

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

Introduction

TrueSite Workstation's remote client capability supports connection to the network through the TrueSite Workstation server. With this server-client communication, you can remotely monitor up to 60 additional users. For supervised clients, you can grant access to the same control features as the TrueSite Workstation server. For restricted clients, you can grant view-only access remotely or through an ordinary computer network.

Server or client operation

TrueSite Workstation Computer

The TrueSite Workstation computer features the functions of the server and the system configuration tools. To access the desired features, a valid, active software license is required. For systems not using Remote Clients, the setup of the TrueSite Workstation PC is similar.

Remote Client

To access TrueSite Workstation information at a remote location you must use a compatible computer, connected to a Local Area Network (LAN), that is equipped with the Remote Client Software. There are two types of Remote Clients, those with a restricted feature set, that is not capable of control, and those with a password protected feature set, that is capable of control. Refer to [Server or client interconnection reference](#) and datasheet *Fire Alarm Network Annunciators; Fire Alarm Ethernet Switches (S4190-0018)* for additional information.

Supervised or Unsupervised Remote Clients

You can designate Remote Clients as Supervised or Unsupervised. When Supervised, the TrueSite Workstation monitors the connection and audibly reports a loss of connection at both ends along with a dialog screen. When Unsupervised, only the client end displays a trouble dialog that indicates disconnection from the Server. You can use laptop or desktop computers that you use for other functions as Remote Clients and periodically connect them to query system status or create reports.

Remote Client Connections

The TrueSite workstation server supports a maximum of 20 Supervised or Unsupervised remote clients for 4120 networks or 60 for ES Net networks, each capable of being online simultaneously. In ES Net jobs, you can configure remote clients to connect to a backup server in the event of loss of connection to the primary server, for improved network redundancy.

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, ensure regularly updated anti-virus software protection is installed on each connected computer. The TrueSite Workstation is verified as compatible with McAfee Total Protection version 16.0 R29 and Norton LifeLock 22.20.5.29.



Figure 1: Remote clients operating on a laptop and a desktop PC

Server or client interconnection reference

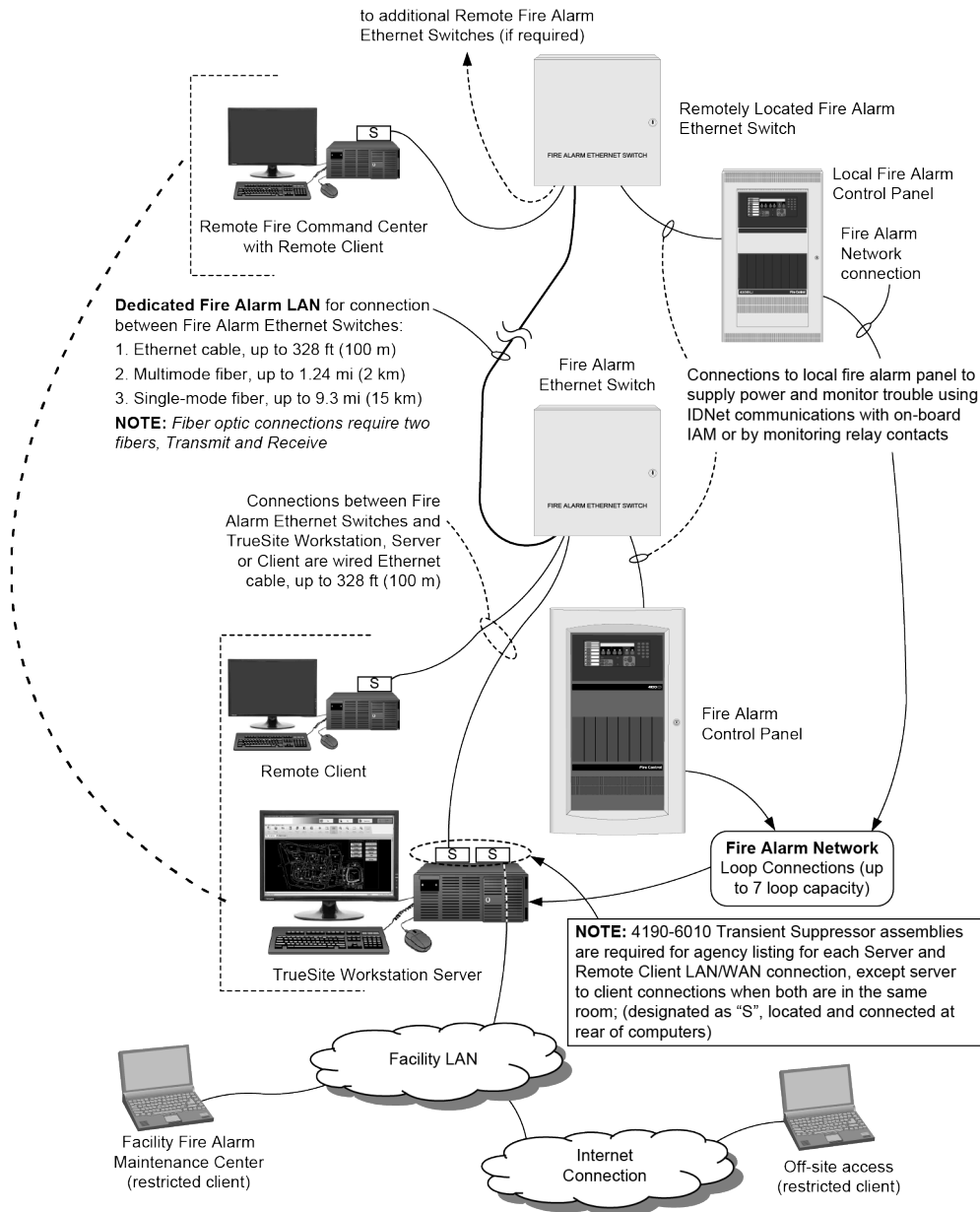


Figure 2: Example system showing server and client interconnection

See the following system notes for Figure 2:

- The TrueSite Workstation PC has two Ethernet ports. On ES Net networks, the ES Net NIC connection uses one Ethernet port. This leaves one Ethernet port available for a connection to either an agency-listed or dedicated Fire Alarm LAN or a customer's LAN, not both. Refer to *Fire Alarm Network Annunciators; Fire Alarm Ethernet Switches (S4190-0018)* for additional information on Fire alarm network Ethernet switches.
- To extend client capacity to greater distances, connect ports to other switches.
- The fire alarm Ethernet switch, 4190-6050, supports up to seven clients and one server for each switch, or up to seven clients at a remote switch location.
- Fire alarm Ethernet switches with fiber optic ports, such as 4190-6054 and 4190-6055, feature four wired Ethernet ports that you can use to connect to TrueSite Workstations. Use the two fiber optic ports to connect to the fibre optic ports on other switches.
- For server revision 5.04 and above, you can configure up to 20 remote clients on a 4120 network, or 60 remote clients on an ES Net network, for simultaneous online operation. For server revisions before 5.04, you can configure a maximum of 20 remote clients for simultaneous online operation.

Product selection

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

Table 1: Hardware product selection

Model	Description	Listings	
4190-8410	TrueSite Workstation Remote Client Agency-listed control capability requires supervision and connection to a dedicated Fire Alarm LAN. Note: The TrueSite Workstation PC has two Ethernet ports. On ES Net networks, the ES Net NIC connection uses one Ethernet port. This leaves one Ethernet port available for a connection to either an agency-listed, dedicated, Fire Alarm LAN or a customer's LAN, but not both. Refer to <i>Fire Alarm Network Annunciators; Fire Alarm Ethernet Switches (S4190-0018)</i> for additional information on fire alarm network Ethernet switches.	Yes	Yes
	Listings For use as an Annunciator under UL 864 and ULC-S527 Control Units and Accessories for Fire Alarm Systems.		

Notes:

- Requires a selection of computer, monitor, and software from the following tables.
- LAN/WAN connections require use of Transient Suppressor 4190-6010, see Table 6 for details.
- A UL-1481 Listed Uninterruptible Power Supply (UPS) is required for secondary power in accordance with UL and ULC requirements.
- ULC listing also requires use of 4190-6058 Mechanical Protection Kit, ordered separately.

Table 2: Software only and aftermarket additions product selection

Model	Description
4190-8901	Aftermarket hardware addition
4190-8605	Aftermarket software addition

Table 3: Computer product selection

Category	Model	Description		Listings
Computer type Select one as required	4190-7026	Desktop	Computer with Intel® i7, 2.4 GHz CPU, 6MB Cache, 8GB RAM, a minimum of two 1TB Hard Drives, USB ULIO card, DVD R/W, integral audio and amplified speakers, onboard video for up to three displays: one SVGA and two DVI, two RS-232 Serial ports, seven USB ports, two Gigabit LAN ports, passive backplane with eight PCI, three PCIe x 1 and one PCIe x 16 slot, USB keyboard and mouse, charcoal grey housing. Computers come pre-installed with Windows® 10 Enterprise 64 bit, including software package and license, and TrueSite Workstation software. 4190-7026 is configured with a file Backup utility and no RAID controller, 4190-7028 is configured with RAID 1 data mirroring and no file Backup utility.	
	4190-7028			
Mechanical protection, conduit entry kit	4190-6058	Kit includes provisions for conduit connections and compliance with ULC mechanical protection requirements on all ULC listed TSW Desktop PCs. The kit includes the following items: a rear bracket enclosure with conduit knockouts for all field wiring, rear access plates for routing the USB mouse, USB keyboard, and monitor connections, and a top access plate for access to all rear PC connections, six USB retaining clips to secure USB device connections to the rear of the PC.		
USB Ethernet Adapter	4190-6059	USB 3.0 to Gigabit Ethernet NIC Network Adapter. With this, you can connect an additional RJ45 Ethernet port that uses available USB ports on TSW Desktop PCs to an ES Net NIC card or to a building network.		
Fire alarm Ethernet switch	4190-6050	Fire alarm Ethernet switch, 24 VDC, red cabinet, with Earth Detection on wired connections UL 864 and ULC S527		
	4190-6054	Note: Each Server and Client LAN connection requires a 4190-6010 Transient Suppressor, except for server to client connections when both are in the same room. See Table 6 for suppressor details. Use a listed fire alarm power supply to provide power to the Ethernet switch, refer to <i>Fire Alarm Network Annunciators; Fire Alarm Ethernet Switches (S4190-0018)</i> for more information.		
	4190-6055			
	4190-6054	Four wired Ethernet connections and two single-mode fiber optic connections		
	4190-6055	Four wired Ethernet connections and two Multimode fiber optic connections		

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

Table 4: LCD color monitor product selection

Model	Size (Diagonal)	Description	
Monitor only	4190-7114	42 in. (1067 mm)	LCD monitor for horizontal wall mount applications
	4190-7132	24 in. (610 mm)	LCD monitor for desktop applications
Monitor with	4190-7214	42 in. (1049 mm)	Wall mount
Touch-screen	4190-7234	18.5 in. (470 mm)	Rack mount
	4190-7235	24 in. (610 mm)	Desktop

Table 5: Software and feature selection

Option	Model	Description
Applications software, select one for each application	4190-5053	TrueSite Remote Client Installation software package, no operating system. Requires 4190-8410 or 4190-8605.
Remote Client type selection, select one for each remote client	4190-5061	Feature code for Remote Client with restricted features, reduced feature set
	4190-5062	Feature code for Remote Client with password protected feature access

Table 6: Internal hardware and additional features

Option	Model	Description
Internal hardware options, select as required	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 two maximum. One 4190-6026 suppressor is required for each connection, see details in the following rows.
Internal hardware video card options, select as required	4190-6049	Dual video card for 64-bit operating system, PCIe x 16 slot, two DVI outputs. Select one to support four monitors. Note: Support for up to three monitors is standard. Use onboard video for the first three monitors, use the optional 4190-6049 video card for four monitors.
Transient suppressed connectors, select as required	4190-6002	Transient Protected Connector, select one for each connection to a standard RS-232 serial port.
	4190-6026	Transient Protected Connector for Quad Serial Port Card, one required for each connection.
	4190-6010	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 Server or client interconnection reference .

Table 7: Programming options

Option	Model	Description
Programming, select	4190-8122	TrueSite Workstation Programming, select Programming Items in the following rows
Programming Items.	4190-4006	AutoCAD DXF or DWG file, one floor plan. Multiple floor plans require dedicated files
Select items in accordance with system requirements, select quantity of items as required. Requires selection of 4190-8122	4190-4008	25 Custom Action Messages
	4190-4009	25 Travel Screen Keys, selective zooming
	4190-4010	25 Status Icons
	4190-4011	25 Control Functions. For example, On/Off, and Bypass
	4190-4012	Convert one Existing IMS Screens to TrueSite Workstation Screen
	4190-4013	10 Coverage Zones, order quantity as required
	4190-4014	One Emergency Communications or Mass Notification Control Screen

Additional reference

Table 8: Additional network product reference

Description	Document
4120 Network Products and Specifications	<i>S4100-0056</i>
ES Net Network Products and Specifications	<i>S4100-0076</i>
4100ES Basic Panels with ES-PS Power Supplies	<i>S4100-1031</i>
Fire Alarm Ethernet Switches for TrueSite Workstation	<i>S4190-0018</i>
TrueSite Incident Commander	<i>S4190-0020</i>
Truesite Mobile Client	<i>S4190-0024</i>