

Alliance 8300 Fire Alarm Systems Reference Guide

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Contact information

For contact information, see www.utcfireandsecurity.com.

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System introduction

Alliance 8300

Alliance 8300 provides a user interface for events received from Fire Alarm Systems (FASs). The program also allows the operator to perform basic actions in case of fire alarm or fault received from Fire Alarm System.

Purpose

This document includes an overview of the product and detailed instructions explaining:

- How to configure FAS connection
- How to handle FAS events

There is also information describing how to contact technical support if you have questions or concerns.

Who should read this manual

This manual is intended for:

- Installation engineers
- System administrators who are responsible for the planning and implementation of the system design, and who perform system configuration and setup using Alliance 8300 forms that are accessible only to the master-level operator
- System operators that are using Alliance 8300 forms and windows accessible through the graphical user interface (GUI)

To use this document effectively, you should have the following minimum qualifications:

- A basic knowledge of PC software
- A basic knowledge of fire alarm systems and components

Read these instructions and all ancillary documentation entirely before installing or operating this product. The most current versions of this and related documentation may be found on our website.

Related documentation

For more information please refer to:

- *Alliance 8300 Online Help System*: Provides reference information, such as screen and field descriptions, along with instructions for system administrator duties, such as configuring Alliance panels.

- *Alliance 8300 Installation Manual*: Provides information for Integration Technicians to set up, install, and configure an Alliance 8300 system.
- FP2000 Installation manuals and reference guides: Provide information for Fire Alarm System installers, service engineers and system operators.

FAS interface overview

Introduction

The FAS (Fire Alarm System) is a system, which monitors a site for the signs of fire. If the fire is recognized by FAS, the system can do the following:

- Raise an alarm
- Run a fire protection equipment
- Send necessary information to operator and/or fire brigade

Fire alarm system also has capabilities to:

- Log fire or fault events
- Allow operator to confirm fire or fault events
- Let operator to reset the system in case of false alarm

The FAS operates separately from Alliance 8300 and requires its own hardware and software provided by UTC Fire & Security. The Alliance 8300 FAS interface supports the UTC Fire & Security fire panels and global repeaters 2000 series.

Setup overview

To perform a successful integration:

1. Set up the Alliance 8300 system and the UTC Fire & Security Fire Alarm System or verify the setup if this is an existing system.
2. Connect the PC with operating Alliance 8300 to fire panel or global repeater being a FAS interface device.
3. Put the FAS online and register and describe all FAS components and devices. See “Configuring FAS in Alliance 8300” on page 5.

Once the Alliance 8300 and FASs are set up and configured, FAS will report fire alarms, fault messages and other events to Alliance 8300 operators. It will be possible also to perform basic functions allowed for local FAS operators.

Hardware requirements

For Fire Alarm System

- At least one fire panel with connected devices (fire detectors and manual call points), and
- At least one global repeater or universal node in case of fire panels network.

For Alliance 8300

- Alliance 8300 computer — Refer to the applicable *Alliance 8300 Installation Manual* or the applicable *Alliance 8300 Administration Manual and Operation Guide* for details on setting up the Alliance 8300 system.

Configuring FAS in Alliance 8300

It is necessary to configure FAS and devices connected to the system to be able to receive messages and perform basic control functions. This can be done using Device | FAS | Setup menu. The form of this menu has four tabs: Communication, FAS Network, Timezone, Devices.

To create new FAS connection, press New, or select File | New record.



Note: If you change settings for an online, connected Fire Alarm System, upon saving the FAS Setup Form Alliance will shutdown the connection and attempt to reestablish connection using the new settings.

Use FAS Setup Form to view or edit the following FAS details.

Description

A text description used to describe the Fire Alarm System. A maximum of 50 characters may be entered.

Note: This text is stored only in Alliance 8300 database. FAS may have its own user text assigned within.

Facility

FAS can belong to one of previously defined facilities. For more information on facilities see *Alliance 8300 Installation Manual*.

Communication setup

The FAS communication should be configured in the tab form shown on Figure 1 below.

Figure 1: FAS communication

Host Computer	Description	Identifier	Serial co
INFRA_39M783J	FAS1	1	COM1

To set up FAS communication, define the following parameters.

Host computer

Host computer name identifies the computer, which the FAS is directly connected to.

Identifier

This field is used for visual identification of devices connected to this FAS. Initially each device will have a description that is automatically generated on the following basis:

[device type name] [FAS id]-[controller address]-[device address]

The identifier is available only in search mode.

Suppress in device description

If this checkbox is selected, the [FAS id] prefix is ignored.

COM port number and baud rate

Select the COM port number and baud rate to communicate with the FAS.

Access Code

Enter FAS access code. Please see FP2000 reference guide to get more details on access codes in the FAS.

FAS network setup

This tab contains information about FAS network connected to Alliance 8300.

Figure 2: FAS network

FAS Setup Form

Description: FAS1
Facility: Ignore Facilities

Communication | **FAS Network** | Timezone | Devices

Addressing mode: 15/15
Host address: 0/7

Global repeaters: ☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31

Control panels: ☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31

Host Computer	Description	Identifier	Serial co
INFRA_39M783J	FAS1	1	COM1

Records: 1

Addressing mode

Select the FAS network addressing mode: 7/31, 15/15, 31/7. The addressing mode should be the same as defined in all FAS nodes.

Host Address

Select fire panel network address assigned to Alliance (same as setup in the FAS).

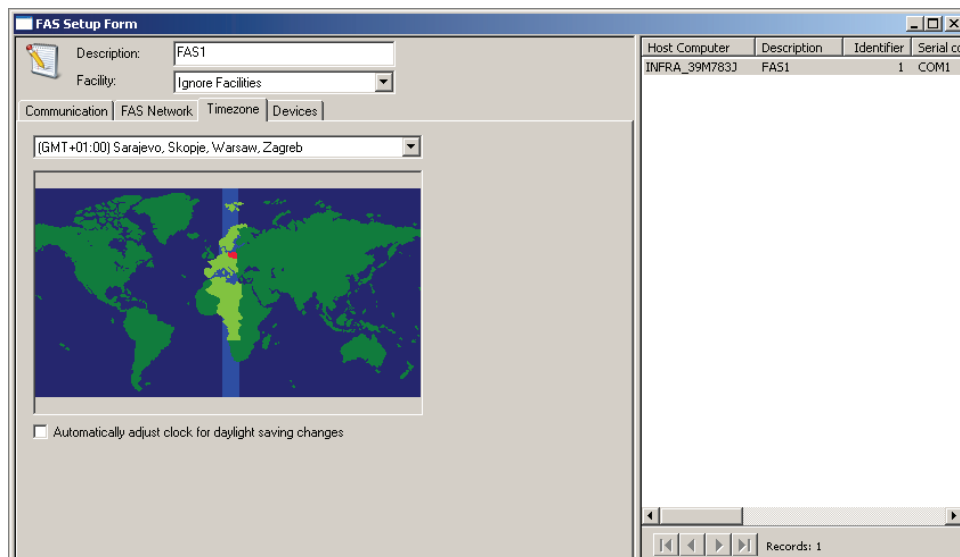
Global repeaters and control panels

Select global repeater and fire panel addresses to communicate with.

Timezone setup

This tab contains time zone settings for communication to this FAS (see Figure 3 below). Use this tab to define the FASs time zone.

Figure 3: Timezone



Select Automatically adjust clock for daylight saving changes, if required.

This setting defines the FAS time offset from GMT, so that alarms can be stored in the Alliance database as GMT.

Device setup

This tab is used to configure all fire devices connected to each fire panel selected in FAS network tab (see Figure 4 on page 8). These devices include fire detectors, manual call points, as well as logical points and groups like zones, areas, inputs, and outputs.

Figure 4: FAS devices

Host Computer	Description	Identifier	Serial communication port	Baud rate
ES-F24F83J	FAS	1	COM1	9600

The following controls are defined in this form.

Show devices

This group allows filtering devices by its configured status.

- All: shows all devices in the Device List
- Not registered: shows only not registered devices in the Device List
- Registered: shows only not responding devices in the Device List

Select device types

This group allows filtering devices by its type.

- Detectors: if selected, detectors are shown in the Device List
- MCPs: if selected, MCPs are shown in the Device List
- Zones: if selected, zones are shown in the Device List
- Areas: if selected, areas are shown in the Device List
- Inputs: if selected, inputs are shown in the Device List
- Outputs: if selected, outputs are shown in the Device List

Updating device list

During the device list update the list shows the controller and device types that are being updated. When updating is finished, all devices are shown in this list.

Next you can select devices to register / unregister from this list.

Refresh device list

Refreshes the device list based on the selected options in Show devices and Select device types.

Cancel update

Cancels the device list update process.

Update device list

Starts updating device list procedure. The progress is shown in the Device List.

Expand all / Collapse all

Expands or collapses all devices in the list.

Register / Unregister

Registers / unregisters selected devices. You can select device type (for example, detectors), and then click one of these buttons to register / unregister all devices of this type.

Register all / Unregister all

Registers / unregisters all devices that are in the Device List.

Configuring device icons

Menu Device > FAS > Devices allows to change description and set of icons of registered devices.

Figure 5: Devices

The screenshot displays the 'FAS Devices Form' interface. On the left, there are configuration fields for a device: 'Description' (FAS Controller 0/1), 'Facility' (Ignore Facilities), 'FAS' (fas), 'Device type' (FAS Controller), 'Controller address' (0/1), and 'Device address' (0 / 1). Below these are 'Icons assignment' settings for various states (Normal, Fault, Disconnected, Test, Pre-alarm, Alarm) with corresponding icon dropdowns. A button 'Add new icon to database' is at the bottom left. On the right, a table lists registered devices with columns: Description, Point Type, FAS Description, Device address, and State Icon Descr. 1. The table contains 24 entries, including FAS Controllers and FAS Zones. At the bottom right, a status bar shows 'Records: 718'.

Description	Point Type	FAS Description	Device address	State Icon Descr. 1
FAS Controll...	FAS Contr...	fas	0/1	Controller - Normal ex
FAS Controll...	FAS Contr...	fas	1/0	Controller - Normal ex
FAS Controll...	FAS Contr...	fas	2/0	Controller - Normal ex
FAS Detecto...	FAS Detec...	fas	1/1	Detector - Normal ex
FAS Detecto...	FAS Detec...	fas	1/2	Detector - Normal ex
FAS Detecto...	FAS Detec...	fas	2/3	Detector - Normal ex
FAS Zone 1/...	FAS Zone	fas	1/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	2/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	3/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	4/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	5/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	6/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	7/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	8/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	9/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	10/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	11/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	12/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	13/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	14/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	15/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	16/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	17/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	18/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	19/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	20/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	21/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	22/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	23/0	Zone - Normal
FAS Zone 1/...	FAS Zone	fas	24/0	Zone - Normal

Description

Text description for selected device, which was previously registered in Alliance database. This description is shown in Alarm Graphic Viewer/Editor and FAS Control and Status Form.

Facility

Click the Facility drop-down list and select the required facility.

FAS

Name of FAS that selected device belongs to.

Device type

Name of device type.

Controller address

Address of fire panel that selected device is connected to.

Device address

Address of the selected device.

Icon assignment fields

You can assign an icon for each state of selected device type.

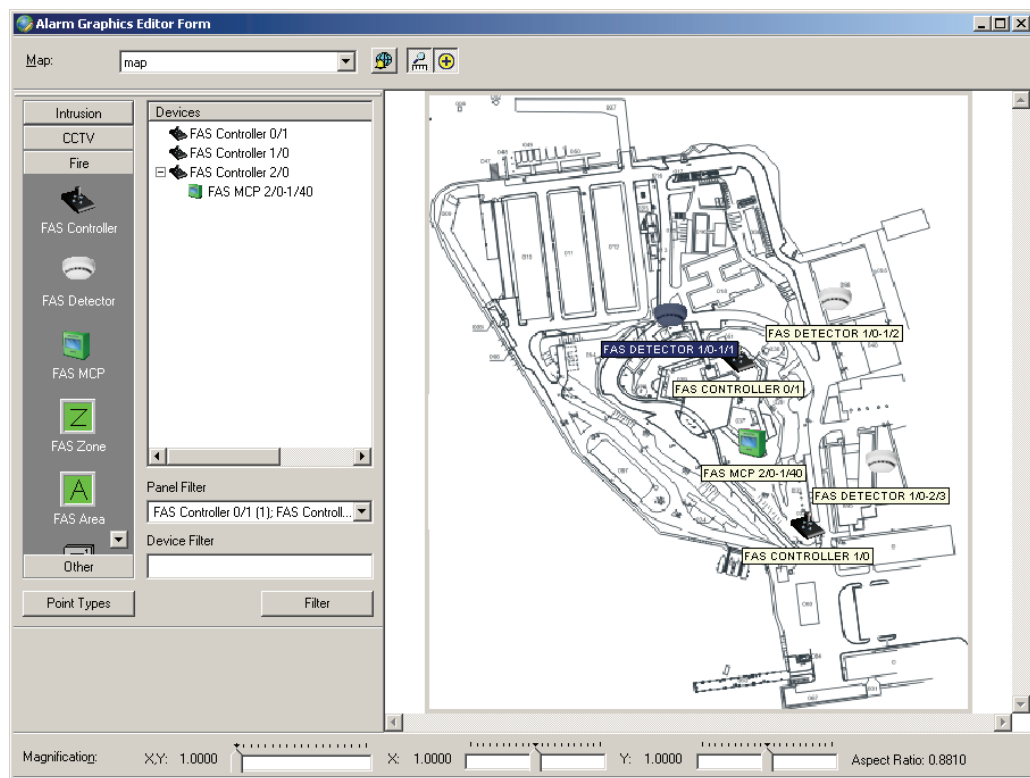
Add new icon to database

You can add new icon to database and then assign this icon to appropriate device state.

Adding fire device icon to the map

Go to menu Operations > Alarm Graphic Editor.

Figure 6: Alarm graphic editor



Select an existing map, or create new one using menu File > New record or pressing toolbar button New.



Using drag-and-drop function put all necessary devices on the selected map.

Note: This FAS device list does not display actual state of devices.

Setting the FAS online

After the Fire alarm System is configured in Alliance 8300, the communication must be activated by putting system online. It can be done using menu Operations > Controller Utility.

Figure 7: Controller utility

Description	Hostname	Address	State	Connection	Firmware version	Status	Comm device
fas	ES-F24F833	0 / 7	Offline	Shutdown	8.36	Idle	COM1

Right click the appropriate FAS and select Set Online.

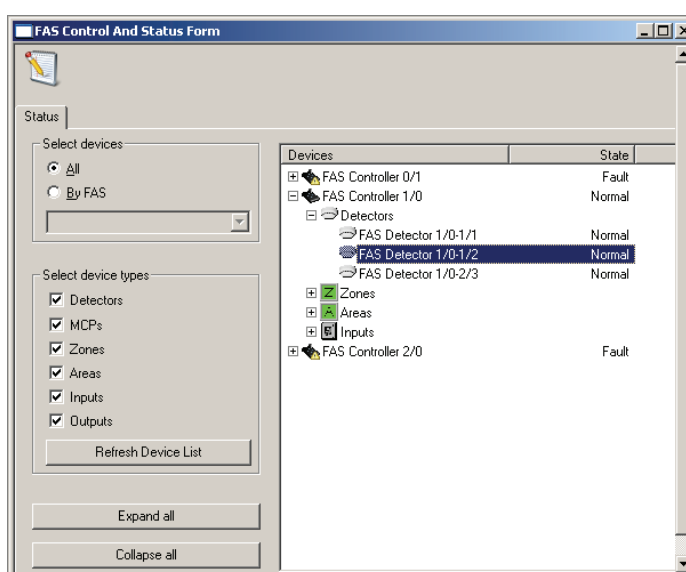
Fire Alarm System monitoring

Fire Alarm System monitoring is available in FAS status monitor on demand using Operations > FAS Control and Status menu. It is also possible to receive Fire Alarm System alarms and events in two other forms - graphic (map) and text (alarm monitor).

FAS Control and Status

Menu Operations > FAS Control and Status provides a form, which allows to check FAS device status and issue basic command to be sent to the particular device.

Figure 8: FAS Control and Status



Select device lists from all controllers or from a selected controller only. Device types, available for control and report status, will depend on the Operator Facilities assigned to you. Device list can contain Detectors, MCPs, Areas, Zones, Inputs and Outputs.

The device screen shows the current state of FAS devices received from the FAS. Devices must be registered in the Alliance Database. The state of a particular device is updated on events received from the FAS. The state of each device is updated every time when connection to the FAS is established.

Right click a device to choose from available control command. This command will then be sent to the selected device.

If a Detector or MCP is selected, you can:

- Change the device status: Enable, Disable, Soak test On/off, Enabled with Alarm Storage On/Off.
- Change device sensitivity: Day Level 1 to 5.

If a Zone is selected, you can:

- Toggle the zone status between Enable and Disable.
- Change zone settings: Coincidence (Normal / Confirmed / Two Devices), On/Off Mode enable/disable, Night Mode enable/disable, Sounder Delay enable/disable, Fire Brigade Delay enable/disable.

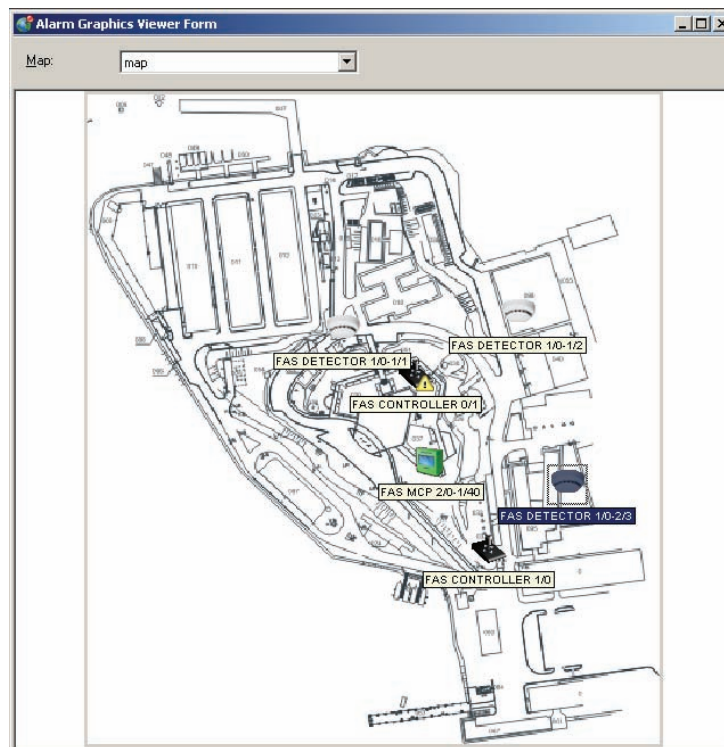
If an Area is selected, you can change the following settings: Enable, Disable, Coincidence Logged enable/disable.

Note: You cannot control Inputs or Outputs.

Alarms on map

Alarms are displayed on map accessible via Operations > Alarm Graphic Viewer.

Figure 9: Alarm Graphic Viewer

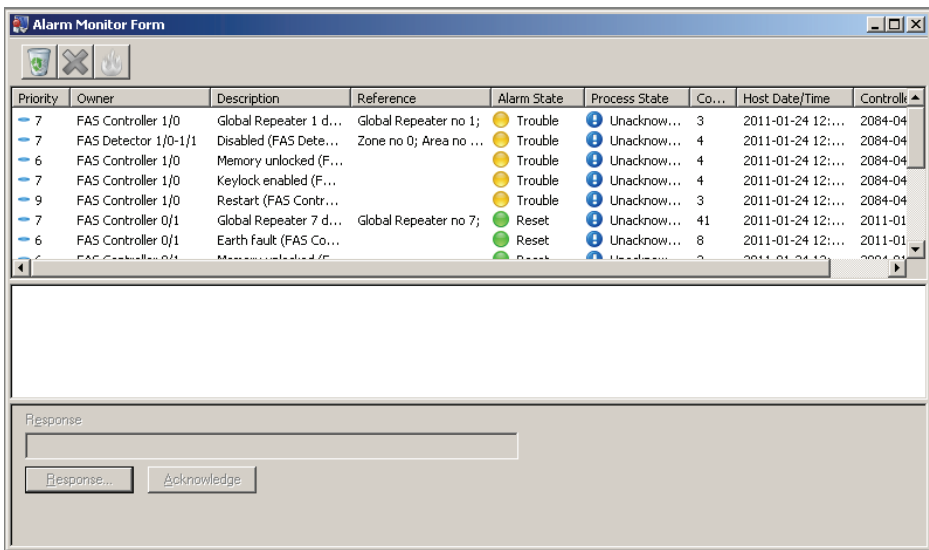


Device in alarm change its icon to the one, which is predefined in Alliance 8300 database for this particular device and state. Right click a device to issue basic commands in the same way as it is described in "FAS Control and Status" on page 12.

Alarms in Alarm monitor

Alarm monitor window shows all incoming and unconfirmed alarms.

Figure 10: Alarm monitor



This window allows the operator to:

- Receive and review alarms
- Read an instruction on this particular alarm and log his response

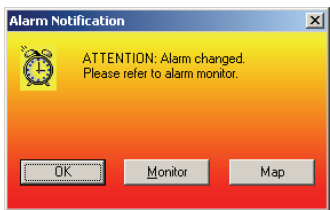
Operator can write a custom response for the selected alarm, or select one from the responses predefined in Alliance 8300 database.

Note: Click the Fire Alarms toolbar button to show fire alarms only.

Alarm notification

In case of incoming alarm the Alarm Notification popup window will appear. For fire alarm the window background color will be red.

Figure 11: Alarm notification



Note: Incoming alarm also causes audio notification. The sound will be silenced when the new alarm is confirmed by the operator.

Troubleshooting and support

Contacting technical support

For assistance installing, operating, maintaining, and troubleshooting this product, please contact your local supplier.

Note: Be ready at the equipment before calling for technical support.

