AUTOCALL

*UL, ULC Listed**

TrueAlarm Fire Alarm Systems

Fire Alarm Network Annunciators TrueSite Workstations; Version 4.02

Features

- **Autocall fire alarm network connected** graphical interface control
- **Available TCP/IP, LAN/WAN connections**; up to 20 Remote Clients can be connected to the server for multiple remote users; with dedicated and listed Fire Alarm LAN equipment, listed Remote Clients can have control access
- **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 100,000 points.
- **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 4 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
- **Captive or Non-Captive modes** support dedicated workstation operation (captive) or workstation operation with other Windows applications (word processing, spreadsheet, etc.) where workstation activity takes precedence (non-captive)
- **Extensive historical logging**; up to 500,000 events with operator notations; information is spreadsheet and database compatible for report customization
- **Optional interface to Digital Alarm Communicator Receiver** (DACR) integrates multiple systems onto a single workstation*
- **Multiple password** controlled operator levels with selectable feature access
- **3rd Party Interface** open-architecture solution provides enhanced information access for advanced users
- **Available optional connections** for printers or other compatible systems
- **Operating Systems**; Server and clients compatible with Windows 7 & 10 Professional or Enterprise. Clients also compatible with Windows 7 Home Premium and Windows 10 Home (32-bit and 64-bit for all options)
- **TrueSite Workstation Mobile Client** allows compatible iOS and Android devices to access system information
- **Export to XML** feature allows TrueSite Workstation data to be easily exported for report generation and customization
- **Test Mode** allows unobtrusive testing of selective devices without nuisance interruptions at the operator workstation
- **Password Security** supports 8 to 16 alphanumeric passwords with configurable lockout for failed attempts
- **Operator Notes** allows an operator to log notes associated with individual events for historical records and retrieval
- **DACR Account Filter** can filter historical log reports easily

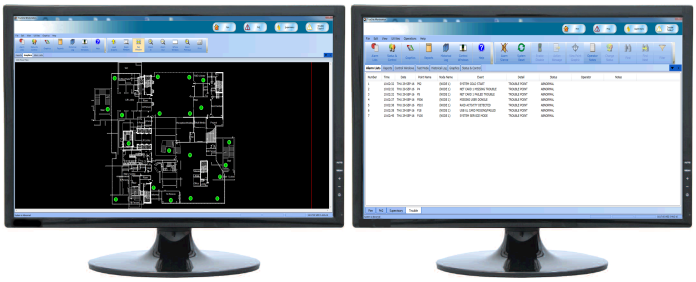


Figure 1: TrueSite Workstations can support Multiple Monitors (touchscreen monitors with expanded desktop shown)

- **Web Browser Command Link** enables the ability to easily call up an external web page or link (web-cam, etc.) with a single command button on a graphic screen
- **RAID 1 Support** provides a real-time "mirror" image on a secondary hard drive for enhanced life-safety workstation survivability; operation will automatically transition to the alternate drive on a drive failure without loss of operation. RAID support is available to systems that do not use the Backup Utility.
- **Backup Utility** can be configured to automatically backup specified directories, including TSW job data, to the secondary hard drive. The Backup Utility is available to systems that do not use RAID.
- **Vector information to supervised Remote Clients**; select by point, event category, panel, or custom list
- **Email generation** is available to send updates to individuals or to distribution lists with selectable content
- **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

Agency listings*:

- UL 864 as Control Unit Annunciator
- UL 864 for Fire Proprietary Supervising Station
- UL 864 UUKL as Firefighter Smoke Control Station
- UL 1076 for Proprietary Security
- UL 1610 as Central Station Burglar Alarm Control Unit
- UL 2572, Mass Notification Systems, as Central Control Station (PGWM)

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
- Connect to up to seven (7) separate network loops
- 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 report information, and print graphic screens
- Compatible with IMS (Information Management Systems) and GCC (Graphic Command Center) on the same fire alarm network

* Refer to Product Selection tables for specific product listing details. Additional listings may be applicable; contact your local product supplier for the latest status.

Selectable computer and monitor options:

- Computers are available as desktop or rack mount with mouse operation and/or touchscreen operation providing convenient user interface
- Desktop LCD widescreen, high resolution LED backlit monitors are 22 inch class, 21.5 inch (546 mm) diagonal, provide 1920 x 1080 resolution, and are available with or without touchscreen
- Wall mount LCD widescreen, high resolution monitors are 42 inch (1067 mm) diagonal, provide 1920 x 1200 resolution, and are available with or without touchscreen
- Rack mount LCD high resolution monitors are 19 inch class 18.5" (470 mm) diagonal with touchscreen and provide 1366 x 768 resolution; **Note:** Refer to TrueSite Workstation Equipment Specifications for important monitor mounting details

Description

Network Annunciation

TrueSite Workstations provide annunciation, status display, and control for Autocall 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.

Remote Clients

For remote viewing of TrueSite Workstation Server information, Remote Clients are available and connected using TCP/IP LAN/WAN Ethernet communications. Remote Clients can be annunciation only, or capable of system control when configured with Agency Listed hardware.

DACR Compatible

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

Product Image Reference

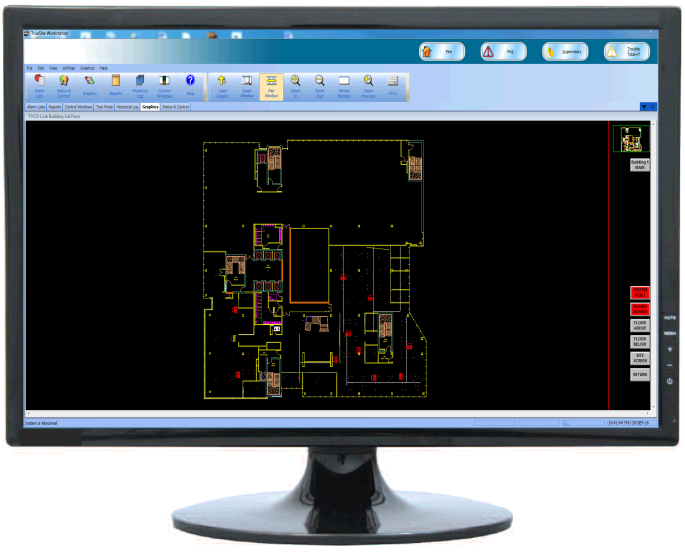


Figure 2: 21.5" Desktop Monitor

Figure 3: 42" Wall Mount Monitor

Figure 4: Desktop PC

Figure 5: Rackmount PC and Monitor

TrueSite Workstation Operation

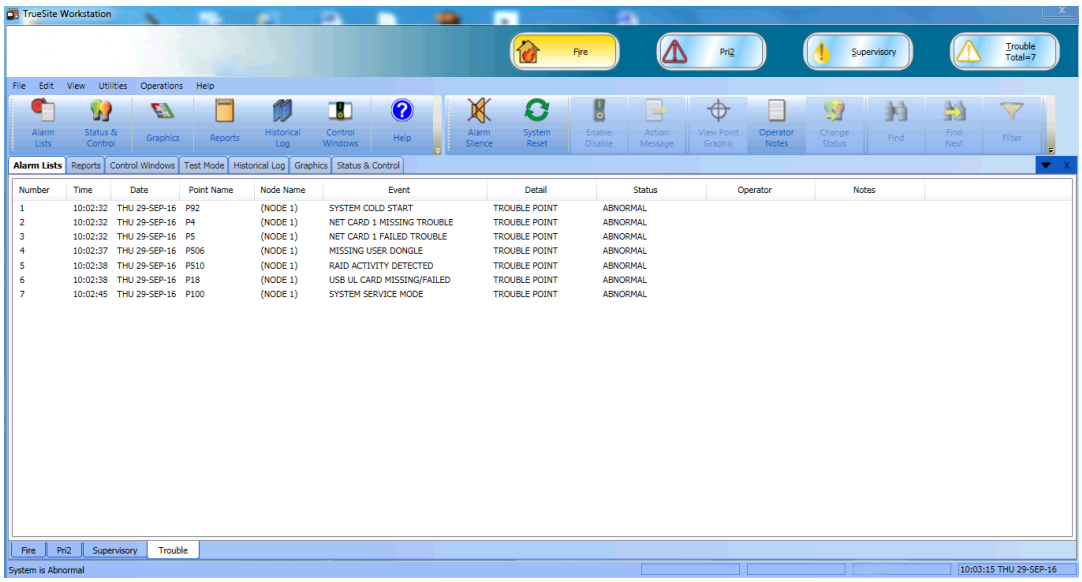


Figure 6: TrueSite Workstation Sample Alarm Lists Screen

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 6, Fire, Priority 2, Supervisory, and Trouble buttons are shown with an active Trouble indicated.

Sample Screens

Figure 6 is representative of historical log screen detail. is representative of a system graphic screen with icons representing the devices of interest. 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 workstation 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 6 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 (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.

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.

Password Control

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 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 graphics portion of the screen in Figure 7 is shown as a main screen but could be set to float and be moved to another monitor if desired. 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 coverage zones can be added with selectable area and zoom level. A fixed area site plan (key plan) with action buttons and screen locator can be added as shown below. Pan and zoom are tracked by a green rectangle in the key plan.

Custom Banner and Main Screen Background

The banner area shown with a Autocall logo in Figure 1 can be customized (bitmap area is 2250 x 68 pixels). The main screen background (viewable prior to login) can be customized with a bitmap of up to 1000 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

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.

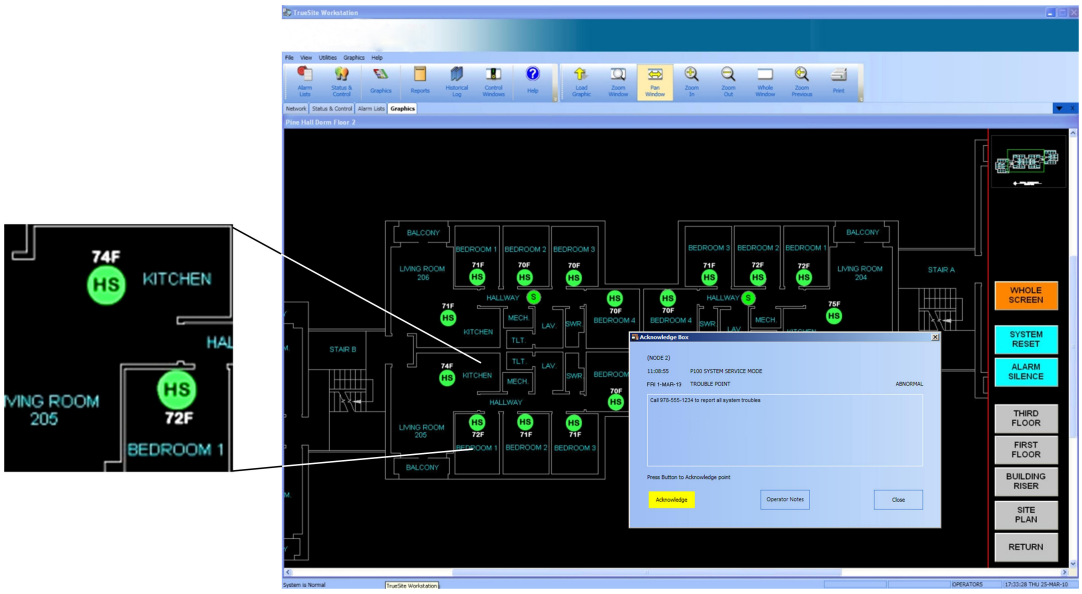


Figure 7: TrueSite Workstation Sample Graphic Screen with Detail Enlargement and Acknowledge Box

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.

Multiple Network Connections

When extensive network expansion or interconnection of existing, separate networks is required, up to seven (7) network loops may be connected to 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 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 686 total nodes and the TrueSite Workstation Server (687 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 7 Network Interface Cards are allowed per workstation

Version Compatibility

Compatibility with TrueSite Workstations requires the 4100ES, 4010ES, or other panels per the following software versions.

Note: TSW 100,000 point capacity applies to ES series panels or DACR points only. Other legacy 4000 series panels are limited to a capacity of 62,500 points on the TSW (can be mixed with ES series panels reporting above the 62,500 point range). A TSW with a 2120 SLI interface is limited to 62,500 points for the entire system (including ES series panels and DACR points). TSW 100,000 point capacity requires TSW Version 3.04 (or higher) and ES Panels at Version 3.03.04 (or higher).

Table 1: Fire Alarm Network Interface

Network Interface	Compatibility
A190 GCC/IMS/NPU	Master Version 2.07 (or later)

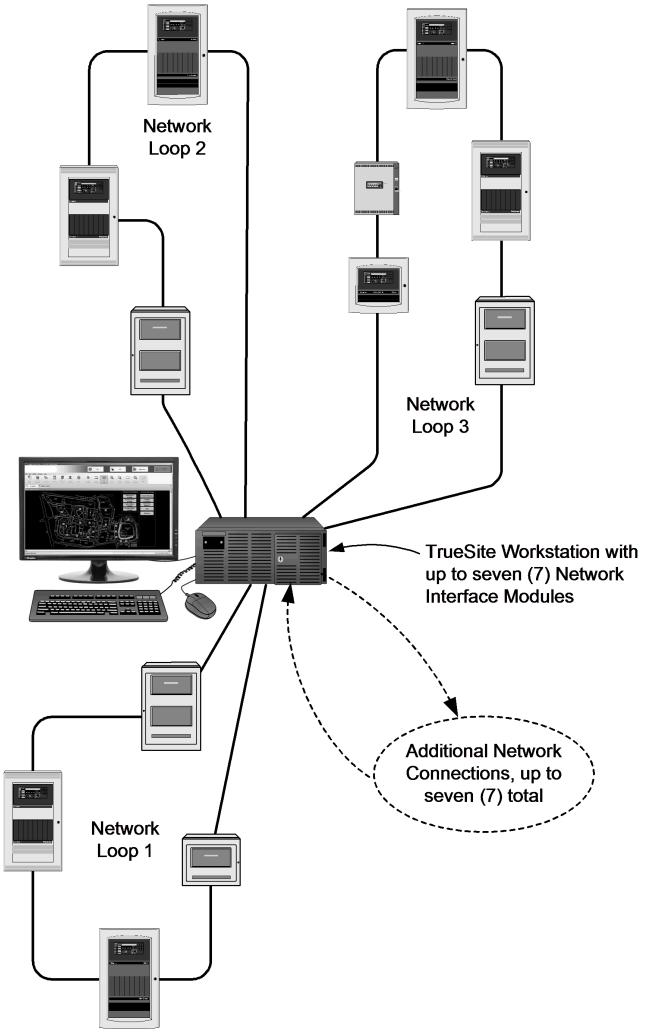


Figure 8: Typical Interface of Multiple Network Loops Using a TrueSite Workstation Server

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 Communicator Receiver) via an RS-232 port (requires DACR Interface software option A190-5060, 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 and optional TCP/IP connections. The DACR forwards the individual panel status to the workstation for information processing and history logging.

Compatible DACRs. Compatibility includes:

- Bosch Model D6600*, D6100i, and D6100Ipv6
- Sur-Gard Model System I, II, III, and IV
- AES Intellinet 7705i Wireless-to-Internet receiver
- Sur-Gard Model MLR2-DG (legacy product)

Note: * For UL 864 listed Fire Proprietary Supervising Station Operation that uses a DACR, select the Bosch D6600 with CID format and A190-8403.

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 these events will be prefixed with the 19 character account label.

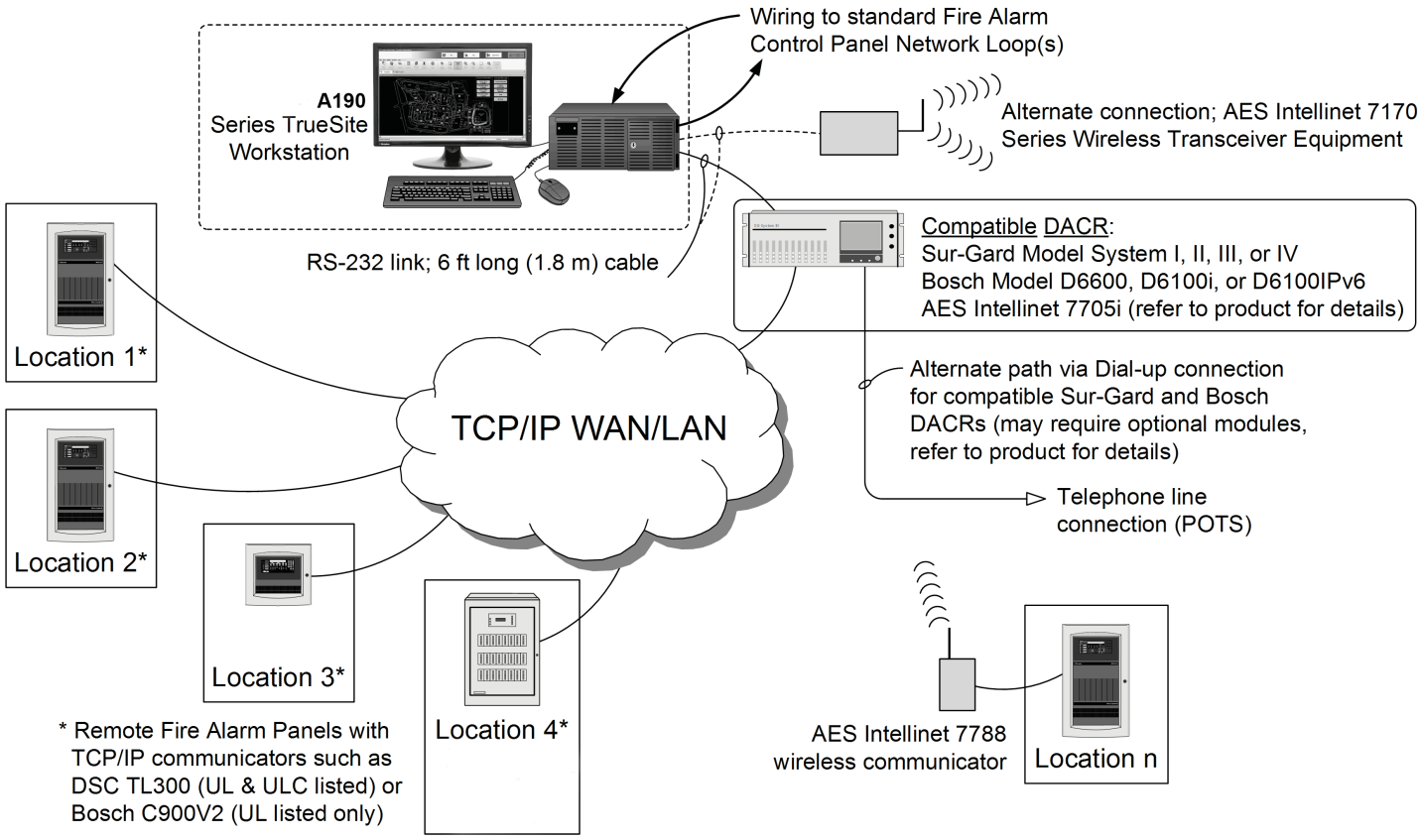
Public Points. The Workstation can be selected to make DACR associated points public to the fire alarm network for monitoring by other network nodes if required.

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

Table 2: Hardware and Software Product Selection

Category	SKU	Description
Hardware Systems (select as required) **Note:** LAN/WAN connections require use of Transient Suppressor A190-6010	A190-8401	TrueSite Workstation with control capability; requires selection of computer, monitor, and software from list below
		Listings: For use as a Workstation Annunciator under: UL 864, Fire Alarm Control; UL 1076, Proprietary Burglar Alarm; UL 1610 Central Station Burglar Alarm
	A190-8403	TrueSite Workstation with control capability; includes bracket for securing AC input wiring; requires selection of computer, monitor, and software from list below
		Listings: UL 864 as Fire Proprietary Supervising Station, requires direct wired AC Power and UPS secondary power source per applicable local code; reports and logs events; if an optional event printer is also desired, see Table 10; if using a DACR for UL 864 listing, select the Bosch D6600 with CID format. UL 864, UUKL Firefighter Smoke Control Station; UL 1076, Proprietary Burglar Alarm Multiplex Receiving Unit and UL 1610, Central Station Burglar Alarm Control Unit with listed DACR

Table 2: Hardware and Software Product Selection

Category	SKU	Description	
	A190-8410	TrueSite Workstation Remote Client; requires selection of computer, monitor, and software from list below; agency listed control capability requires connection to a dedicated Fire Alarm LAN (refer to data sheet *AC4190-0018*)	
		Listings: UL 864, Remote Client Annunciator	
Software Only and Aftermarket Additions	A190-8603	TrueSite Workstation Software Only package, refer to TrueSite Workstation Equipment Specifications (listings and approvals are not applicable); **Note:** [Windows operating system is not provided. For software only packages purchase operating system locally as required.]	
	A190-8901	Aftermarket hardware addition	
	A190-8605	Aftermarket software addition	
Computer Type (select one as required)	A190-7026 A190-7028	Desktop	Computer with Intel i7, 2.10 GHz CPU, 6MB Cache, 4GB RAM, (2) 1TB Hard Drives (minimum), USB ULIO card, DVD R/W, integral audio and amplified speakers, onboard video for up to two displays (1) SVGA and (1) DVI, (2) RS-232 Serial ports, (7) USB ports, (2) Gigabit LAN ports, Passive backplane with (8) PCI, (3) PCIe x 1 and (1) PCIe x 16 slot, USB keyboard and mouse; charcoal grey housing; Computers are pre-installed with Windows 10 Enterprise 64 bit (includes CD and license) and TrueSite Workstation software (dongle not included). A190-7026 and A190-7027 are configured with a file Backup utility and no RAID controller, A190-7028 and A190-7029 are configured with RAID 1 data mirroring and no file Backup utility. A190-7027 and A190-7029 include rackmount mounting hardware.
	A190-7027 A190-7029	Rackmount	
	A190-7030	Desktop	Order with A190-8901 only. Same PC as A190-7026 and -7028 except without operating system or TSW software. Use for replacement of existing PCs when operating system and TSW software are available and will be installed on site. Compatible with 32 or 64 bit Windows 10 and Windows 7 operating systems.
Note: Please note that equipment and specifications may vary due to equipment design changes.			

Table 3: LCD Color Monitor Product Selection

SKU		Size (Diagonal)	Description		
Monitor Only	A190-7131	21.5" (546 mm)	LCD Monitor for desktop applications		Select one minimum, four maximum, as required per computer choice; connect as SVGA or DVI, both cables are included; touchscreen models include separate serial controller cable; black/charcoal grey housings
	A190-7114	42" (1049 mm)	LCD Monitor for horizontal wall mount applications		
Monitor with Touch-screen	A190-7233	21.5" (546 mm)	Desktop	LCD Monitor with touchscreen and built-in serial controller	
	A190-7234	18.5" (470 mm)	Rack Mount		
	A190-7214	42" (1049 mm)	Wall Mount		

Table 4: Software and Feature Selection

	SKU	Description
Applications Software (select one per application)	A190-5050	TrueSite Workstation Server Software, includes: License, Security Dongle, Documentation; requires A190-8401, A190-8403, or A190-8603
	A190-5053	TrueSite Remote Client Installation CD, no operating system; requires A190-8410 or A190-8605
Server Feature Options	A190-5060	DACR Interface for a TrueSite Workstation Server
	A190-5064	3rd Party Interface Software Package; includes: (1) 3rd Party Interface Development Software; (2) A dedicated Security Certificate allowing server and client access for one 3rd Party Interface Application; and (3) A 3rd Party Feature Code allowing one 3rd Party Client connection to a single TrueSite Workstation
	A190-5065	TrueSite Workstation Feature Upgrade; includes the latest TrueSite Workstation 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
	A190-5067	TrueSite Workstation Mobile Client Feature; quantity of one (1) enables TrueSite Workstation information to be accessed from compatible mobile devices; access for mobile clients is enabled by entering an authorized feature code at the server; see data sheet *AC4190-0024* for more information
Remote Client Type Selection (Select One Per Remote Client)	A190-5061	Feature code for Remote Client with restricted features (reduced feature set)
	A190-5062	Feature code for Remote Client with password protected feature access
	A190-5066	3rd Party Interface Client for adding additional 3rd Party Client connections to an existing TrueSite Workstation 3rd Party Interface; includes a 3rd Party Client Feature Code for the selected quantity of concurrent 3rd Party Client Connections to a single TrueSite Workstation (maximum of five (5) per server) **Note:** When adding 3rd Party Interface Clients to more than one TrueSite Workstation Server, each server requires its own A190-5066 Remote Client Selection; if a new 3rd Party Interface Application is being developed, feature code A190-5064 will be required to provide a unique Security Certificate.

Table 5: Internal hardware and additional features

	SKU	Description
Internal Hardware Options (select as required)	A190-6034	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 A190-6026 suppressor is require per connection (see below)
Transient Suppressed Connectors (select as required)	A190-6002	Transient Protected Connector, select one per connection to a standard RS-232 serial port
	A190-6026	Transient Protected Connector for Quad Serial Port Card; one required per connection
	A190-6010	Transient Suppressor for LAN/WAN Connection; required for agency listing for each TrueSite Workstation Server and Remote Client LAN/WAN connection, except for server to client connections when both are in the same room; refer to diagram on page 10

Table 6: Network options

	Configured	Aftermarket	Description	
Network Interface Modules (seven (7) maximum)	A190-6061	A190-9829	Modular Network Interface (select Media Modules separately, listed below); PCI Slot card	
Media Modules for Modular Network Interface (as required)	A190-6036	A190-9822	Wired Media	Mounts on A190-6061 or A190-9829 modular network interface card (up to 2 media cards per network interface card). Maximum of 1 left port and 1 right port duplex fiber media card per modular network interface card. Field connections require left port to right port pairing. Order fiber media service kits for retrofit jobs where ST connectors are already installed (refer to data sheet AC4100-0056 for full fiber media module specifications and retrofit information)
	A190-6301	A190-9851	Left port, single-mode 4120 duplex fiber media card	
	A190-6302	A190-9852	Right port, single-mode 4120 duplex fiber media card	
	A190-6303	A190-9853	Left port, multi-mode 4120 duplex fiber media card	
	A190-6304	A190-9854	Right port, multi-mode 4120 duplex fiber media card	
Programming (select)		A190-8122	TrueSite Workstation Programming; select Programming Items below	
Programming Items (select items per system requirements; select quantity of items as required) requires selection of A190-8122		A190-4006	AutoCAD DXF or DWG file, one floor plan (multiple floor plans require dedicated files)	
		A190-4008	25 Custom Action Messages	
		A190-4009	25 Travel Screen Keys (selective zooming)	
		A190-4010	25 Status Icons	
		A190-4011	25 Control Functions; On/Off, Bypass, etc.	
		A190-4013	10 Coverage Zones; order quantity as required	
		A190-4014	One (1) Emergency Communications/Mass Notification Control Screen (see screen on page 2)	

TrueSite Workstation Equipment Specifications

Table 7: Computers and Accessories (Please note that equipment and specifications may vary due to equipment design changes)

SKU	Description	Dimensions	AC Power Input*
A190-7026 A190-7028 A190-7030	Desktop Computer	16 7⁄8" W x 7" H x 17 5⁄8" D (429 mm x 178 mm x 448 mm)	2 A @ 120 VAC, 60 Hz (240 W) Operating Range: 95-132 VAC; 180-264 VAC, auto-range; 50/60 Hz
A190-7027 A190-7029	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

Table 8: LCD Monitors (Please note that equipment and specifications may vary due to equipment design changes)

SKU	Description	Dimensions	AC Power Input*	Supplied Video Cables
A190-7131	21.5" Desktop	20 3⁄16" W x 15" H x 6 3⁄4" D (513 mm x 381 mm x 171 mm)	0.4 A @ 120 VAC, 60 Hz (48 W) Operating Range: 100-240 VAC, 50/60 Hz	(1) DVI and (1) SVGA, 6 ft (1.8 m) long
A190-7233	21.5" Desktop with Touchscreen	20 3⁄16" W x 15" H x 8 11⁄16" D (513 mm x 381 mm x 221 mm)		

Table 8: LCD Monitors (Please note that equipment and specifications may vary due to equipment design changes)

SKU	Description	Dimensions	AC Power Input*	Supplied Video Cables
A190-7234	18.5" Rack Mount with Touchscreen	17 ¾" W x 11 1⁄16" H x 2.022" D (451 mm x 281 mm x 51.4 mm) **Note:** Refer to page 12 for important monitor mounting details	1.5 A @ 120 VAC, 60 Hz Operating Range: 100-240 VAC, 50/60 Hz	
* Note: Products are Agency Listed for 120 VAC. Computers and monitors are shipped with 120 VAC cord; NEMA 5-15P plug to IEC-320 C-13 connector. For use with other voltages, locally obtain a cord in compliance with local safety standards.				

Table 9: Computer Minimum Specifications Reference**

Specification	Description
Server Enclosure**	Passive backplane with: 7 PCI slots and 1 CPU slot; security features: key lock reset switch; fan monitor card; locked door protecting access to the CD/DVD R/W drives and one front mounted USB port
Server Computer**	Compatible with Microsoft Windows 10 and Windows 7 32 and 64 bit operating systems; Intel i7 2.1 GHz CPU, or Core 2 Duo 2.1 GHz CPU, 4 GB RAM, 160 GB minimum hard drive; 2 Serial ports, 1 Parallel port, 4 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 amplified speakers, additional ports as required for custom features (e.g. USB, Serial, Parallel, etc.)
Remote Client	Remote Client specifications are similar to server except: also compatible with Microsoft Windows 10 Home and Windows 7 Home Premium operating system (32-bit or 64-bit); Core 2 Duo CPU minimum, 4 GB RAM minimum; single Gigabit LAN, 160 GB hard drive, SVGA video output with 16 MB VRAM, CD/DVD Drive, other ports as required (e.g. USB, Serial RS-232, Parallel, mouse and keyboard, etc.)
Note: ** Autocall A190 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.	

Table 10: Computer Port Reference (A190-7026, A190-7027, A190-7028, A190-7029 and A190-7030)

Port	Description
RS-232 Serial Ports	Two standard, up to 9 total
USB Serial Ports	7 total; 5 in the rear (one is used for Server Security Dongle), and 2 in the front behind the locked door
Other Ports	Two Ethernet 7029ports and one Parallel port
Event Printing *	For Agency Listed Proprietary Supervising Station operation and for other operations, if an event printer is desired, a supervised and dedicated Autocall Model A190-9013 Agency Listed dot matrix printer is recommended; connection is to USB or Serial RS-232 Port of the Server PC (see data sheet *AC4190-0011* for printer details)
Other Printing *	For report, screen, or graphics printing, a Windows compatible printer can be used. Connection can be USB, Serial RS-232, or LAN/WAN connection via Ethernet
Printable Information	Event printing (with supervised and dedicated dot matrix printer A190-9013 as explained above)
	Auto-print of auto-jump graphics; prints to Windows default printer
	Reports: Historical logs, System Activity, TrueAlarm Status, TrueAlarm Service, 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)
Note: * Parallel port printer connection is supported on 32-bit operating systems only.	

Table 11: Environmental Specifications

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

Server/Client Operation

TrueSite Workstation Computer. The TrueSite Workstation computer provides the functions of the server and the system configuration tools. To access the desired features, a system/job specific security service dongle is supplied and is required. For systems not using Remote Clients, the setup of the TrueSite Workstation PC is similar.

Remote Client. For access to TrueSite Workstation information at a remote location, a compatible computer, connected via a Local Area Network (LAN) is equipped with Remote Client software. There are two types of Remote Clients, those with a restricted feature set (not capable of control); and those with a password protected feature set (capable of control). Refer to the interconnection reference diagram below and refer to data sheet *AC4190-0018* for additional information.

Supervised or Unsupervised Remote Clients. Remote Clients can be designated as Supervised or Unsupervised. When Supervised, the connection is monitored by the TrueSite Workstation and a loss of connection is audibly reported at both ends along with a dialog screen. When Unsupervised,

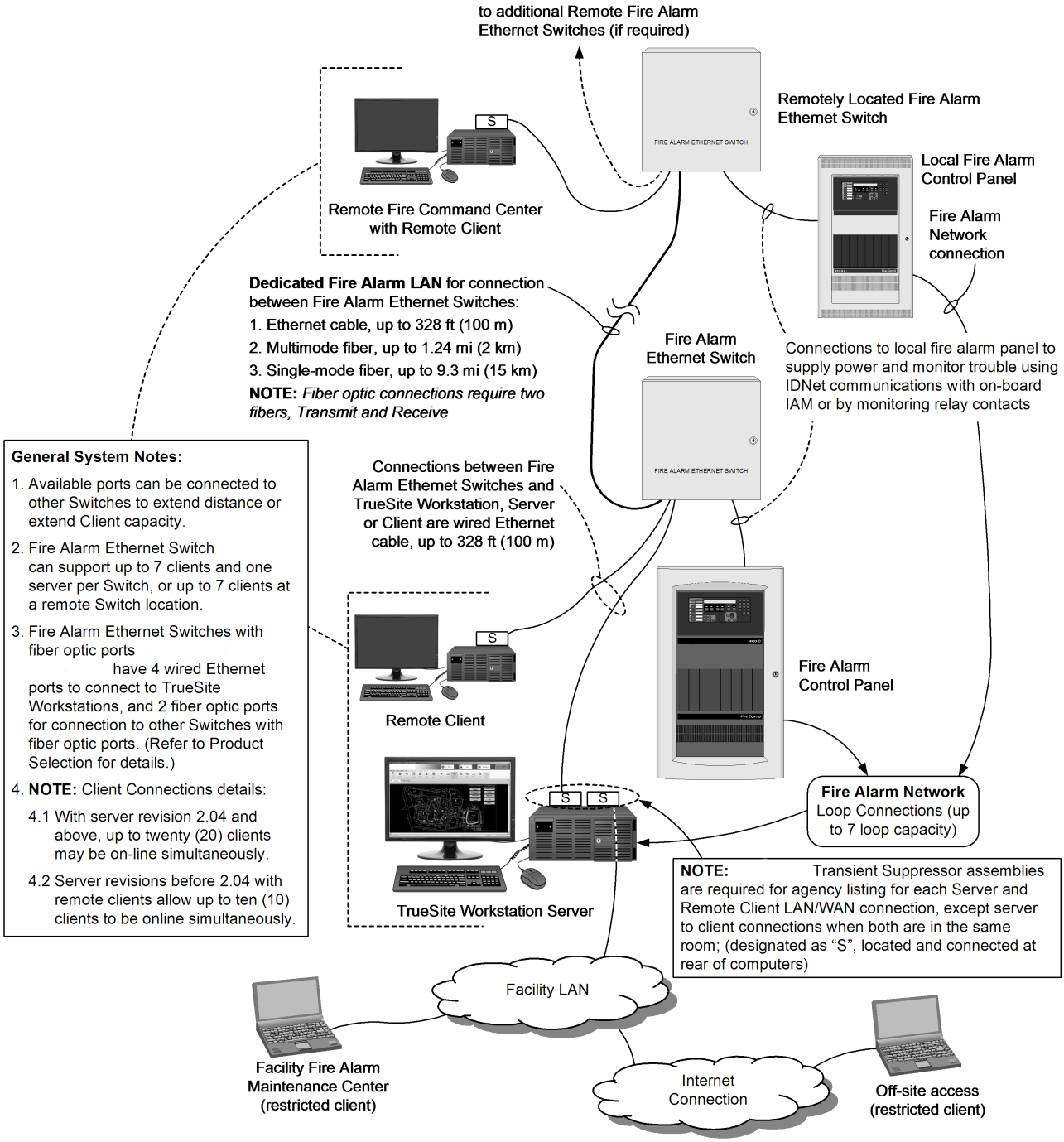
only the client end displays a trouble dialog indicating disconnection from the Server. Remote Clients may be laptop computers or other computers used for other functions and are periodically connected to query system status or create reports.

Remote Client Connections. The TrueSite workstation server supports a maximum of twenty (20) Supervised or Unsupervised Remote Clients, each capable of being on-line simultaneously.

TCP/IP Networks. The minimum recommended connection speed for TrueSite Workstation Server or Remote Client to a TCP/IP local area network is 3 Mbps.

Anti-Virus Software. When either the TrueSite Workstation Server or Remote Client computer is connected to a TCP/IP network other than a dedicated Fire Alarm Network, it is highly recommended that regularly updated anti-virus software protection be installed on each connected computer. The TrueSite Workstation has been verified as compatible with Symantec EndPoint Protection 12.1.3 and McAfee Enterprise 8.8.

Server/Client Interconnection Reference



Additional Reference

Description	Document
Installation and Checkout Instructions	579-834AC

General System Listings Reference

The following functions are Agency Listed with the computers and monitors identified in Product Selection:

- TrueSite workstation PCs, whether stand-alone or functioning as a server to Remote Clients
- Supervised Remote Clients with protected features that are connected to the server using a dedicated Fire Alarm Network
- Refer to data sheet *AC4190-0018* for details about Fire Alarm Network Ethernet Switches

Additional agency listings reference

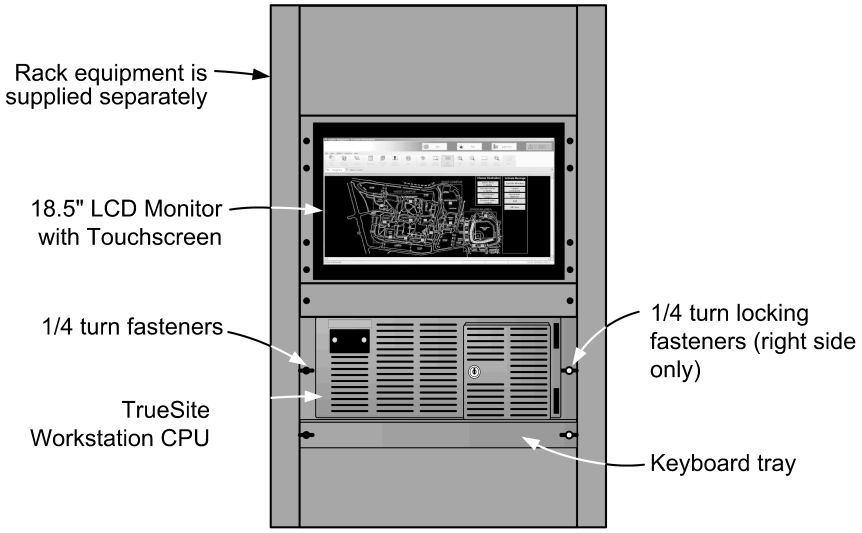
Restricted feature Remote Clients software on compatible computers (listed for standard office use) provide annunciation features only and can be connected using a facility LAN without system listing impact

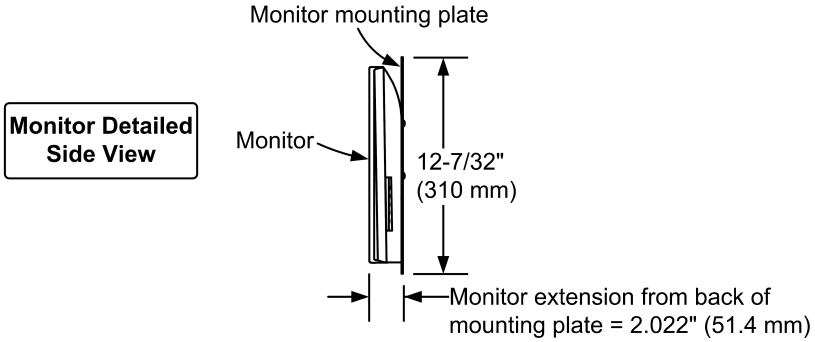
Mass Notification Systems Reference

The TrueSite Workstation operates as a UL 2572 listed Central Command Station (CCS) when configured per the following:

1. Select model A190-8401 (**Note:** Cannot be used for Supervising Station or Security Monitor Applications)
2. Provide an **audio system microphone mounted adjacent to the TrueSite Workstation**, either located within a 4100ES Fire Alarm Control Panel or Remote Annunciator Panel, or use a Remote Microphone Assembly.
3. The 4100ES microphone options are Model A100-1243 for Fire Alarm Control Panels and Model A100-1244 for Remote Annunciator Panels (refer to data sheet *AC4100-0034* for details).
4. Remote Microphone Assembly Model A4003-9803 mounts separate from the control panel (refer to data sheet *AC4100-0053* for details).
5. **Note:** At least two monitors must be connected to provide the necessary display information (see exception below). One monitor is required to display the speaker zone status and the other monitor is required to display the event screen.
6. **Exception:** If a 4100ES Network Display Unit (NDU) is mounted adjacent to the TrueSite Workstation for network audio control with microphone access, a second monitor may not be necessary if the audio control status is viewable. Review the application with the local authority having jurisdiction (AHJ).

Rack Mount Hardware Reference with 18.5" Monitor





NOTE:
The monitor mounting plate attaches to the rack mounting rail and the monitor will extend 2.022" (51.4 mm) from the front of the mounting rail. Review the specified rack enclosure to determine actual monitor extension beyond the rack frame and to ensure that a rack door (if used) has adequate clearance.

Hardware Reference with 21.5" Desktop Monitor