

Introduction

The Simplex TrueSite Building System Information Unit (BSIU) software application provides PC-based graphical command center functionality, including centralized annunciation, historical logging, report generation, and control of fire alarm points. This application supplements other listed fire alarm controls.

Features

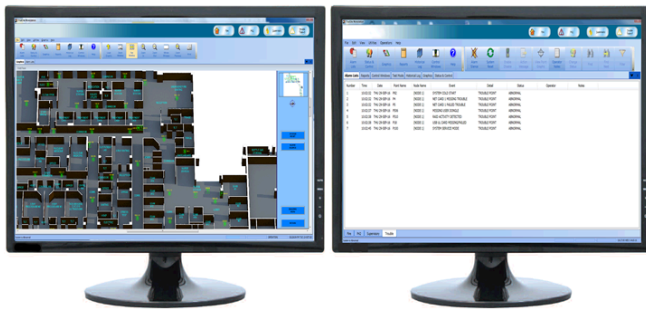


Figure 1: BSIU desktop application

- **Simplex fire alarm network connected** graphical interface control
- Compatible with Simplex ES Net networks
- **Supports standard fire service annunciation icons** to provide firefighter and first responders with critical fire response information
- **Custom alarm and system messages** can intuitively guide emergency responders; important information, such as HAZMAT locations, contact information and more, can be quickly presented
- **Color graphical annunciation and control** of all points that are also controllable by the fire alarm control unit or listed control annunciator installed in same room
- **Floatable and dockable windows** allows windows to either be fixed (docked) or floatable
- **Quad monitor support** allows multiple active windows, or run separate client/server instances on individual monitors, with up to four total supported monitors
- **Pan-and-zoom features** allow precise dynamic navigation within a graphic screen for rapid and convenient selection of the area of interest
- **Configurable coverage zones** allow user defined areas or zones within a graphics screen to indicate the area of activity without zooming into the point of interest
- **Auto-jump** allows the screen view to automatically jump to a graphic at a predetermined zoom level with the active device centered on the screen; alternately, the system can be selected to auto-jump to the Alarm List window
- **Dedicated PC required** The PC running the BSIU software can only contain the BSIU, a compatible operating system and an anti-virus. Additional software is not allowed
- **Extensive historical logging** Up to 500,000 events with operator notations; information is spreadsheet and database compatible for report customization
- **Multiple password** controlled operator levels with selectable feature access
- **Printer support** Only connect your BSIU to a UL-864 listed printer.
- **Operating systems** Compatible with Windows 10 Professional or Enterprise, 32-bit and 64-bit
- **Export to XML** feature allows TrueSite BSIU data to be easily exported for report generation and customization

- **Test mode** allows unobtrusive testing of selective devices without nuisance interruptions at the BSIU
- **Password security** supports 8 to 16 alphanumeric passwords with configurable lockout for failed attempts
- **Operator notes** Log notes associated with individual events for historical records and retrieval
- **Sound files (WAV)** can be used to create custom audible status annunciation using local onboard speakers
- **Fahrenheit or Celsius** temperatures can be displayed for screens showing heat sensor temperatures
- **Software Maintenance Agreement (SMA)** provides access to new software features as well as cyber-security and compatibility updates. The first year is included with the new system with an option to renew

Agency listings

- UL 864 as Fire Alarm Control Unit Annunciator (UOJK.S771)

Graphic screens details

- Over 30,000 custom fields generated and edited graphic screen capacity is available
- Multiple import and export formats are supported (see Supported Graphics Formats section in [Graphics screens](#))

Additional fire alarm network capabilities

- Multiple workstations can be nodes on the same fire alarm network to provide redundant operations for improved survivability
- Graphical diagnostic tools identify network node and loop status
- Set-host service functions allow access to remote network node data including individual TrueAlarm analog sensors
- Provides event printing (with compatible printer), view or print of status and service reports, TrueAlert Self-Test reports, and print graphic screens

Network annunciation

The BSIU software application provides supplemental annunciation, status display, and control for Simplex Fire Alarm Networks using a personal computer based graphical interface located in the same room as the fire alarm control unit or other listed annunciator. Response buttons with realistic icons provide control switches specific to the operation being performed.

Multiple access levels

Operator access level is determined during log-in. Select functional access to match the training and responsibility of the operator. Operators with additional TrueSite BSIU and fire alarm network training may be qualified for access to sensitive areas. For operators who are primarily concerned with immediate facility security, a lower level access will provide the information necessary for proper response but will not allow access to key parameters that determine overall system/network operation.

*Refer to Product Selection tables for specific product listing details.

Graphical network status views

Automatic, built-in diagnostics are available to provide graphical views of network topology and network status. Missing communications links due to wiring breaks or shorts as well as inactive network nodes are indicated clearly to guide in returning the system to normal. Information screens are available to provide detail about each specific network node. Network level functions such as timekeeper node and monitor node are indicated as well as identification of the node being used for the diagnostic.

Individual point service access

The BSIU operator's interface provides service level access to network information that is not normally "public." Network "private" point information can be accessed using the Set-Host feature, and logging into the database of the network and node of interest. With this operation, individual point information can be accessed and controlled as required by qualified service personnel with proper password access.

ES Net software compatibility

ES Net product compatibility with the BSIU software requires the following software versions:

Table 1: ES Net software requirements

Software	Required software version
Network Programmer	2.04 or above
ES Programmer	6.01 or above

Table 2: ES Net firmware requirements

Component	Required firmware version
4100ES control unit	6.01 or above
4010ES control unit	6.01 or above
4007ES control unit	6.01 or above
ES Net NIC Application	1.04
ES Net NIC EOS	1.04

TrueSite BSIU operation

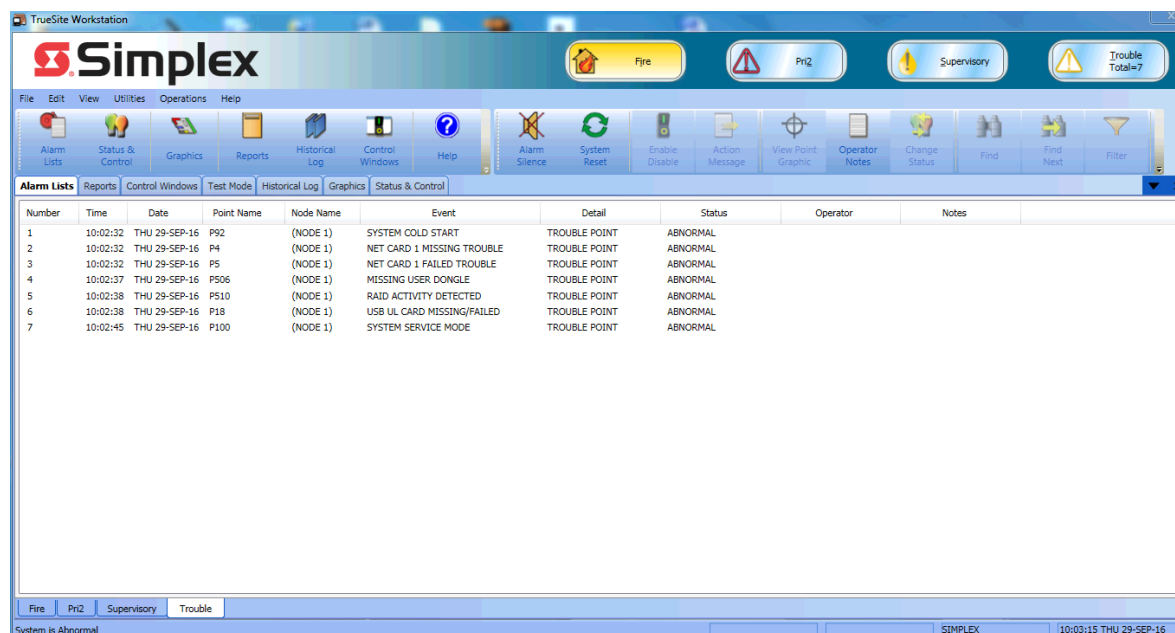


Figure 2: TrueSite BSIU sample alarm lists screen

Operation

When fire alarm network status changes occur, the screen displays the type and location of the alarm (or other activity) and the appropriate header buttons appear. In the historical log screen above in Figure 2, Fire, Priority 2, Supervisory, and Trouble buttons are shown with an active Trouble indicated.

Sample screens

Figure 2 is representative of historical log screen detail. Screen choices can be configured per system preference. However, when using multiple optional monitors, multiple windows can be visible simultaneously for operator convenience.

Ease of operation

With touchscreen monitors, the operator touches the screen area in alarm (or uses the mouse control) to access a more detailed view of the alarmed zone or device. With the proper password access, the operator has the ability to acknowledge alarm and trouble conditions, activate signal silence, and perform system reset directly from the BSIU screens.

Programmable activity timeout

Programmable activity timeout allows an unattended monitor to revert to the login screen when the configured time period expires.

Individual user preferences

Individual user preferences appear when the user logs in. Options include: Font Size (default or large); Toolbar Size (small or large); Interface Theme (MS Office 2003 or System); Floating Window Options (select whether to show Menu bar or show Tool bar).

Historical log and list details

Figure 2 above shows historical log details. The display format is similar to the display for active list items such as the alarm list. Displayed information can be sorted on-screen by each category shown, such as number, time, date, point name and more. List information can be reviewed on the screen, printed at a local or remote system printer, or can be written to an electronic file for compatibility with spreadsheet and database programs.

Customized response

Custom alarm and trouble messages can be added and field edited to provide operator response assistance. Point specific information, such as hazardous material storage and lists of people to notify, can be automatically or selectively displayed.

Graphics screens

Site and floor plan details

Graphics screens can provide easily recognizable site plan and floor plan information. You can customize the level of detail for the specific facility to accurately direct the operator to the immediate area of interest.

Graphic screen controls

The graphics portion of the screen is shown as a main screen but you can set it to float and move the graphics portion to another monitor. You can add icons to identify the location and type of the device of interest and use the graphics control toolbar (located at the top of the graphic) to pan and zoom for more precise detail. You can add programmable coverage zones with selectable area and zoom level. As shown below, you can add a fixed area site plan (key plan) with action buttons and screen locator. A green rectangle in the key plan tracks pan and zoom.

Custom banner and main screen background

You can customize the banner area shown with a Simplex logo (bitmap area is 2250 pixels x 68 pixels). You can customize the main screen background (viewable prior to login) with a bitmap of up to 1000 pixels x 525 pixels.

Action messages

In addition to screen text or graphic information, the operator can be presented with specific action messages that provide emergency response information and directions. These action messages are easily field edited for local requirements. The appropriate action message in the screen below would be located in the Acknowledge dialog box.

Auto-jump to graphics or alarm list

Select whether activity should cause a jump to a list format or to the associated graphic screen.

Supported graphics formats

- DWG import formats: AutoCAD R9, 10, 11-12, 13, 14, 2000-2002, 2004-2006, 2007-2009, 2010-2011
- DXF import formats: AutoCAD R14 and 2000
- Export formats: AutoCAD 2000 DWG/DXF format (allows editing in AutoCAD 2000 or later)
- Import drawing files: DWG, WGS, IMS/GCC DOC files, WMF, BMP, GIF, and JPG

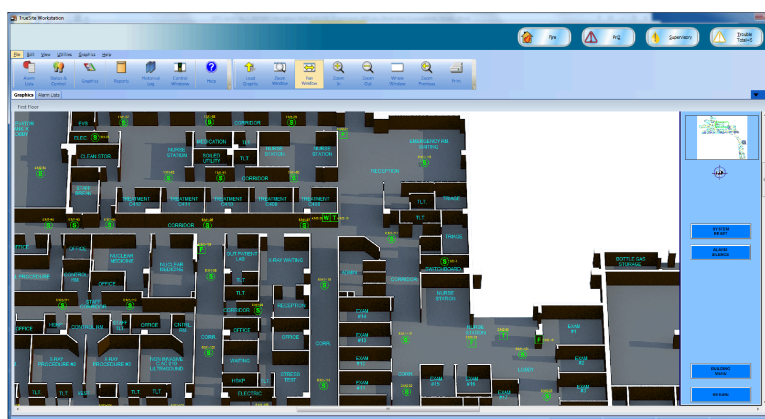


Figure 3: TrueSite BSIU sample graphics screen

Product selection

This section details information and ordering numbers for TrueSite BSIU software.

Note: Equipment and specifications may vary due to equipment design changes.

Table 3: Computer minimum requirements

Item	Minimum requirements
BSIU computer	Compatible with Microsoft Windows 10 Professional or Enterprise, 32-bit and 64-bit. Intel i7 2.4 GHz CPU, or Core 2 Duo 2.1 GHz CPU, 4 GB RAM, 160 GB minimum hard drive, four USB ports, dual Gigabit LAN ports, USB keyboard and mouse, SVGA video output with 16 MB VRAM, CD/DVD Drive, PCI and ISA slots (as required), integral audio and internal speakers, additional ports as required for custom features such as USB.

Note:

1. LAN/WAN connections require use of Transient Suppressor 4190-6010.
2. A UL-1481 Listed Uninterruptible Power Supply (UPS) is required for secondary power per UL requirements.
3. A BSIU computer must be listed to product safety standard ANSI/UL 60950, *Information Technology Equipment — Part 1: General Requirements*, or ANSI/UL 62368-1 *Audio/Video, Information and Communication Technology Equipment — Part 1: Safety Requirements*, or equivalent.

Table 4: Software and feature selection

Option	Model	Description
Applications software	4190-8408	BSIU software includes a license and documentation. The license includes a renewable one year Software Maintenance Agreement (SMA) that provides access to the newest software features, and cyber-security and compatibility updates.
TrueSite Workstation applications software	4190-5050	TrueSite Workstation Server Software, includes: License, Documentation. Refer to datasheet S4190-0016 for more information.
Server feature options	4190-5065	TrueSite Feature Upgrade; includes the latest TrueSite software version and an Upgrade Feature Code to enable new standard features (new optional features are selected separately); without this upgrade, installing the latest software version provides updated performance improvements over previous versions but does not include new standard software features.
	4190-5069	TrueSite Maintenance Upgrade, use to obtain software updates covered under your SMA.

Table 5: Aftermarket additions product selection

Option	Model	Description
Server feature options	4190-5065	TrueSite Feature Upgrade; includes the latest TrueSite software version and an Upgrade Feature Code to enable new standard features (new optional features are selected separately); without this upgrade, installing the latest software version provides updated performance improvements over previous versions but does not include new standard software features.
	4190-5069	TrueSite Maintenance Upgrade, use to obtain software updates covered under your SMA.
	4190-8605	Aftermarket software addition
Applications hardware	4190-8901	Aftermarket hardware addition. For the Transient Suppressor, order the 4190-6010 sub-feature.

Table 6: Programming options

Option	Model	Description
Programming (select)	4190-8122	TrueSite Programming; select Programming Items below
Programming Items (select items per system requirements; select quantity of items as required) requires selection of 4190-8122	4190-4006	AutoCAD DXF or DWG file, one floor plan (multiple floor plans require dedicated files)
	4190-4019	Convert SMALL floor plan to 3D-style
	4190-4020	Convert MEDIUM floor plan to 3D-style
	4190-4021	Convert LARGE floor plan to 3D-style
	4190-4008	25 Custom Action Messages
	4190-4009	25 Travel Screen Keys (selective zooming)
	4190-4010	25 Status Icons
	4190-4011	25 Control Functions; On/Off, Bypass, etc.
	4190-4012	Convert one existing IMS screen to a standard 2D screen
	4190-4013	10 Coverage Zones; order quantity as required

Table 7: Printing options

Port	Description
Event printing	If you require an event printer, use a supervised and dedicated Simplex Model 4190-9027 agency listed dot matrix printer; connection is to USB or Serial RS-232 Port of the Server PC. See datasheet S4190-0027 for printer details.
Other printing	For report, screen, or graphics printing, use a Windows compatible printer. Connection can be USB, Serial RS-232, or LAN/WAN connection through Ethernet

Table 7: Printing options

Port	Description
Printable information	Event printing with supervised and dedicated dot matrix printer 4190-9027, see Event printing.
	Auto-print of auto-jump graphics; prints to Windows default printer
	Reports: historical logs, system activity, TrueAlarm status, TrueAlarm service, TrueAlert Self-Test, analog monitor ZAM calibration, and active list; displayed reports can print to a LAN connected (unsupervised) printer
	Screen captures (configurable as negative images to reverse black backgrounds)

ES Net network options

Note: For additional information on ES Net networks and ES Net network product specifications see datasheet *S4100-0076*.

Table 8: ES Net external NIC for BSIU product selection

Model	Enclosure	Description	Power	Alarm/Supv.
4190-9832	Red	Connects a TSW, Incident Commander or BSIU to the ES Network. ES control unit network supports Class B or Class X operation, TSW connections are Class B. Includes four built in Ethernet ports, supports one additional media card. Ports A and C can be configured for earth fault detection. Wall mount enclosure measures 10 in. x 10 in. x 2.5 in.	120/240 VAC	120 mA
4190-9833	Platinum		120/240 VAC	
4190-9834	Red		24 VDC	
4190-9835	Platinum		24 VDC	

Table 9: ES Net NIC cards for 4100ES

Model	Card Type	Description	Size	Alarm/Supv.
4100-6104	Slot - install to a single slot in a 4100ES bay	Mounts in 4100ES cabinet. Connects a 4100ES FACU, TrueSite Workstation, BSIU, or Incident Commander to an ES Net Network. Supports Class B or Class X operation. Includes four built in Ethernet ports, install to a single slot in a 4100ES bay. Supports up to two additional media cards. Ports A and C can be configured for earth fault detection.	One slot of a 4100ES bay	120 mA
4100-6310	Flat - install to any two vertical block space in a 4100ES bay		Two vertical blocks	

Notes:

1. Network interface cards include built-in Ethernet network communication ports, order optional media cards as required.
2. TrueSite BSIU connection is Class B, for Class X networks BSIU connection must be 20 ft (6 m) maximum in conduit.

Table 10: ES Net dual channel media modules for external NIC and 4100ES NICs

Model	Card type	Description	Size	Alarm/Supv.
4190-9856	ES Net NIC dual channel Ethernet media card	Select per network connection requirements; mounts on the supplied ES NIC(s); one media card per external NIC network interface card.	N/A	20 mA
4190-9858	ES Net NIC Dual Channel Single-mode Fiber Media Card	Dual Channel Media Cards provide two ports for input and output connections. Field connections require proper port pairing, refer to <i>579-1258 ES Net Dual Channel Fiber, Ethernet, and DSL Media Card Installation Instructions</i> for additional information.	N/A	135 mA
4190-9859	ES Net NIC Dual Channel Multi-mode Fiber Media Card		N/A	135 mA
4190-9857	ES Net NIC Dual Channel DSL Media Card		N/A	155 mA

Note: DSL media cards are not ULC listed for fire alarm applications.

Fiber media card service kits

Table 11: ES Net fiber media card service kits

Model	Fiber type	Description
4100-6412	50/125 µm multi-mode	For use in retrofit jobs where fiber optic cables with ST connectors are already installed. Includes one ST to SC 18 in. (45.7 cm) fiber optic patch cord, one ST-ST coupler, one wire clamp, and one insulating sleeve.
4100-6413	62.5/125 µm multi-mode	
4100-6414	9/125 µm single-mode	

Note: Fiber optic media cards must be of the same type on each end of the fiber link. When replacing a media card with a different type, replace the card on the other end of the link with a fiber optic media card of the same type.