TrueAlarm® Fire Alarm Systems

UL, ULC, CSFM Listed; FM Approved;
*MEA (NYC) Acceptance**

Fire Alarm Network Annunciators;
TrueSite™ Workstations

Features

TrueSite Workstation fire alarm network functions:

- 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 (HAZMAT locations, contact information, etc.) can be quickly presented
- Color graphical annunciation and control capacity for up to 50,000 points or point groups
- Extensive historical logging; up to 500,000 events with operator notations; information is compatible with spreadsheet and database programs for report customization
- Optional interface to Digital Alarm Communicating Receiver (DACR) integrates multiple systems onto a single workstation*
- Multiple password controlled operator levels with selectable feature access
- Available optional connections for printers or other compatible systems (see details on page 7)
- Agency listed systems are supplied with Windows® Vista® Business operating system (operation is also compatible with Windows XP operating system)

Graphic screens details:

- Over 30,000 custom field generated and edited graphic screen capacity is available
- Multiple import and export formats are supported (refer to page 3 for details)

Enhanced operator interface features:

- ***Floatable and dockable windows*** allows windows to either be fixed (docked) or floatable; floatable windows and dual monitors allow the Alarm List Window to be on one monitor and the Graphics Window on the other
- ***Pan-and-zoom graphic controls*** features allow precise dynamic navigation within a screen for rapid and convenient selection of the area of interest
- ***Configurable icon touch size*** coordinates zoom level with the need to accurately select the icon of interest
- ***User defined coverage zones*** allow user defined areas or zones within a graphics screen to be highlighted to indicate the area of activity without zooming into the point of interest
- ***Configurable zoom levels*** provide an automatic zoom level when the point of interest is selected
- ***Enhanced auto-jump*** allows the screen view to be selected to automatically jump to the Graphic Screen Window 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
- ***Captive operation*** dedicates the screen to the TrueSite Workstation; other applications are unavailable
- ***Non-Captive operation*** allows other Windows applications to function (word processing, spreadsheet, etc.); however, workstation activity takes precedence

TrueSite Workstations can Optionally Support Dual Monitors (shown as expanded desktop mode)

Features *(Continued)*

Simplex® Fire Alarm Network capabilities:

- Multiple workstations on the same network can perform redundant operation or different functions
- Graphical diagnostic tools identify network node and loop status
- Connect to up to four separate network loops
- Set-host service functions allow access to remote network node data including individual TrueAlarm® analog sensors
- View or print TrueAlarm service reports and print graphic screens (see page 7 for printer compatibility)
- Compatible with IMS (Information Management Systems) and GCC (Graphic Command Center) on the same fire alarm network
- 2120 Multiplex Serial Line Interface (SLI) allows connection to up to eight, 2120 Multiplex systems

Selectable packaging:

- Computer is available as desktop or rack mount with mouse operation and/or touchscreen operation providing convenient user interface
- High resolution (1280 x 1024) LCD monitors:
  – 17 or 19 inch diagonal standard desktop
  – 17 or 19 inch diagonal desktop with touchscreen
  – 19 inch diagonal rack mount with touchscreen
- Optional video card supports dual monitors providing either expanded desktop (dualview) or duplicate screen (clone) operation

Agency listing details*:

- UL 864 & ULC-S527 as Control Unit Accessory
- UL 864 & ULC-S559 for Fire Proprietary Supervising Station Receiver
- UL 1076 for Proprietary Security
- UL 1610 for Central Station Security

* Refer to page 6 for additional product listing information. This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7300-0026:323 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Accepted for use – City of New York Department of Buildings – MEA35-93E (does not include model 4190-8403). Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Safety Products Westminster.

Description

Network Annunciation. TrueSite Workstations provide annunciation, status display, and control for Simplex Fire Alarm Networks using a personal computer based graphical interface with a high resolution, color display. Response buttons with realistic icons provide control switches specific to the operation being performed.

Multiple Workstations can be installed on the same network for redundancy or to route (vector) point type annunciation to the appropriate workstation depending on type, location, or other criteria. A separate TrueSite Workstation can also be dedicated as a maintenance terminal for performing higher level network operations.

DACR Compatible. For systems requiring information from remote control panels via DACTs (Digital Alarm Communicating Transmitters), workstations can be equipped to communicate directly with a compatible DACR; refer to page 5 for details.

TrueSite Workstation Operation

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 example shown below in Figure 1, Fire, Priority 2, Supervisory, and Trouble are shown.

Sample Screens. The screens shown in Figure 1 (below) and in Figure 2 on page 3, were captured from a TrueSite Workstation with an optional 4190-6038 video card providing an extended desktop area (dual view mode).

TrueSite Workstation Operation *(Continued)*

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 conditions, activate signal silence, and perform system reset directly from the workstation screens.

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

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); Application Mode Options (captive environment or non-captive environment).

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.

Historical Log and List Details. Figure 1 below 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 (number, time, date, point name, etc.). 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.

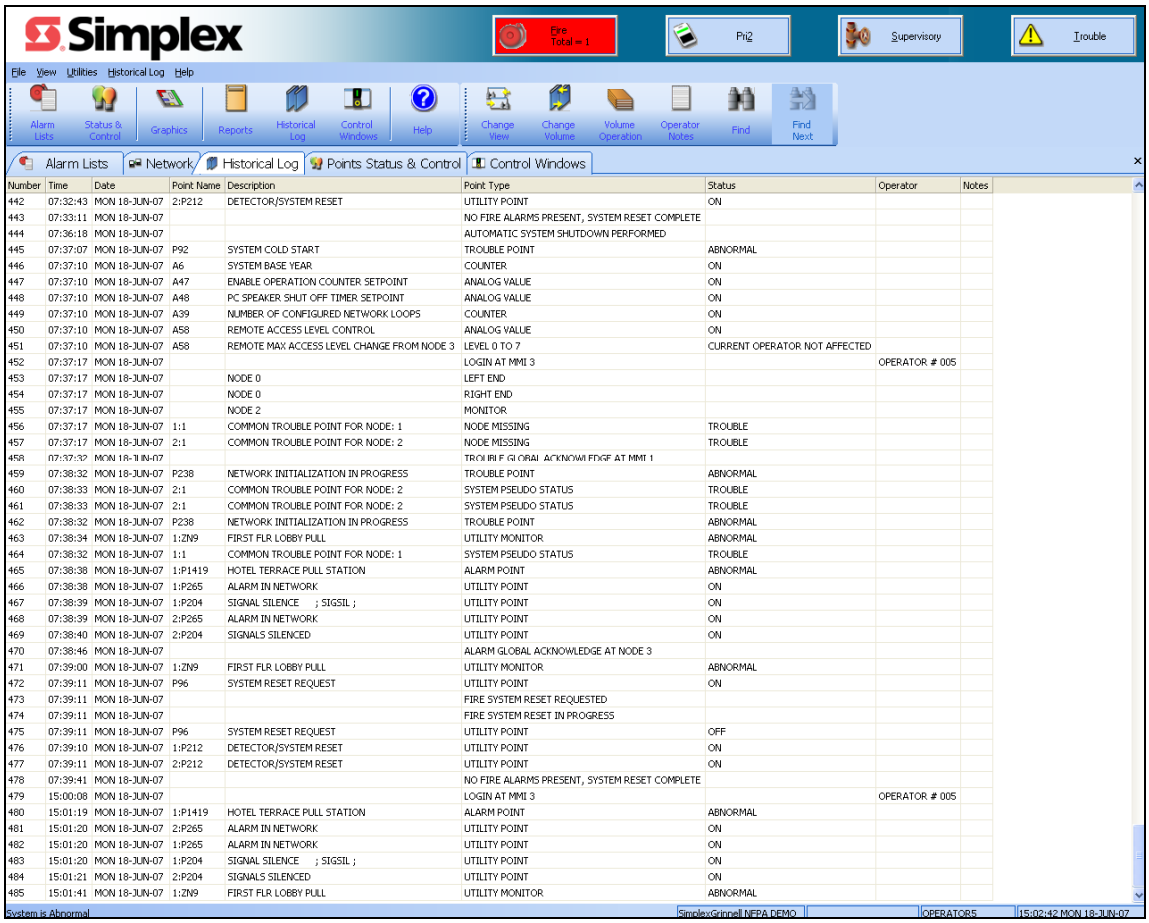


Figure 1. TrueSite Workstation Sample Historical Log Screen

Password Control

Multiple Access Levels. Operator access level is determined during log-in. Functional access needs to be selected to match the training and responsibility of the operator. Operators with additional TrueSite Workstation 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.

Graphics Screens

Site and Floor Plan Details. Graphics screens can provide easily recognizable site plan and floor plan information. The level of detail can be customized for the specific facility to easily and accurately direct the operator to the immediate area of interest.

Graphic Screen Controls. The graphic screen below was set to float and was moved to the right side monitor. Icons can be added to identify the location and type of the device of interest and the graphics control toolbar (located at the top of the graphic) can be used to pan and zoom for more precise detail. Programmable view buttons can be added with selectable area and zoom level.

Custom Banner and Main Screen Background. The banner area shown with a Simplex logo in Figure 1 can be customized (bitmap area is 1024 x 68 pixels). The main screen background (viewable prior to login) can be customized with a bitmap of up to 1000 x 525 pixels.

Graphics Screens *(Continued)*

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 found in the Acknowledge dialog box.

Auto-Jump to Graphics or Alarm List. Select per point 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, and 2007
- 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, and BMP

Individual Point Service Access

Qualified Operator Detail Access. The workstation 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.

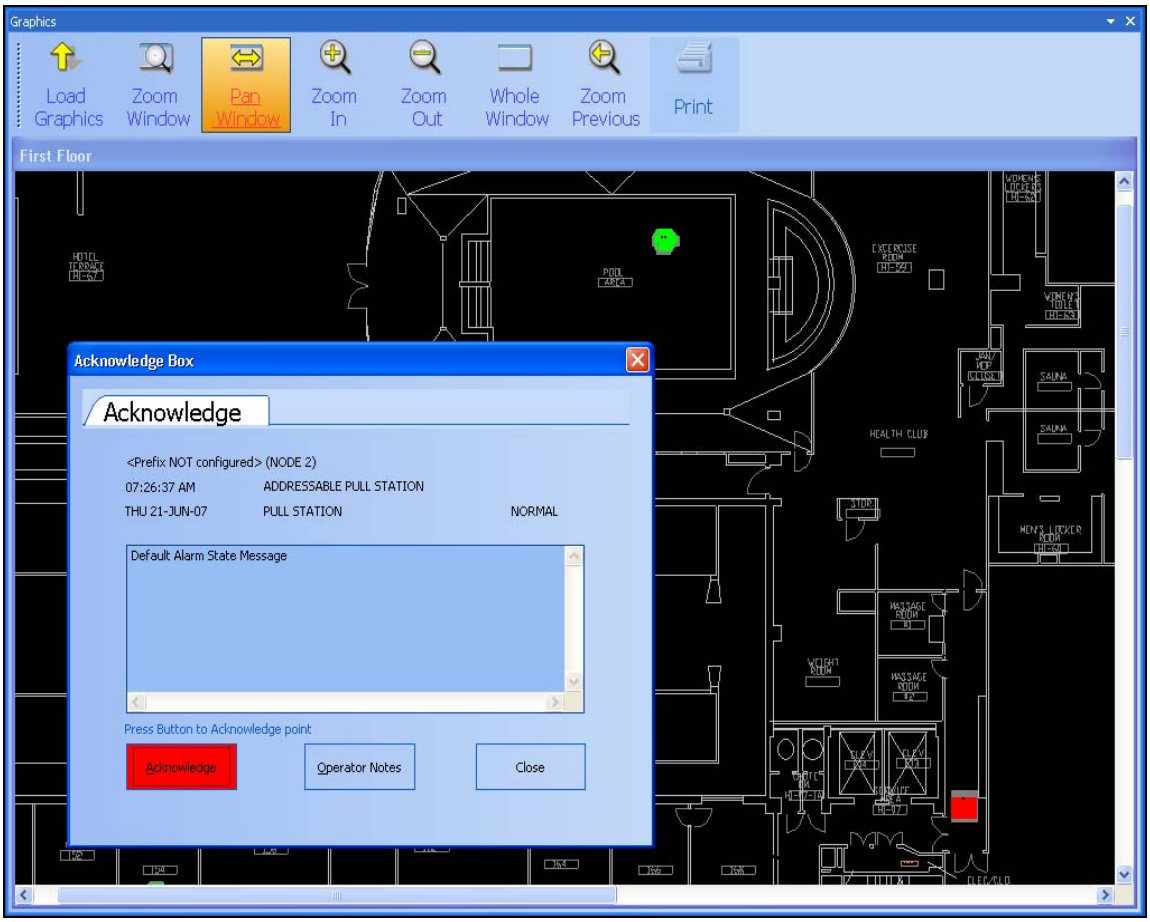


Figure 2. TrueSite Workstation Sample Graphic Screen

Network Diagnostics

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.

Revision Compatibility

Compatibility with TrueSite Workstations requires the following software versions.

Fire Alarm Network Interface (4120)	
4190 GCC/IMS/NPU	Master Version 2.07 (or later)
4100U	Master Version 11.03 (or later)
4100	Master Version 9.02 (or later)
4020	Master Version 9.02 (or later)
4010	Master Version 3.01 (or later)
4002	Network Firmware Version 3.20.92 (or later)
2120 (SLI) Interface	
2120	Master Version 5.44 (or later) Network Interface Version 3.02 (or later)

Multiple Network Connections

When extensive network expansion or interconnection of existing, separate networks is required, up to four network loops may be interfaced using the TrueSite Workstation.

Each network loop is connected to its own network interface module allowing the workstation to appear as a node in each individual loop. With the workstation as a network loop interface, information from one loop can be passed along to another loop.

With a multi-loop network connection, the TrueSite Workstation is a node member of each network loop with up to 98 additional nodes per loop. This allows up to 392 total nodes and the workstation (393 total) to be interconnected.

Multi-Loop Operation Features

Improved survivability:

- Individual network loops operate independently
- In the event of loss of one or more loops, remaining loops continue to operate

Loop independence:

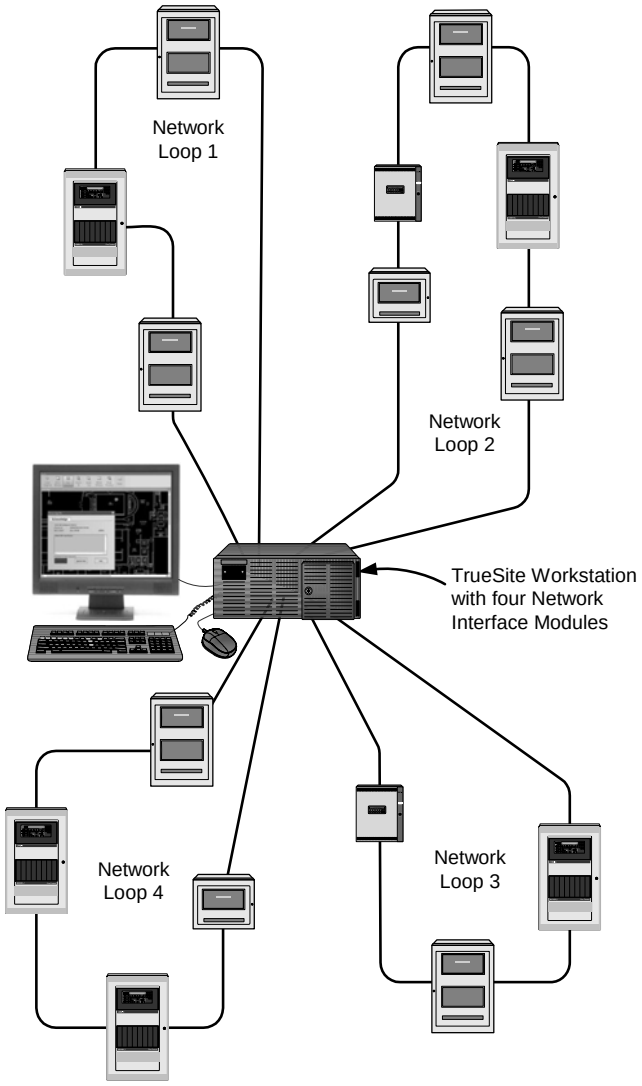
- Loops can operate at different data rates to satisfy individual conditions (9600 or 57,600 bps, selectable per loop)
- New loops can be added without impacting existing loops

Assists with phased-in system expansion:

- Each loop can be installed as a stand-alone network allowing local node programming to evolve as required
- When construction or renovation reaches completion, loops can be combined for coordinated facility protection

TrueSite Workstation hardware requirements:

- Each loop requires a dedicated Network Interface Card with two media modules
- A maximum of four Network Interface Cards are allowed per workstation



Typical Interface of Multiple Network Loops Using a TrueSite Workstation

DACR Interface

DACR Support. For control panels that are not network compatible or may be too remote for a network connection, the TrueSite Workstation can communicate to a compatible DACR (Digital Alarm Communicating Receiver) via an RS-232 port (requires application software option 4190-5051, see compatibility list below). Remote control panels equipped with DACTs communicate their local event status (or individual point status if capable) to the DACR using dial-up telephone connections. The DACR forwards the individual panel status to the workstation for information processing and history logging.

Compatible DACRs. Compatibility includes:

- Sur-Gard™ Model System III
- Model D6600 by Bosch (formerly Radionics)
- AES Intellinet 7705i Wireless-to-Internet receiver
- Sur-Gard Model MLR2-DG (legacy product)

DACR Events. The TrueSite Workstation handles DACR points as though they were network points. Graphics can be displayed and point status changes can be easily acknowledged. Point acknowledgement occurs locally on the workstation since communications between the DACT and DACR are from DACT to DACR only. Remote panels need to be Acknowledged, Silenced, or Reset at the individual panel. Point events are entered into the workstation history log as part of its 500,000 event storage capacity.

Supported DACR/DACT Formats. Compatible DACRs support standard reporting formats including: ADEMCO **CID** (Contact ID® format), **SIA Level 1**, **BFSK; and 3/1 and 4/2**. A CID account can be configured on the TrueSite Workstation to be either panel event reporting or with individual point reporting. The other formats provide panel event reporting only.

TrueSite Workstation Points for DACR Accounts. Workstation points are associated with a DACR account number. Standard event points have up to a 19 character label for each point. CID point reporting has up to a 40 character label. DACR event categories include: **Fire Alarm, Priority 2 Alarm, Supervisory Alarm**, **Trouble, Utility Status**, and **Unknown Point** (CID format only). An occurrence of any of these events will be prefixed with the 19 character account label.

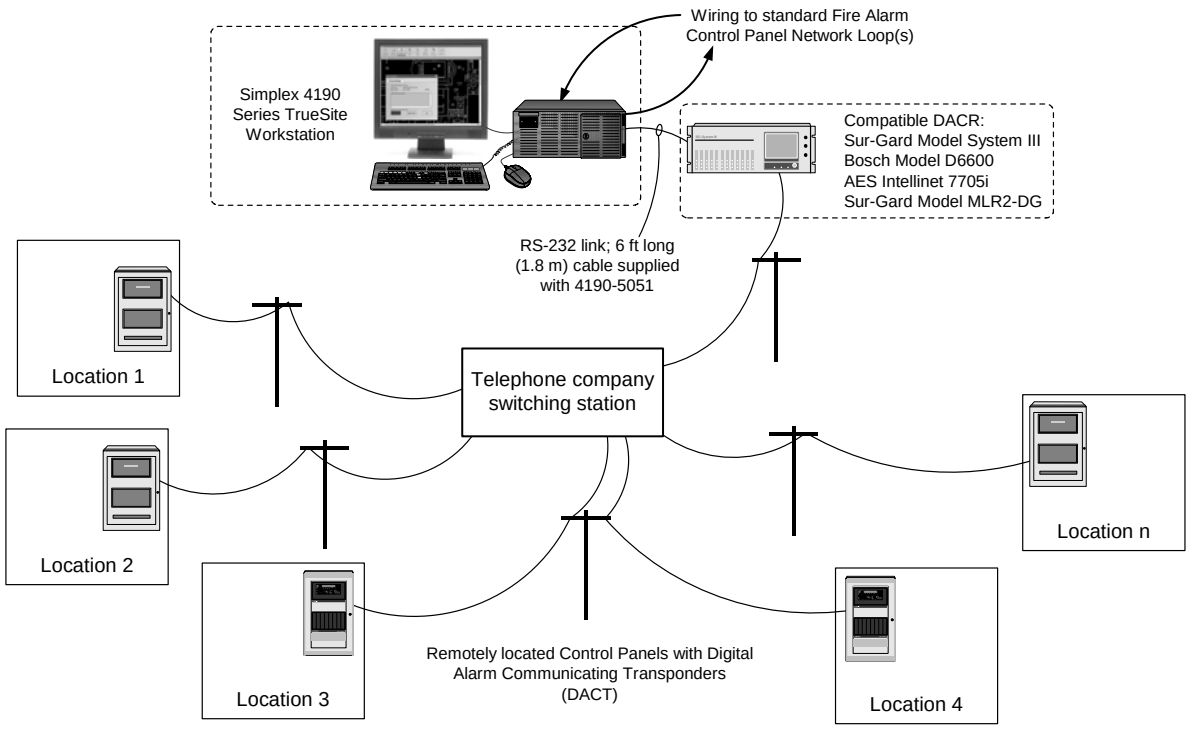
Public Points. The Workstation can be selected to make DACR associated points public to the fire alarm network for monitoring by other network nodes if required.

DACR Status Tracking. The DACR connection to the workstation is supervised with the following trouble conditions tracked by the workstation: **Communications Loss**, (between DACR and workstation), **Initialization Failed** (the workstation to DACR connection did not successfully establish), **Unknown DACR Message**, (the DACR sent a message that was not understood by the workstation), and **Unknown DACR Account** (the account information received does not correlate to an workstation point).

Supervision of DACTs. The workstation is programmed to expect and log periodic supervisory transmissions from the DACTs via the DACR. Failure to receive a supervisory transmission will cause a trouble event on the TrueSite Workstation.

Event Restoration. When the workstation receives an event restoration from the DACR, it restores that point's status record to normal. The workstation has the ability to manually restore a point to normal in the event that a restoration occurred that was not forwarded to the workstation.

DACR Interface Reference Diagram



Product Selection

Category	Model	Description		
System Type (select as required) *** NOTE:** Windows Vista Business operating system is not provided with 4190-8603 Software Only packages. For software only packages purchase operating system locally as required.	4190-8401	Standard	TrueSite Workstation, listed to UL 864 & ULC-S527 as Control Unit Accessory; Listed to UL 1610, Proprietary Security, with listed DACR; requires selection of computer, monitor, & software	Each includes Windows Vista Business CD and license
	4190-8402	Redundant		
	4190-8403	**TrueSite Workstation, UL 864 & ULC-S559 listed as Fire Proprietary Supervising Station Receiver**; includes 4190-6006 UL I/O Card and bracket for securing AC input wiring; requires selection of computer, monitor, and software; installation requires direct wired AC Power and UPS Secondary Power source per applicable local code; listed to UL 1610 with listed DACR; listed to UL 1076, Proprietary Security Service; (Note: MEA acceptance is not applicable for this product type)		
	4190-8603*	TrueSite Workstation Software only package, refer to page 7 for computer specifications reference (listings and approvals are not applicable)		
	4190-8901	Aftermarket Addition		
Computer Type (select one)	4190-7007	Desktop	Computer with keyboard and mouse; black/charcoal grey housing	
	4190-7008	Rack Mount		

LCD Color Monitor (select one min., two max.)	Model	Size (Diagonal)	Description	
Monitor Only	4190-7122	17" (432 mm)	LCD Monitor for desktop applications; black housing	
	4190-7123	19" (483 mm)		
Monitor with Touchscreen	4190-7222	17" (432 mm)	Desktop	LCD Monitor with touchscreen and built-in serial controller; black housing
	4190-7223	19" (483 mm)		
	4190-7224	19" (483 mm)	Rack Mount	

	Model	Description
Internal Hardware Options (select as required)	4190-6006	UL I/O Card; **ISA Slot card; included with 4190-8403;** order for aftermarket
	4190-6034	Quad RS-232 Serial Port Card, select when more than two serial ports are required; may be needed for 2120 SLI connections; **PCI Slot card** with pluggable terminal block output; up to 2 maximum**; one 4190-6026 suppressor is require per connection (see below)**
	4190-6038	Video Card; **PCI Slot; required for systems with two (2) monitors;** connect second monitor to card for expanded desktop (dualview) mode; connect both monitors to card for redundant (clone) mode
	4190-6005	Tape Back-Up Unit; mounts in PC; **NOTE:** Not compatible with Windows Vista Business systems, for aftermarket use with Windows 95/98, XP, and 2000 systems only
Serial Port Connectors (select as required)	4190-6002	Transient Protected Connector, **select one per connection to standard serial port**
	4190-6026	Transient Protected Connector for Quad Serial Port Card; **one required per connection**
Applications Software (select one)	4190-5050	**Not DACR compatible** — TrueSite Workstation Software, includes: License, Security Dongle, Documentation
	4190-5051	**DACR compatible**
Upgrade to DACR	4190-9807	Upgrade standard TrueSite Workstation to add DACR capability

Network Interface Modules (four (4) maximum)	Configured	Aftermarket	Description	
	4190-6032	4190-9820	Network Interface for fixed, wired in/out connections; **PCI Slot card**	
	4190-6033	4190-9821	Modular Network Interface for Media Modules (select Media Modules separately, listed below); **PCI Slot card**	
Media Modules for Modular Network Interface (select as required)	4190-6036	4190-9822	Wired Media Module	Select one per input media type and one per output media type, per Modular Network Interface; mounts onto Modular Network Interface (see above)
	4190-6037	4190-9823	Fiber Optic Media Module	

System Upgrades (select as required)	4190-9812	2.8 GHz IMS PC Memory Upgrade, for computer identification 51-TSP02-969 only; required to upgrade 512 MB PC to 1 GB for operation with Windows XP
	4190-9813	GCC or IMS to TrueSite Workstation Software Upgrade; includes: Windows Vista Business CD and license, workstation software and license, and documentation; reuses existing Security Dongle and compatible hardware
	4190-9814	Hardware upgrade to migrate from Windows XP to Windows Vista operation for computer identification 51-TSP12-969 only; includes 1 GB RAM, cable, reset switch, and mounting bracket (mounting bracket replaces existing floppy disc drive cover plate)
Programming (select one)	4190-8122	TrueSite Workstation Programming — Select Programming Items below
	4190-8923	TrueSite Workstation Aftermarket Programming
Programming Items (select items per system requirements; select quantity of items as required) **requires selection of 4190-8122 or 4190-8923**	4190-4006	AutoCAD DXF or DWG file, one floor plan (multiple floor plans require dedicated files)
	4190-4007	Custom Banner; allows custom .bmp file to be displayed in workstation top banner
	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 (1) Existing IMS Screens to TrueSite Workstation Screen
	4190-4013	One (1) Coverage Zone; order quantity as required

Please Note: Equipment may vary due to computer design changes. Contact your local Simplex product supplier for exact equipment specifications.

TrueSite Workstation Equipment Specifications

Computers and Accessories (Please note that equipment and specifications may vary due to equipment design changes)

Model	Description	Dimensions	Power Ratings
4190-7007	Desktop Computer	16-7/8" W x 7" H x 17-5/8" D (429 mm x 178 mm x 448 mm)	95-132 VAC; 180-264 VAC, auto-range; 47 to 63 Hz; 2 A @ 120 VAC (240 VA)
4190-7008	Rack Mount Computer	19" W x 7" H x 17-5/8" D (483 mm x 178 mm x 448 mm)	
NA	Rack Mount Keyboard Tray (included with computer)	19" W x 1-3/4" H x 12-3/4" D (483 mm x 44 mm x 324 mm)	NA

LCD Monitors (Please note that equipment and specifications may vary due to equipment design changes)

Model	Description	Dimensions	Power Ratings
4190-7122	17" Desktop	14-13/16" W x 15-5/16" H x 7-1/8" D (375 mm x 389 mm x 180 mm)	34 W max., 100-264 VAC, 50/60 Hz, auto-select; 0.59 A @ 120 VAC (71 VA)
4190-7222	17" Desktop with Touchscreen		
4190-7123	19" Desktop	16-1/2" W x 16-13/16" H x 7-7/8" D (418 mm x 428 mm x 200 mm)	40 W max., 100-264 VAC, 50/60 Hz, auto-select; 0.8 A @ 120 VAC (96 VA)
4190-7223	19" Desktop with Touchscreen		
4190-7224	19" Rack Mount with Touchscreen	19" W x 17-1/2" H x 2-7/16" D (483 mm x 445 mm x 71 mm)	

Computer Minimum Specifications Reference*

Enclosure*	Passive backplane with: 7 PCI slots, 2 ISA slots, and 1 CPU slot; security features: key lock reset switch; fan monitor card; locked door protecting access to the floppy and CD R/W drives
Computer*	Microsoft Windows Vista or Windows XP compatible, 2.8 GHz minimum CPU with: 2 GB RAM, 2 Serial ports, 1 Parallel port, 2 USB ports, 1 PS/2 mouse port, 1 PS2 mouse & keyboard adapter cable; SVGA video output with 16 MB VRAM, CD R/W, 101 key keyboard, 1.44 MB floppy drive (optional), 40 GB minimum hard drive; two button PS/2 mouse with scroll wheel

*** PLEASE NOTE:** Simplex 4190 Series computers are Agency listed for use with TrueSite Workstation software. For applications where Agency listings are not required, TrueSite Workstation software should be compatible with most computers meeting the stated minimum specifications. However, due to computer manufacturers potentially using unique and/or proprietary drivers, hardware, or other software not tested with TrueSite Workstation software, there may be incompatibilities. If other computers are used, proper operation with TrueSite Workstation software may require technical adjustments by a qualified computer technician and would be the sole responsibility of the computer supplier and computer manufacturer.

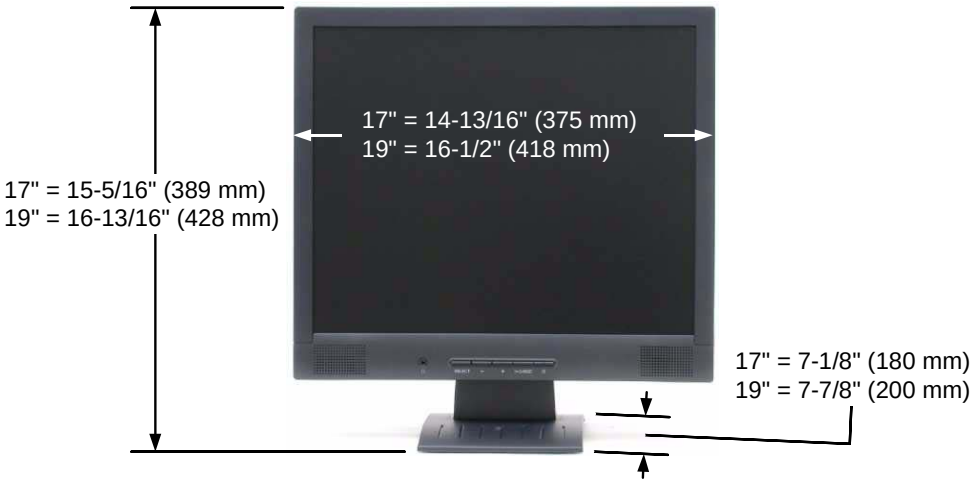
Computer Port Reference

RS-232 Serial Ports	Two standard, up to 10 total with optional 4190-9824 Quad Serial Port Card
Parallel Port	One available
Printable Information	Historical log reports, TrueAlarm Service Reports, System Activity Reports, and screen captures configurable as negative images to reverse black backgrounds
Automatic Printer Selection	Information can be routed (vectored) by type
Printer Compatibility	UL listed printer 4190-9013 is recommended (see data sheet S4190-0011); other serial or parallel port printers per Microsoft Windows Vista operating system compatibility
USB Serial Port Printers	USB connected printers will support graphics and Print Screen command (not report or event printing)

Environmental Specifications

Operating Temperature	32° to 120° F (0° to 49° C)
Operating Humidity	up to 93% RH, non-condensing, at 90° F (32° C)

LCD Monitor Appearance Reference



Serial Line Interface (SLI)

Serial Line Interface (SLI) connections to the TrueSite Workstation allow existing 2120 Multiplex systems to interface with network products. The operator conveniences of the TrueSite Workstation are available for monitoring the status of the 2120 Multiplex systems as well as allowing system expansion with networked fire alarm control panels.

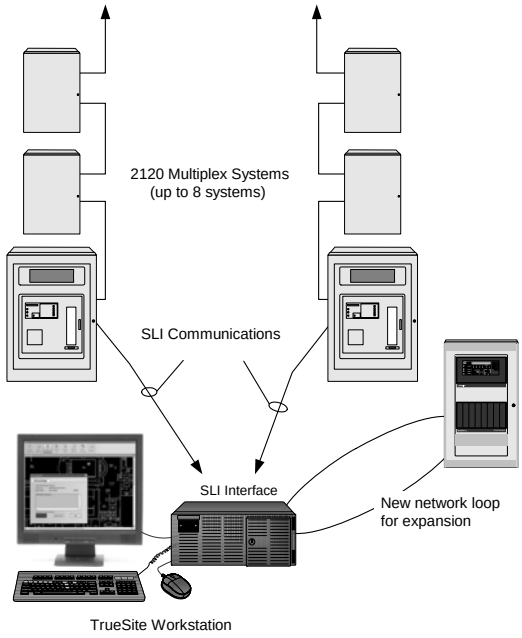
Hardware Requirements:

1. Each 2120 requires a dedicated RS-232 port in its CPU, configured for "Computer" interface, to be connected to a TrueSite Workstation serial port. Multiple 2120 connections may require the 4190-6034 Quad Serial Port Card, refer to information on page 6.
2. Disk copy of SLI "dump" file for each 2120 Multiplex System's existing point data must be downloaded using service software.
3. Each 2120 connection requires transient protection, refer to details on page 6.

Software Requirements:

1. All connected 4100/4120 network nodes require revision 8.03 or higher software.
2. 2120 CPU software must be revision 5.44 or higher.
3. Network Interface firmware must be 3.02 or higher.

2120 BMUX (CPU) Upgrade Equipment. Please refer to data sheet S4100-0048 for information on the 4100-6065 Transponder Interface Module that upgrades 2120 Transponders for direct communication with 4100U panels.



Serial Line Interface Connections

Hardware Reference with 19" Monitor