load or download the samples accordingly.

148. No Pulse meter exists in the system.

Cause: The error message is displayed if you try to save the DLC configuration when there are no Excel 15Cs in the list of devices discovered by Excel 15B.

Solution: Click "Device Discovery" on the "System::View" page to re-discover the missing Excel 15C device. The re-discovered Excel 15C device is automatically displayed in the "Select Pulse Meter" list on the "DLC::Configure" page.

149. Please select a Pulse Meter.

Cause: The error message is displayed if you try to save the DLC load configuration without selecting a XL 15C device, with an attached pulse meter.

Solution: Pulse Meters are required to give periodic update of power consumptions in the building. You can:

- Select a XL 15C object to act as a Power Master, which in turn gets the periodic update of power consumption from other Pulse Meters connected to different XL15Cs (slaves) in the building.
- Select an individual XL 15C object with a Pulse Meter attached to it.

150. Shed method for one of the loads is of unknown type.

Cause: The error message is displayed if there is an error in configuring the DLC load.

Solution: Try deleting the DLC load and re-configuring a new load. If the error persists, then login using the Serial Console and run "Create Empty Configs" command.

- The "Create Empty Configs" command erases all the current Excel 15B configurations. It is recommended that you take a backup of the existing configuration before executing this command.

Invalid Setpoint Validations**151. Occupied Peak Setpoint cannot be empty. Please enter a valid integer between (0-6000).**

Cause: The error message is displayed if the "Occupied Peak Setpoint" box is blank.

Solution: Enter a valid value within the "0-6000" range in the "Occupied Peak Setpoint" box.

152. Occupied Peak Setpoint you have entered is invalid. Please enter a valid integer between (0-6000).

Cause: The error message is displayed if you have entered a value that is beyond the specified range in the "Occupied Peak Setpoint" box.

Solution: Enter a valid value within the "0-6000" range in the "Occupied Peak Setpoint" box.

153. UnOccupied Peak Setpoint cannot be empty. Please enter a valid integer between (0-6000).

Cause: The error message is displayed if the "UnOccupied Peak Setpoint" box is blank.

Solution: Enter a valid value within the "0-6000" range in the "UnOccupied Peak Setpoint" box.

154. UnOccupied Peak Setpoint you have entered is invalid. Please enter a valid integer between (0-6000).

Cause: The error message is displayed if you have entered a value that is beyond the specified range in the "UnOccupied Peak Setpoint" box.

Solution: Enter a valid value within the "0-6000" range in the "UnOccupied Peak Setpoint" box.

155. Standby Peak Setpoint cannot be empty. Please enter a valid integer between (0-6000).

Cause: The error message is displayed if the "Standby Peak Setpoint" box is blank.

Solution: Enter a valid value within the "0-6000" range in the "Standby Peak Setpoint" box.

156. Standby Peak Setpoint you have entered is invalid. Please enter a valid integer between (0-6000).

Cause: The error message is displayed if you have entered a value that is beyond the specified range in the "Standby Peak Setpoint" box.

Solution: Enter a valid value within the "0-6000" range in the "Standby Peak Setpoint" box.

157. Occupied Deadband cannot be empty. Please enter a valid integer between(1-1000).

Cause: The error message is displayed if the "Occupied Deadband" box is empty.

Solution: Enter a valid value within the "1-1000" range in the "Occupied Deadband" box.

158. Occupied Deadband you have entered is invalid. Please enter a valid integer between (1-1000).

Cause: The error message is displayed if you have entered a value that is beyond the specified range in the "Occupied Deadband" box.

Solution: Enter a valid value within the "1-1000" range in the "Occupied Deadband" box.

159. UnOccupied Deadband cannot be empty. Please enter a valid integer between(1-1000).

Cause: The error message is displayed if the "UnOccupied Deadband" box is blank.

Solution: Enter a valid value within the "1-1000" range in the "UnOccupied Deadband" box.

160. UnOccupied Deadband you have entered is invalid. Please enter a valid integer between (1-1000).

Cause: The error message is displayed if you have entered a value that is beyond the specified range in the "UnOccupied Deadband" box.

Solution: Enter a valid value within the "1-1000" range in the "UnOccupied Deadband" box.

161. Standby Deadband cannot be empty. Please enter a valid integer between(1-1000).

Cause: The error message is displayed if the "standby Deadband" box is empty.

Solution: Enter a valid value within the "1-1000" range in the "Standby Deadband" box.

162. Standby Deadband you have entered is invalid. Please enter a valid integer between (1-1000).

Cause: The error message is displayed if you have entered a value that is beyond the specified range in the "Standby Deadband" box.

Solution: Enter a valid value within the "1-1000" range in the "Standby Deadband" box.

163. The value you have entered in "UnOccupied Peak Setpoint" is less than in "UnOccupied DeadBand".

Cause: The error message is displayed if you have entered a UnOccupied Peak Setpoint value that is less than the UnOccupied Deadband value.

Solution: Enter a valid value in the "UnOccupied Peak Setpoint" box that is greater than the value entered in the "UnOccupied Deadband" box.

164. The value you have entered in "Occupied Peak Setpoint" is less than in "UnOccupied Setpoint".

Cause: The error message is displayed if you have entered an Occupied Peak Setpoint value that is less than the UnOccupied Setpoint value.

Solution: Enter a valid value in the "Occupied Peak Setpoint" box that is greater than the value entered in the "UnOccupied Setpoint" box.

165. The value you have entered in "Standby Peak Setpoint" is less than in "Standby Deadband".

Cause: The error message is displayed if you have entered a Standby Peak Setpoint value that is less than the Standby Deadband value.

Solution: Enter a valid value in the "Standby Peak Setpoint" box that is greater than the value entered in the "Standby Deadband" box.

166. The value you have entered in "Maximum Shed Time" is less than or equal to "Minimum Shed Time".

Cause: The error message is displayed if you have entered a Maximum Shed Time value that is less than the Minimum Shed Time value.

Solution: Enter a valid value in the "Maximum Shed Time" box that is greater than the value entered in the "Minimum Shed Time" box.

167. The value you have entered in "Occupied Peak Setpoint" is less than in "Occupied Dead Band".

Cause: The error message is displayed if you have entered a Occupied Peak Setpoint value that is less than the Occupied Deadband value.

Solution: Enter a valid value in the "Occupied Peak Setpoint" box that is greater than the value entered in the "Occupied Deadband" box.

168. Minimum On Time cannot be empty. Please enter a valid integer between (0-99).

Cause: The error message is displayed if you the "Minimum On Time" box is left blank.

Solution: Enter a valid value in the "Minimum On Time" box that is within the specified "0-99" range.

169. Minimum On Time you have entered is invalid. Please enter a valid integer between (0-99).

Cause: The error message is displayed if the value entered in the "Minimum On Time" box is beyond the specified range.

Solution: Enter a valid value in the "Minimum On Time" box that is within the specified "0-99" range.

170. Minimum Shed Time cannot be empty. Please enter a valid integer between (0-99).

Cause: The error message is displayed if the "Minimum Shed Time" box is blank.

Solution: Enter a valid value in the "Minimum Shed Time" box that is within the specified "0-99" range.

171. Minimum Shed Time you have entered is invalid. Please enter a valid integer between (0-99).

Cause: The error message is displayed if the value entered in the "Minimum Shed Time" box is beyond the specified range.

Solution: Enter a valid value in the "Minimum Shed Time" box that is within the specified "0-99" range.

172. Maximum Shed Time cannot be empty. Please enter a valid integer between (0-99).

Cause: The error message is displayed if the "Maximum Shed Time" box is blank.

Solution: Enter a valid value in the "Maximum Shed Time" box that is within the specified "0-99" range.

173. Maximum Shed Time you have entered is invalid. Please enter a valid integer between (0-99).

Cause: The error message is displayed if the value entered in the "Maximum Shed Time" box is beyond the specified range.

Solution: Enter a Maximum Shed Time value that is within the "0-99" range.

174. The upper limit for Override cannot be empty.

Cause: The error message is displayed if there is no upper limit specified for the override condition. This error message is displayed when you select an analog point for the override condition.

Solution: Enter a valid value in the "If Above" box.

175. The lower limit for Override cannot be empty.

Cause: The error message is displayed if there is no lower limit specified for the override condition. This error message is displayed when you select an analog point for the override condition.

Solution: Enter a valid value in the "If Below" box.

Managing User Profiles

Description

The following are the error messages that are displayed for tasks performed under the "User Admin" menu. Appropriate Cause and Solution are provided where required.

Error Messages

176. User ID you have entered already exists. Please enter a unique User ID.

Cause: The error message is displayed when you enter a user ID that is already existing in the list of users accessing Excel 15B.

Solution: Enter a unique user ID that is an alphanumeric combination of maximum 30 characters including '_' and '-'. Other special and all control characters are not supported.

177. You need to enter a Full Name, which is 5 to 30 characters long.

Cause: The error message is displayed when you enter a full name that is less than five or more than 30 characters in length.

Solution: Enter a full name that is more than five but less than 30 characters in length. It can include '_' and '-'. Other special and all control characters are not supported.

178. Either Password or Confirm Password is not entered.

Cause: The error message is displayed when either the "Password" box or the "Confirm Password" box is blank.

Solution: Enter a unique password that is an alphanumeric combination of minimum 5 characters and maximum 30 characters. It can include '-' (hyphen) and '_' (underscore). Other special characters and all control characters are not supported.

- 179. Password and Confirm Password.**
Cause: The error message is displayed when the text entered in the "Password" box does not match the text entered in the "Confirm Password" box.
Solution: Enter a password in the "Password" box. It must be an alphanumeric combination of minimum 5 characters and maximum 30 characters. It can include '-' (hyphen) and '_' (underscore). Other special characters and all control characters are not supported. Re-enter the same password in the "Confirm Password" box.
 - 180. User ID does not exist.**
Cause: The error message is displayed if the user's profile that you are trying to view or update has already been deleted by another user.
Solution: Click "Refresh User Admin Menu" to refresh the respective User Admin page. The updated list of users is displayed under the "Users" icon.
 - 181. User ID you have entered is not valid. Please enter alphanumeric, '-' and '_' characters only.**
Cause: The error message is displayed if the user ID that you have entered has control characters.
Solution: Enter a unique user ID that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special and all control characters are not supported.
 - 182. Full Name cannot be empty. Please enter valid characters.**
Cause: The error message is displayed if the "Full Name" box is left blank.
Solution: Enter a name in the "Full Name" box that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special and all control characters are not supported.
 - 183. Full Name you have entered is not valid. Please avoid entering control characters.**
Cause: The error message is displayed if the full name that you have entered contains control characters.
Solution: Enter a name in the "Full Name" box that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special and all control characters are not supported.
 - 184. The Notes you have entered is not valid. Please avoid entering control characters.**
Cause: The error message is displayed if the notes that you have entered contains control characters.
Solution: Enter text in the "Notes" box that is an alphanumeric combination of maximum 100 characters that includes the following special characters: '~','!','@','#','\$','%','&','(',')','*','+','-','=', '_ '. They can include '_' and '-'. Other special and all control characters are not supported.
 - 185. The Title you have entered is not valid. Please avoid entering control characters.**
 - 186. Could not update user information. Action Failed. Please retry.**
Cause: The error message is displayed if the user profile that you are trying to update is already deleted by another System Administrator.
Solution: Click "Refresh User Admin Menu" icon to refresh the list under the "Users" icon and also the respective "User Administration::View Users" page.
 - 187. Could not delete user configuration. Action Failed. Please retry.**
Cause: The error message is displayed if the user profile that you are trying to delete is already deleted by another System Administrator.
Solution: Click "Refresh User Admin Menu" icon to refresh the list under the "Users" icon and also the respective "User Administration::View Users" page.
 - 188. The cell number you have entered is not valid. Please enter digits only.**
Cause: The error message is displayed if the cell number that you have entered is an alphanumeric and also includes control characters.
Solution: Enter only digits; the maximum is 15 digits.
 - 189. The phone number you have entered is not valid. Please enter digits only.**
Cause: The error message is displayed if the phone number that you have entered is an alphanumeric and also includes control characters.
Solution: Enter only digits; the maximum is 15 digits.
 - 190. Extn you have entered is not valid. Please enter digits only.**
Cause: The error message is displayed if the extension number that you have entered is an alphanumeric and also includes control characters.
Solution: Enter only digits; the maximum is 4 digits.
 - 191. The pager number you have entered is not valid. Please enter digits only.**
Cause: The error message is displayed if the pager number that you have entered is an alphanumeric and also includes control characters.
Solution: Enter only digits; the maximum length is 15 digits.
 - 192. Password and Confirm Password you have entered is not valid. Please avoid entering control characters.**
Cause: The error message is displayed if the password that you have entered in the Password box or the "Confirm Password" box includes control characters.
Solution: Enter a unique password that is an alphanumeric combination of minimum 5 characters and maximum 30 characters. It can include '-' (hyphen) and '_' (underscore). Other special characters and all control characters are not supported.

193. There are already 100 users configured and this is the maximum allowed.

Cause: The error message is displayed when you try to create the 101st user profile, as the maximum that Excel 15B enables you to configure is 100.

Solution: You can do one of the following:

- Delete any of the existing user profiles that you feel is not required and create a new user profile.
- Update an existing user profile with the new user details.

Managing Excel 15B Settings

Description

Appropriate error messages are displayed, where required, for tasks that are performed under the “System Admin” menu.

Error Messages

194. Hour cannot be empty. Please enter a number between 0 and 23.

Cause: The error message is displayed if the “Hour” box is left blank.

Solution: Enter a number that is within the specified range “0-23” in the “Hours” box.

195. Hour you have entered is not valid. Please enter a number between 0 and 23.

Cause: The error message is displayed if the hour that you have entered is not within the specified range.

Solution: Enter a number that is within the specified range “0-23” in the “Hours” box.

196. Minute cannot be empty. Please enter a number between 0 and 59.

Cause: The error message is displayed if the “Minutes” box is left blank.

Solution: Enter a number that is within the specified range “0-59” in the “Minutes” box.

197. Minute you have entered is not valid. Please enter a number between 0 and 59.

Cause: The error message is displayed if the minute that you have entered is not within the specified range.

Solution: Enter a number that is within the specified range “0-23” in the “Minutes” box.

198. The format of Time Source IP Address is not valid. Please enter a valid IP address such as 111.111.11.1.

Cause: The error message is displayed if the IP address entered in the “Source IP Address” box is not of the specified format.

Solution: Enter a valid IP address. Example: 111.111.11.1. Refer to “Synchronizing with Internet Time Source” for more information.

**199. The format of SMTP E-mail Server name is invalid. Please enter valid e-mail server such as smtps-
server.domainname.com.**

Cause: The error message is displayed if the SMTP e-mail server name that you have entered is not valid.

Solution: Enter a valid SMTP e-mail server name in the “SMTP E-Mail Server Name” box.

200. You have chosen an invalid or an unsupported image format. Please select the image in JPEG or GIF format only.

Cause: The error message is displayed if the image that you have chose to upload into Excel 15B is not of the valid JPEG or GIF formats.

Solution: Upload only those images that are of the JPEG or GIF formats.

201. The package you are about to install is not a valid package or it does not contain a Honeywell digital signature.

Cause: The error message is displayed if the service pack that you have selected for installation is not a valid RPM file.

Solution: Select only an RPM file for installation. Refer to the topic “Installing a New Package” for more information.

202. Please select a file to Import.

Cause: The error message is displayed if you click the “Import File” option on the “System Administration::Install Package” page without selecting the RPM file.

Solution: Browse for the RPM package, select the file and then click “Import File”. Excel15B uploads the file.

203. Please select an image to upload.

Cause: The error message is displayed if you click the “Import Graphic” option without selecting the image.

Solution: Browse for the image of JPEG or GIF format and then click “Import Graphic” option to import the image.

204. Please select an image to Import.

Cause: The error message is displayed if you click the “Import Graphic” option without selecting the image.

Solution: Browse for the image of JPEG or GIF format and then click “Import Graphic” option to import the image.

205. Select an Image from the list to Delete.

Cause: The error message is displayed if you click the “Delete Graphic” option on the “System Administration::Graphics Setup” page without selecting the image to be deleted.

Solution: Browse for the image in the “Delete Graphics” list, select the graphic and click “Delete Graphic”.

206. Please select a package for upload.

Cause: The error message is displayed if you click the “Import File” option on the “System Administration::Install Package” page without selecting the file to be uploaded.

Solution: Browse for the RPM file, select the file and click “Import File”.

207. Please select a RPM package. The package in other formats is not allowed for install.

Cause: The error message is displayed if you select a file other than the RPM package and click the “Import File” option on the “System Administration::Install Package” page.

Solution: Browse for the RPM file, select the file and click “Import File”.

208. Company Name cannot be empty. Please enter valid characters.

Cause: The error message is displayed if you leave the "Company Name" box empty.

Solution: Enter a unique Company name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

209. Company Name you have entered is not valid. Please avoid entering control characters.

Cause: The error message is displayed if the company name you have entered contains control characters.

Solution: Enter a unique Company name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

210. Site Name cannot be empty. Please enter valid characters.

Cause: The error message is displayed if you leave the "Site Name" box empty.

Solution: Enter a unique Site name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

211. Site Name you have entered is not valid. Please avoid entering control characters.

Cause: The error message is displayed if you have entered a Site name that includes control characters.

Solution: Enter a unique Site name that is an alphanumeric combination of maximum 30 characters. It can include '_' and '-'. Other special characters and all control characters are not supported.

212. Please enter the SMTP user name.

Cause: The error message is displayed if you enter an invalid user name or enter the password and leave the SMTP User Name box empty.

Solution: For authentication of the SMTP e-mail address, you need to enter a valid SMTP user name and password. The SMTP user name can be an alphanumeric combination of maximum 30 characters that includes '-' (hyphen) and '_' (underscore). Other special characters and all control characters are not supported.

213. SMTP User Name you have entered is not valid. Please avoid using control characters.

Cause: The error message is displayed if you enter an invalid user name or enter the password and leave the "SMTP User Name" box empty.

Solution: For authentication of the SMTP e-mail address, you need to enter a valid SMTP user name and password. The SMTP user name can be an alphanumeric combination of maximum 30 characters that includes '-' (hyphen) and '_' (underscore). Other special characters and all control characters are not supported.

214. You have chosen wrong project backup file for restore operation. The format of this file is not known.

Cause: The error message is displayed if you have chosen a backup file format that is not supported by Excel 15B.

Solution: When taking a backup, Excel 15B provides a default name for the backup file. Choose the file that has the default "tar.gz.gpg" extension and then continue with the backup process.

215. Could not download log files. Download Logs Failed.

Cause: The error message is displayed if there is an internal error in Excel 15B.

Solution: It is recommended that you contact Honeywell Technical Support team for further assistance.

216. Could not Import File. Action Failed. Please try again.

Cause: The error message is displayed if Excel 15B is not able to retrieve the file from the source during the upload process.

Solution: Check for the following:

- If the communication settings between Excel 15B and the client is proper
- If the IE browser settings are correct. Even after verifying the above points, if the error persists, it is recommended that you contact Honeywell Technical Support team for further assistance.

217. Could not import image. Action failed. Please try again.

Cause: The error message is displayed if Excel 15B is not able to retrieve the file from the source during the upload process.

Solution: Check for the following:

- If the communication settings between Excel 15B and the client is proper
- If the IE browser settings are correct. Even after verifying the above points, if the error persists, it is recommended that you contact Honeywell Technical Support team for further assistance.

218. Could not delete image. Action Failed. Please retry.

Cause: The error message is displayed if you try to delete an image that is already deleted by another System Administrator.

Solution: Refresh the "System Administration::Graphics Setup" page to view the updated list of images.

219. Import Image Failed as there is no space available for storing this image.

Cause: The error message is displayed if the image storage space on Excel 15B exceeds the allocated 25MB space.

Solution: Delete one or more images that you feel are not required and then restart the image upload process.

220. An error occurred while trying to get network information. Check log for details.

Cause: The error message is displayed if Excel 15B is unable to read the network configuration from the operating system.

Solution: It is recommended that you contact Honeywell Technical Support team for further assistance.

221. An error occurred while trying to restore the system configuration. Restore DB Failed. Check log for details.

Cause: The message is displayed for the following reasons:

- If the backup file (with tar.gz.gpg extension) that you want to restore is tampered or corrupted
- If there is a version mismatch; in the sense that if the backup file from a later version is being restored to the current version of Excel 15B.

Solution: Complete the following tasks:

- Check for the backup file extension that is being restored. It must be tar.gz.gpg. Only then the file is valid and can be restored.
- Check if there has been a version mismatch. In the sense, if later version of the backup file is being restored, then it might get corrupted. If the error persists, it is recommended that you contact Honeywell Technical Support team for further assistance.

222. An error occurred while trying to update system configuration. Save Failed. Check log for details.

Cause: The error message is displayed if there is an internal error in Excel 15B.

Solution: Try rebooting Excel 15B. If the error persists, it is recommended that you contact Honeywell Technical Support team for further assistance.

223. Could not initiate backup operation. A backup/restore operation is already in progress.

Cause: The error message is displayed if there is already a backup or restore process in progress.

Solution: You need to wait for the process to be completed before initiating another backup or restore process.

224. Install package failed. Check log for details.

Cause: The error message is displayed if there is a problem with the RPM package (a service pack or an upgrade package) being uploaded or if the RPM package was not uploaded properly.

Solution: Check the Excel 15B log file for details and try to initiate the install package process again. If the same error persists, it is recommended that you contact Honeywell Technical Support team for further assistance.

225. An error occurred while trying to read package information. Install Package Failed. Check log for details.

Cause: The error message is displayed if there is a problem with the RPM package (a service pack or an upgrade package) being uploaded or if the RPM package was not uploaded properly.

Solution: Check the Excel 15B log file for details and try to initiate the install package process again. If the same error persists, it is recommended that you contact Honeywell Technical Support team for further assistance.

226. An error occurred while validating the package integrity. Install Package Failed. Check log for details.

Cause: The error message is displayed if the package that you are trying to install is corrupted or modified by another user.

Solution: Try to download it from the respective Honeywell site or inform the Honeywell Technical Support team to resend the package.

Unknown Error Message

Error Message

227. Unknown Error: Contact System Administrator

Cause: Following are the different scenarios when this error message is displayed:

- The error message is displayed on the "DLC::Load Assignment" page when you try to assign a load to the device that is deleted on the "System Admin::Network Summary::Device List" page.
- The error message is displayed on the "User Defined Trends::New User Defined Trends" page when you try to select a device's point for trending and that device is deleted on the "System Admin::Network Summary::Device List" page.
- The error message is displayed on the "User Defined Trends::New User Defined Trends" page when you try to select the same device's point configuration twice for trending and save the user defined trend. (Selecting the same device's point configuration means choosing the same device, NV, field point and engineering unit.)
- The error message is displayed on the "Alarms::Create New Alarm" page when you try to select a device point for generating alarm and that device is deleted on the "System Admin::Network Summary::Device List" page.

Solution: Repeat the same task that was being performed when this error message was generated. If the error persists, contact the System Administrator for assistance.

Error Messages Displayed when Configuring Excel 15B from Serial Console

Description

The following are the error messages that are displayed when setting up Excel 15B. Appropriate Cause and Solution are provided where required.

Error Messages

228. Error while starting Excel 15B

Cause: The error message is displayed if the serial console command "create empty configs" is not able to start Excel 15B services.

Solution: Contact Honeywell Technical Support team for further assistance.

229. Error while stopping Excel 15B

Cause: The error message is displayed if the serial console command "create empty configs" is not able to end Excel 15B services.

Solution: Contact Honeywell Technical Support team for further assistance.

230. Error while deleting configurations

Cause: The error message is displayed if the serial console command "create empty configs" is not able to delete any of the existing configurations.

Solution: Contact Honeywell Technical Support team for further assistance.

231. Error processing license information

Cause: The error message is displayed if the serial console command "create empty configs" is not able to process the hardware lock license information.

Solution: Contact Honeywell Technical Support team for further assistance.

232. Could not start/stop PPPoE connection. PPPoE is not configured.

Cause: The error message is displayed if the serial console command "pppoe start" is executed without configuring Excel 15B to use PPPoE connection.

Solution: Configure Excel 15B for PPPoE and then execute this command.

233. Could not start PPPoE Connection.

Cause: The message is displayed if the serial console command "pppoe start" is executed and the command fails to start PPPoE connection. Following are the probable reasons:

- ISP not available.
- Ethernet cable not connected.
- Ethernet cable damaged.

Solution: Check for the following:

- If ISP is available.
- If all the cables are connected properly.

If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

234. Could not stop PPPoE Connection.

Cause: The error message is displayed if the serial console command "pppoe stop" is executed and the command fails to stop PPPoE connection. Following are the probable reasons:

- Not having an active PPPoE connection.
- Connection either dropped or never started.

Solution: Check if the connection is active.

235. FAILED: Unknown network type.

Cause: The error message is displayed if you select a wrong network type when configuring network using the serial console command "configure network".

Solution: Select the network type as either 'p' for PPPoE or 'e' for Ethernet.

236. FAILED: Unknown configuration type.

Cause: The error message is displayed if you select a wrong network configuration type when configuring network using the command "configure network".

Solution: Select the network configuration type as either 's' for static or 'd' for DHCP.

237. FAILED: Invalid IP Address - xxx.xxx.xxx.xxx

Cause: The error message is displayed if you enter an invalid IP address when executing the serial console command "configure network".

Solution: Enter an IP address in the format specified. Example: 100.100.100.100.

238. FAILED: Invalid Netmask - xxx.xxx.xxx.xxx

Cause: The error message is displayed if you enter an invalid netmask when executing the serial console command "configure network".

Solution: Enter a valid netmask in the format specified. Example: 100.100.100.100.

239. FAILED: Invalid Gateway Address - xxx.xxx.xxx.xxx

Cause: The error message is displayed if you enter an invalid gateway address when executing the serial console command "configure network".

Solution: Enter a valid gateway address in the format specified. Example: 100.100.100.100.

240. FAILED: Invalid IP Address for Primary Domain Name Server (DNS) - xxx.xxx.xxx.xxx

Cause: The error message is displayed if you enter an invalid IP address for Primary Domain Name Server when executing the serial console command "configure network".

Solution: Enter a valid IP address for Primary Domain Name Server in the specified format. Example: 100.100.100.

241. FAILED: Host Name cannot be empty.

Cause: The error message is displayed if you leave the Host Name empty when executing the serial console command "configure network".

Solution: Enter a Host Name that is a combination of alphanumeric characters that includes '_' and '.'.

242. FAILED: Invalid Host Name - 'HOSTNAME'. Only alphanumeric, '_', '.' and dot(.)characters are allowed.

Cause: The error message is displayed if you enter a Host Name that includes special characters when executing the serial console command "configure network".

Solution: Enter a Host Name that is a combination of alphanumeric characters that includes '_' and '.'.

243. FAILED: Domain Name cannot be empty.

Cause: The error message is displayed if you leave the Domain Name empty when executing the serial console command "configure network".

Solution: Enter the domain name to which Excel 15B belongs. It must be a combination of alphanumeric characters including '_', '-' and '.'.

244. FAILED: Invalid Domain Name - 'DOMAIN-NAME'. Only alphanumeric, '_', '-' and dot(.)characters are allowed.

Cause: The error message is displayed if you enter a Domain Name that includes special characters when executing the serial console command "configure network".

Solution: Enter the domain name to which Excel 15B belongs. It must be a combination of alphanumeric characters including '_', '-' and '.'.

245. FAILED: Invalid WINS IP Address - 'xxx.xxx.xxx.xxx'

Cause: The error message is displayed if you enter an invalid WINS IP address when executing the serial console command "configure network".

Solution: Enter a valid IP address for WINS in the specified format. Example: 100.100.100.

246. FAILED: Invalid WINS Workgroup Name - 'WORK-GROUP'. Only alphanumeric, '_' and '-' characters are allowed.

Cause: The error message is displayed if you enter an invalid WINS Workgroup Name (that includes control characters).

Solution: Enter a valid WINS Workgroup Name that is a alphanumeric combination of maximum of 15 characters including '-' and '_'.

247. FAILED: Host-name/Workgroup cannot be more than 15 characters, if WINS is to be used.

Cause: The error message is displayed if you enter a host name or workgroup name that has more than the specified 15 characters length.

Solution: Enter a host name or workgroup name that has a maximum of 15 characters.

248. FAILED: Passwords do not match.

Cause: The error message is displayed when executing serial console command "configure network"; if the password that you enter for the first time does not match with password entered for confirmation for PPPoE connection. It can also be displayed when executing serial console command "change ssh password".

Solution: Enter valid passwords.

249. Invalid user

Cause: The error message is displayed if you try to execute the console commands using an invalid user ID other than "setup", "netsetup", "xl15b", and "xl15bwam".

Solution: Execute the console commands using one of the following valid user IDs: "setup", "netsetup", "xl15b" or "xl15bwam".

250. FAILED: Could not configure network.

Cause: The error message is displayed if you are not able to update Excel 15B's network configuration using the serial console command "configure network".

Solution: Try reconfiguring the network. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

251. FAILED: Could not get domain name.

Cause: The error message is displayed if you are not able to get the domain name of Excel 15B using the serial console command "network settings".

Solution: Try reconfiguring the network. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

252. FAILED: Could not get hostname.

Cause: The error message is displayed if you are not able to get the host name of Excel 15B using the serial console command "network settings".

Solution: Try reconfiguring the network. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

253. FAILED: Could not get WINS server information.

Cause: The error message is displayed if you are not able to get the WINS server information in Excel 15B using the serial console command "network settings".

Solution: Try reconfiguring the network. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

254. FAILED: Could not get Workgroup information.

Cause: The error message is displayed if you are not able to get the workgroup name of Excel 15B using the serial console command "network settings".

Solution: Try reconfiguring the network. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

255. FAILED: Password should be at least eight characters long.

Cause: The error message is displayed if you enter a password that is less than eight characters when executing "Change ssh password" serial console command.

Solution: Enter a password that is at least eight characters in length.

256. FAILED: Could not update password.

Cause: The error message is displayed if you are not able to update or reset the SSH passwords in the system using the serial console command "change ssh password".

Solution: This must not happen if you run the command by logging in as "setup", "netsetup", "xl15b", or "xl15bwam". Try changing the password again. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

257. Could not reset SSH user password.

Cause: The error message is displayed if you are not able update or reset the SSH passwords in the system using the serial console command "change ssh password".

Solution: This must not happen if you run the command by logging in as "setup", "netsetup", "xl15b", or "xl15b wam". Try changing the password again. If the error persists, then it is recommended that you contact Honeywell Technical Support team for further assistance.

APPENDIX A

Applicable Literature

The following table lists the documents that contain information related to the *Light Commercial Building Solution*.

Table 16. Applicable Literature

Model Number	Literature Form Numbers ^a					
	Specification Data	Application Selection	Application Guide	Installation Instructions	User's Guide	E-PROM Replacement
Light Commercial Building Solution						
Light Commercial Building Solution			74-3679			
XL 15 Building Managers and Controllers						
W7760A Building Manager	74-2967		74-2969	95-7565		95-7631
W7760B Building Manager				95-7668		
W7760C Plant Controller	74-3080		74-3079	95-7632		95-7632
XL 10 Application Specific Controllers						
W7750A,B,C CVAHU	74-2956	63-7046	74-2958	95-7521		
W7751B,D,F, VAVII	74-6942	63-7045	74-2949	95-7504		
W7751H Smart Actuator	74-2653		74-2949	95-7553		
W7751J Smart Actuator	74-3663		74-2949	95-7663		
W7752D,E,F,G Fan Coil Unit	74-2959	63-7043	74-2961	95-7519		
W7753A Unit Ventilator	74-2962	63-7044	74-2964	95-7520		95-7651
W7761A Remote Input/Output	74-2698		74-2699	95-7539		
W7762B Hydronic	74-2934	63-7075	74-2935	95-7563		
W7763C Chilled Ceiling	74-2989		74-2990	95-7485		
Other Network Devices						
CXS, CXL Variable Frequency Drives	63-1285					
Vacon NX Variable Frequency Drive	Refer to www.Vacon.com for information on NX VFD device.					
Q7300H Subbase T7300F Thermostat	63-1265 63-1281		63-4365	62-0134 62-0155 63-9047 ^c 62-0125 ^d		
Q7740A,B FTT Repeater	74-2858			95-7555		
Q7752B PCMCIA LONWORKS® Card	74-3067					
Q7760 Serial LONTALK® Adapter	74-2954			95-7511		
S7760A Command Display Unit	74-2972		95-7561		74-3450	95-7630
T7350 Communicating Subbase	63-1299			62-0195	63-2604	
Wall Modules						
T7560A,B Digital Wall Module	74-3097			95-7620		
T7770A,B,C,D,E,F,G Wall Modules	74-2679		95-7538	95-7538		
T7790C Wireless Wall Module	74-3435			95-7637		

^a The form numbers shown do not include the revision numbers, as these may change at any time. The revision number is indicated on the literature with a dash (-) after the form number followed by the revision number.

^b Also System Engineering manuals.

^c Installer Setup and Test pocket guide.

^d Tradeline.

Table 16. Applicable Literature (Continued)

Model Number	Literature Form Numbers ^a					
	Specification Data	Application Selection	Application Guide	Installation Instructions	User's Guide	E-PROM Replacement
Software						
ZL7300A LONSTAT™						
ZL7751A RapidZone			74-3449			
ZL7760A LONSPEC™	74-2976				74-2937	
ZL7761A LONSTATION™	74-3069				74-3068	
ZL7762B LONSTATION™ Graphics						

^a The form numbers shown do not include the revision numbers, as these may change at any time. The revision number is indicated on the literature with a dash (-) after the form number followed by the revision number.

^b Also System Engineering manuals.

^c Installer Setup and Test pocket guide.

^d Tradeline.

Agency Listings

UL E143709 compliance.

cUL Level 3 compliance.

FCC, Class B (DOC) compliance.

Complies CE EN55022 (1999), Class B. EN55024 (1999).

EN61000-3-2 (1995) = A14 (2000). EN61000-3-3 (1995).

Abbreviations and Definitions

AHU—Air Handling Unit; it refers to the central fan system that includes the blower, heating equipment, cooling equipment, ventilation air equipment and other related equipment.

Application—A specific Building Control function

ASHRAE—American Society of Heating, Refrigerating and Air-Conditioning Engineers. An international membership organization founded to advance the arts and sciences of heating, ventilation, air conditioning, refrigeration and related issues.

Binding—The process of logically connecting network variables in one node to network variable(s) in other node(s). Binding is performed by a network management node that writes the binding information into the EEPROM of each Neuron® involved. The binding information is saved in the network image of each neuron.

Building Manager—A LONMARK® certified device that can be used to monitor and control HVAC equipment and other miscellaneous loads in a distributed network.

Bypass—Temporary override of the scheduled occupancy state to the occupied mode. At the end of the bypass time, the control returns to the scheduled occupancy state.

CO—Carbon Monoxide; occasionally used as a measure of indoor air quality.

CO₂—Carbon Dioxide; often used as a measure of indoor air quality.

CVAHU—Constant Volume Air Handling Unit; refers to a type of air handler with a single speed or 2 speed fan that provides a constant amount of supply air to the space it serves.

CD—Command Display (S7600A); a device with a user interface that provides menu driven access to a Light Commercial Building Solution system. The S7600A is configured with LonSpec™ or RapidZone software configuration tools to display data, modify setpoints, and schedules for LCBS object on the LonWorks® bus. Multiple S7600A's may be used on a network.

Continuous Trend—A type of log that starts accumulating data after configuration and continues to record data until re-configured. After a specific number of configured samples are recorded, the data is replaced on a first-in-first-out basis. This results in the most recent data being in the trend at the time of viewing or downloading.

Control Loop—a control function; a type of function in a node that includes processes, loops and programs. A node can contain one or more control loops. (In Excel10 devices, the control loop occupies the entire node. In Excel15 device, each start-stop loop, PID control loop, and Logic Loop is a control loop).

Control Object—Refer to Object on [page 79](#).

COS—Change of State; this condition is used with schedule states such as occupied and unoccupied. Changing from the occupied mode to the unoccupied mode is change of state.

CZS—Commercial Zoning System; an air distribution using a single zone CVAHU primary plant and multiple zone damper to control zone temperature. See RapidZone literature guides for more information.

D/X—Direct Expansion; refers to a type of mechanical cooling where the refrigerant is expanded to its cold state in a heat exchanging coil that mounts in the air stream supplied to the conditioned space.

DLC—Demand Limit Control; a function that controls the maximum power demand made on the whole system by shedding some of the demand where power usage exceeds the predefined limit. Shedding requires turning off some digital output, or changing a setpoint to a more economical level.

Echelon®—The company that developed the LonWorks® Bus and the Neuron® chips used to communicate on the LonWorks® Bus.

Economizer—Refers to the mixed-air dampers that regulate the quantity of outdoor air that enters the building. In cool outdoor conditions, fresh air can be used to supplement the mechanical cooling equipment. Because this action saves energy, the dampers are often referred to as economizer dampers.

EEPROM—Electrically Erasable Programmable Read Only Memory; the variable storage area for saving user set point values and factory calibration information.

EMI—Electro-Magnetic Interference; electrical noise that can cause problems with communications signals.

EMS—Energy Management System; refers to the controllers and algorithms responsible for calculating optimum operational parameters for maximum energy savings in the building.

Enthalpy—The energy content of air measured in BTU's per pound (KiloJoules per Kilogram).

EPID—Enhanced Proportional Integral Derivative Control; it improves the PID control algorithm by compensating for system dynamics and allows faster control response rate reset. It also incorporates a sequencer, AI limit, deadband, start ramp and set point override.

EPROM—Erasable Programmable Read Only Memory; the firmware that contains the control algorithms for the Excel15 and Excel10 devices.

Excel 10s—A family of application specific HVAC devices such as the W7750 CVAHU, the W7753 UV, and the W7761 RIO.

Firmware— Software stored in a nonvolatile memory medium such as an EPROM.

Floating Control—Refers to Series 60 Modulating Control of a valve or damper. Floating Control utilizes one digital output to drive the actuator open and another digital output to drive it closed.

Hydronic—HVAC systems that use water or steam as the heating or cooling medium.

HVAC—Heating Ventilation Air-Conditioning. Equipments that manage heating, ventilation and air-conditioning in buildings belong to the HVAC group.

IAQ—Indoor Air Quality; refers to the quality of the air in the conditioned space, as it relates to occupant health and comfort.

I/O—Input/Output; these are the physical sensors and actuators connected to a device.

I*R—I times R or current times resistance; refers to Ohms Law: $V=I*R$. 'V' refers to Voltage.

Level IV—Refers to a classification of digital communication wire. Formerly known as UL Level IV, but not equivalent to Category IV cable. If there is any question about wire compatibility, use Honeywell-approved cables (see Step 5 Order Equipment section).

LonWorks® Bus—Echelons LonWorks® network for communication among NX VFD, VFD, CD, SLTA, Wireless LonWorks® Receiver, RapidLink, Excel 15 and Excel 10 devices.

LonWorks® Bus Segment—A LonWorks® Bus network that contains a maximum of 120 controllers—a combination of Excel 10s, Excel 15s, VFD, CD, SLTA, Wireless LonWorks® Receiver, RapidLink, and NX VFD. A segment can have a repeater that allows the bus wire length to be doubled.

Mandatory Mechanisms/Objects/Network Variables—Mandatory mechanisms, objects and network Variables that are implemented in all of the Excel10 devices.

Named Object—Objects that have names are called Named Objects. These objects are visible on the network as functional independent entities and are accessed by name. Typical examples of Named Objects are devices, control loops and logic function blocks.

NEC—National Electrical Code; the body of standards for safe field-wiring practices

National Electrical Manufacturers Association—The standards developed by an organization of companies for safe field wiring practices.

Network Management Node—A LonWorks® node that is responsible for configuring the network, installing the nodes, binding the network variables between nodes and general network diagnostics.

Network Time Master—A network time master will be the only device sending out the time and date. All the clocks of the controllers on the network are updated with the time of the network time master (by the network time master). Network time master maintains the master clock. Network time master is chosen or configured from LonSpec™ and remains unchanged until re-configured, even in the event of a failure on the network time master.

Network Time Scheduler—The network time scheduler sends out current and next state (occupied, unoccupied, or standby) and time until the next change of state (TUNCOS) to all of its control loops based on the configured schedules.

Network Variables—A class of variables defined in Neuron C that allow communication over the LonWorks® network to other nodes on the network. For example: an output network variable in one node can be bound to the corresponding input network variable(s) in other node(s). Changing the value of the output network variable in one node causes the new value to be automatically communicated to the bound input network variable(s) in other node(s). When an input network variable is updated, an `nv_update_occurs` event is posted at the receiving node(s) so that the application program can take action based on the change. A network management node that explicitly reads and/or writes the network variable can also poll network variables. Network variables can contain one data field (one or two bytes) or multiple data fields (a structure).

Node—A device on a network; an Excel 15 or Excel 10 device is one node on the LonWorks® Bus network.

NV—Network Variable; an XL 15 or XL 10 parameter that can be viewed or modified over the LonWorks® Bus network. Refer to Network Variables on [page 79](#) for more information.

NX VFD—NX Variable Frequency Drive—a product of Vacon Group. It is an electronic device used for controlling speed and torque of alternating current (AC) induction motors. It converts the fixed frequency of the main supply (mains) to a variable frequency that can then be regulated to provide flexible motor operation and further reduce energy consumption. For more information on NX VFD, see www.Vacon.com.

Object—Also referred to as control object or network object. It consists of a single control algorithm with multiple input, output, set points and/or configuration parameters. Each XL 10 application specific device is a single object. Each start-stop loop, control loop and logic function in an XL 15 device is a unique object.

Password—A string of characters used to confirm valid system access for a given user. Good security standards require a password to be:

- at least 8 characters long
- a mix of alpha, numeric and special characters
- difficult to decode; not be a name, birth date, or other combination easily discovered by another person
- changed frequently (every 6 months)

PC—Personal Computer; it has Pentium processor capable of running any operating system including Microsoft® Windows® 95.

Plant Controller—A device that can be used to monitor and control HVAC equipment and other miscellaneous loads in a distributed network.

Proportional Control—A control algorithm or method in which the final control element moves to a position proportional to the deviation of the value of the controlled variable from the set point.

PI—Proportional Integral Control; a control algorithm that combines the proportional control and the integral reset control algorithms. Integral reset virtually eliminates offset by gradually shifting the controlled output in the direction that brings the controlled variable back to the set point.

PID—Proportional Integral Derivative Control; a control algorithm that enhances the PI control algorithm by adding a component that is proportional to the rate of change (derivative) of the deviation of the controlled variable. PID compensates for system dynamics and allows faster control response rate reset.

PWM—Pulse Width Modulated Output; allows analog modulating control of equipment using a digital output on the device.

RapidLink—Honeywell RapidLink Q7770A1001. RapidLink™ is an RS232 and telephone line compatible serial device that allows any host (PC) with an RS 232 or Modem interface (and the necessary driver software) to communicate with a LonWorks® network.

RCD—Remote Communication Device; for the Building Management System, this is a piece of hardware that is functionally compatible to an SLTA and provides access directly to the LonWorks® Bus.

Recovery Mode or Recovery Period—The time in unoccupied period when the temperature control is adjusting the control set point so that the space temperature reaches the occupied set point when the schedule change occurs.

Reset—The reset of a control loop varies depending upon the type of control loop being reset. A reset for a thermostat loop or a control loop changes the set point and the algorithm in the energy saving direction. A reset for a start/stop loop causes the digital output to go to the inactive state before returning to its normal scheduled state.

RIO—Excel10 Remote I/O Device; additional inputs and outputs that can be configured for use by an XL 15 W7760A or W7760C.

RTU—Roof Top Unit; typically refers to a CVAHU built as a single unit designed to be installed on a rooftop. Other types of AHUs are also built for roof top mounting.

RTD—Resistance Temperature Detector; refers to a type of temperature sensor whose resistance output changes according to the temperature change of the sensing element.

T7300H/Q7300H—Thermostat/Subbase application specific to commercial programmable thermostat applications that are per the LONMARK® HVAC profile 8060 object type 09.

T7350—The T7350 thermostat/subbase is application specific to commercial programmable thermostat. Different subbases are used for different applications including Three Heat or

Three Cool, or Two Heat or Four Cool, Modulating Outputs, and Dehumidification High Limit Control. Each subbase is compatible with the common cover assembly.

Schedule—The structure that defines the occupancy states. Set points and the time of the changes between these states.

SLTA—Serial LonTalk® Adapter; a serial interface between the EIA-232 (serial port on a PC) and a LonWorks® Bus used to adapt transformer-coupled Echelon® messages.

TOD—Time-of-Day; the scheduling of occupied and unoccupied times of operation

TUNCOS—Time Until Next Change of State; it is a command that can be sent to other devices.

UV—Unit Vent; it is a specialized AHU designed to control high rates of ventilation as defined by ASHRAE (Cycle I, II, or III).

User Identification (ID)—A combination of alpha numeric characters used to identify a specific user accessing a W7760B Building Manager. The user ID appears in the Log In process and other documentation. A password is required with the user ID to gain access to the system.

VA—Volt Amperes; a measure of electrical power output or consumption as applicable to an ac device.

VAC—Voltage Alternating Current; an AC voltage instead of a DC voltage.

VAV—Variable Air Volume; refers to a type of air distribution system in which the space temperature is controlled by the volume of air delivered to the space.

VAV II—Variable Air Volume II; an Excel10 application specific device for VAV terminal units.

VFD—CXS/CXL Honeywell Variable Frequency Drive (VFD). The Excel VRL CX/CXL/CXS frequency drive is used for controlling speed and torque of three-phase alternating

current (AC) motors. Excel VRL CX/CXL/CXS frequency converters can be connected to LonWorks® network by using CX203OPT option board. They can then be controlled, monitored, and programmed from the LonWorks® network.

VOC—Volatile Organic Compound; it refers to a class of common pollutants sometimes found in buildings. Sources include out-gassing of construction materials, production-line by-products and general cleaning solvents. A VOC is occasionally used as a measure of indoor air quality.

W7750—The model number of the Excel 10 CVAHU Devices.

W7751—The model number of the Excel 10 VAV Terminal Unit Devices.

W7752—The model number of the Excel 10 Fan Coil Unit Devices.

W7753—The model number of the Excel 10 UV devices.

W7760A—The model number of the Excel 15A Building Manager Devices.

W7760B—The model number of the Excel 15B Building Manager Devices.

W7760C—The model number of the Excel 15C Plant Managers.

W7761—The model number of the Excel 10 RIO devices.

W7762—The model number of the Excel 10 Hydronic device without integral wall modules.

W7763—The model number of the Chilled Ceiling Controllers.

Wall Module—The Excel 10 Space Temperature Sensor and other optional device inputs are contained in the T7770, the T7560A,B, or T7790 wall modules.

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