Features

Allows normal building video message displays to be controlled by a Simplex® 4100ES fire alarm control panel:
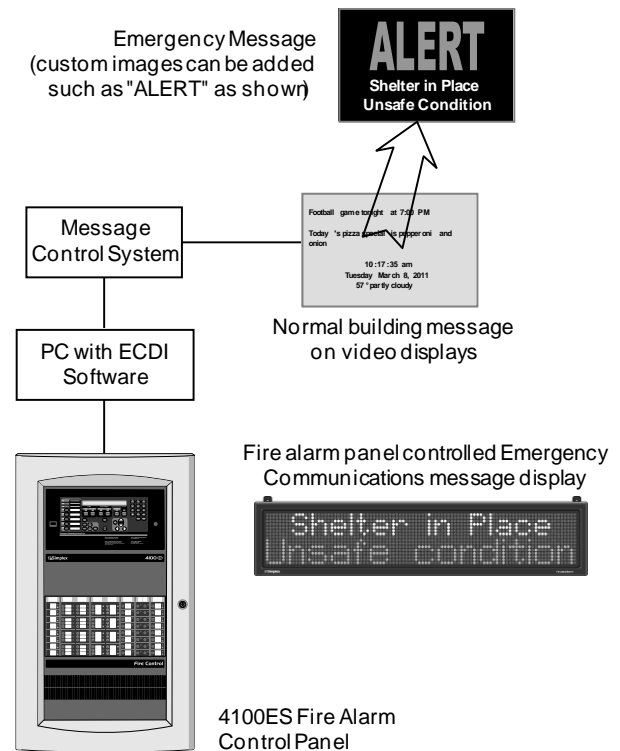
- When an emergency condition is reported to the 4100ES fire alarm control panel, normal building video communications messages are switched to provide emergency communications

- ECDI Software resides in a customer supplied computer and monitors the computer port protocol output from the 4100ES Fire Alarm Control Panel

- Upon receipt of an emergency condition, the information provided to the ECDI computer allows it to abort normal building messages and switch to the desired emergency message

- Standard messages are listed on page 4; custom messages and added graphics can be easily prepared

- Operation is available for either RSS (Really Simple Syndication) compatible systems, or for VGA (Video Graphics Array) display, wired communications; both may also be used depending on the connected equipment

- ECDI Software is compatible with Microsoft® Windows® XP, Vista®, or Windows 7 operating systems; computers require two available serial ports

- Refer to diagrams on pages 2 and 3 for additional information

RSS message control:

- For building display systems capable of monitoring RSS feeds, the ECDI computer will update the RSS feed with the appropriate predetermined message when an emergency occurs

- RSS feed can be hard wired, or via LAN/WAN connections (see detailed illustration on page 2)

- RSS feed applications can coexist with the TrueSite™ workstation application on the TrueSite workstation PC provided there is an available RS-232 port to connect to the 4100ES computer port

- RSS feed reception requires an internet browser with functionality equal to Internet Explorer 7 or above

- RSS building display systems may also be compatible with power over Ethernet (POE) message display products

VGA message control:

- Normal messages connect directly to the building displays with their communications path routed through a dual input, single output VGA Switch (see page 3 for details)

- When an emergency is detected at the 4100ES control panel, the ECDI Software switches the VGA Switch output to the pre-determined emergency message path

Control Building Communications Video Displays to Deliver Custom Emergency Communications Messages
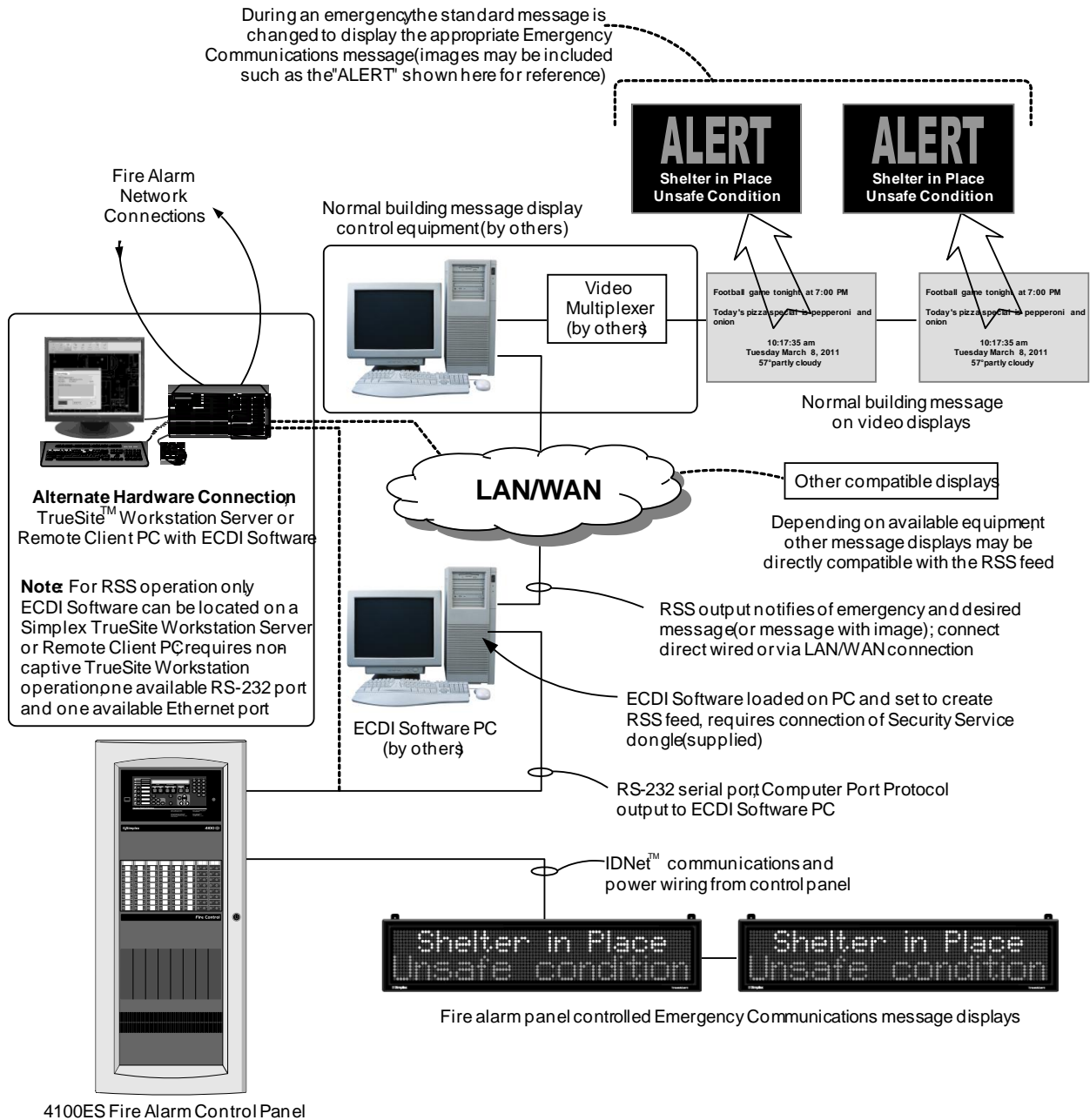
Description

Fire Alarm Systems. Fire alarm systems normally communicate information to their connected fire alarm notification appliances to advise building occupants of emergency conditions and of the directed response. However, many buildings also have non-emergency, non-fire alarm display equipment in place to advise of normal conditions such as daily events, weather, announcing special visitors, or maybe just the daily menu.

Using the Fire Alarm System to Control other Systems. ECDI Software allows the information displays used for normal building communications to distribute emergency information under the control of a 4100ES fire alarm control panel. The software resides on a monitoring computer and controls the building information equipment by either sending RSS communications, or by providing VGA switch control, or for compatible systems, both may be supplied.
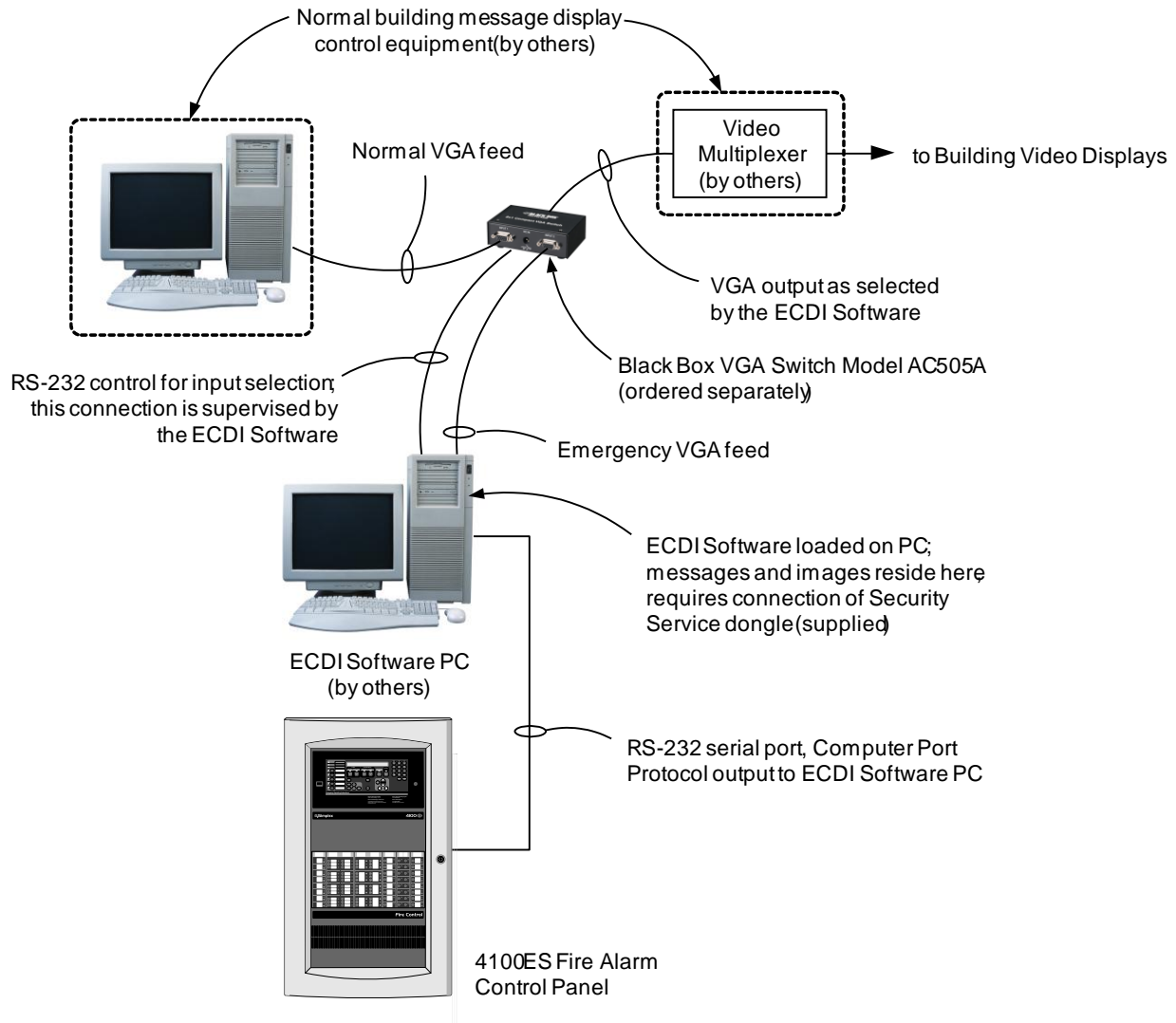
Applications Note. ECDI Software provides a variety of system connection options. Contact your local Simplex product representative to have your specific building requirements reviewed by our Solutions team.

– This product was not agency listed as of document revision date.

During an emergency, the standard message is changed to display the appropriate Emergency Communications message (images may be included such as the "ALERT" shown here for reference)

Fire Alarm Network Connections

Normal building message display control equipment (by others)

ALERT
Shelter in Place
Unsafe Condition

ALERT
Shelter in Place
Unsafe Condition

Football game tonight at 7:00 PM

Today's pizza special is pepperoni and onion

10:17:35 am
Tuesday March 8, 2011
57°partly cloudy

Football game tonight at 7:00 PM

Today's pizza special is pepperoni and onion

10:17:35 am
Tuesday March 8, 2011
57°partly cloudy

Video Multiplexer (by others)

Normal building message on video displays

Alternate Hardware Connection
TrueSite™ Workstation Server or Remote Client PC with ECDI Software

Note: For RSS operation only, ECDI Software can be located on a Simplex TrueSite Workstation Server or Remote Client PC, requires non captive TrueSite Workstation operation, one available RS-232 port and one available Ethernet port

LAN/WAN

Other compatible displays

Depending on available equipment, other message displays may be directly compatible with the RSS feed

RSS output notifies of emergency and desired message (or message with image); connect direct wired or via LAN/WAN connection

ECDI Software loaded on PC and set to create RSS feed, requires connection of Security Service dongle (supplied)

ECDI Software PC (by others)

RS-232 serial port, Computer Port Protocol output to ECDI Software PC

IDNet™ communications and power wiring from control panel

Shelter in Place
Unsafe condition

Shelter in Place
Unsafe condition

Fire alarm panel controlled Emergency Communications message displays

4100ES Fire Alarm Control Panel

ECDI Software Video Switch Connection Reference

Normal building message display control equipment (by others)

Video Multiplexer (by others)

to Building Video Displays

Normal VGA feed

VGA output as selected by the ECDI Software

Black Box VGA Switch Model AC505A (ordered separately)

RS-232 control for input selection; this connection is supervised by the ECDI Software

Emergency VGA feed

ECDI Software loaded on PC; messages and images reside here; requires connection of Security Service dongle (supplied)

ECDI Software PC (by others)

RS-232 serial port, Computer Port Protocol output to ECDI Software PC

4100ES Fire Alarm Control Panel

Black Box VGA Switch Reference

Manufacturer	Black Box® Network Services
Model Number	AC505A
For additional information	www.blackbox.com

Specification Summary

Size	1-1/4" H x 4-1/4" W x 2-1/2" D (32 mm x 108 mm x 64 mm)	
Power Requirements	120 VAC, 60 Hz to power converter (supplied)	
	Converter output is 6 VDC, 300 mA (center positive) to VGA switch	
Resolution	1600 x 1200 maximum	
Video Level	0 to 0.7 V p-p	
Video Bandwidth	250 MHz	
Video and Control Connections	Video input: (2) HD15F	Video cable is by others per system distance requirements
	Video output: (1) HD15F	
	Serial input: (1) 3.5 mm F (RS-232), cable included	
Distance	150" (45.7 m) maximum at XGA resolution	

S4190-0019-1

ECDI Software Pre-Programmed Messages

Message Number	Refresh Rate	Message Title	Displayed Message (top line is yellow, bottom is scrolling red except as noted)	
1	20 sec	Bomb Threat	Top Line, Fixed	**Bomb Threat**
			Bottom Line, Continuous Scroll	An emergency has been reported in the building. Please proceed to the nearest exit and vacate the building.
2	15 sec	Hostile Intruder	Top Line, Fixed	**Hostile Intruder**
			Bottom Line, Continuous Scroll	An emergency has been reported in the building. Please secure your area and wait for further instructions.
3	20 sec	Shelter in Place	Top Line, Fixed	**Shelter In Place**
			Bottom Line, Continuous Scroll	An emergency condition has been reported. Secure your windows and doors and remain in the building. Unsafe conditions may exist outside. You will be notified when further information is available
4	15 sec	Alternate Exit	Top Line, Fixed	**Evacuate-Alt**
			Bottom Line, Continuous Scroll	An emergency condition has been discovered in the building. Proceed to your alternate exit and vacate the building.
5	15 sec	Severe Weather Alert	Top Line, Fixed	**Weather Alert**
			Bottom Line, Continuous Scroll	A severe weather warning has been issued. Proceed to the designated shelter area and wait for further instructions.
6	15 sec	All Clear	Top Line, Fixed	**All Clear**
			Bottom Line, Continuous Scroll	(scrolling green) Attention please, the emergency condition has been cleared. You may return to your normal activities
7	20 sec	Evacuate	Top Line, Fixed	**Evacuate**
			Bottom Line, Continuous Scroll	A fire has been reported in the building. Proceed to the nearest exit and vacate the building. Report to your designated assembly place outside the building
8	20 sec	Alert	Top Line, Fixed	**Alert**
			Bottom Line, Continuous Scroll	An emergency condition has been detected in another part of the building. Please remain in your area. You will be notified if further action is required.
9	10 sec	Live Voice	Top Line, Fixed	**Live Voice**
			Bottom Line, Continuous Scroll	A live voice announcement is currently being broadcast