American Dynamics

Satel INTEGRA integration software for victor 6.0 Administration and User Guide

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Johnson Controls

Contents

Overview

The victor Satel Integration driver provides a Graphical User Interface (GUI) for managing your Satel INTEGRA intruder alarm panel infrastructure, through victor unified client, from American Dynamics.

Users and installers require knowledge of:

- victor unified platform
- Windows operating systems
- experience configuring physical security environments.

ⓘ **Note:** Partners, Customers and Resellers configuring Tyco products require relevant Tyco product training.

Satel INTEGRA Panel Requirements

This integration supports connection to Satel Integra panels through the Ethernet module ETHM-1. To connect the Satel Integration, install and configure the Ethernet module to the Satel Integra panels.

victor Application Server

victor Application Server stores all data, operator profiles, roles and event information, and video recorder or camera objects. Due to dual authenticator modes, users can log on using Active Directory credentials or with the basic method that does not require a domain controller. Operator profiles are portable therefore users can move from one victor client to another and port their credentials regardless of the operating system.

Restrict what devices and features an operator can access by assigning roles using victor's included policy management. Permissions for fire objects can be set on a system-wide level.

Any feature can be limited and updated as situations require. victor journals and creates an audit trail of the systems, including operator activities, fire alarm and point history.

victor unified client

victor unified client connects to the victor Application Server which facilitates event management, observation and monitoring.

Licensing

The Satel driver is a licenced integration for victor. Contact American Dynamics support for a Satel Driver Server license. When the new license is applied, all Framework and Extension services restart. In the Server configuration application, the Satel Driver Service will display as Stopped. Select the appropriate checkbox and click **Start**.

ⓘ **Note:** The Server Configuration Application must be **Run as Administrator** to make this change.

Download the Satel Integration Driver

1. Download the driver from http://www.americandynamics.net
2. Stop the CrossFire Framework Service and close the Server Configuration application before running the driver installer.

Installing the Satel Integration Driver

1. Double-click Satel_Integration-x.x.x.x_AD.exe to launch the installer.

   The Setup dialog opens.
2. Click the **Next** button.

   The End User License Agreement opens.
3. Read the license agreement and select the **I accept the terms in the License Agreement** checkbox, if you agree with the terms.
4. Select **Next**.

   The Tyco CrossFire Service Alert dialog opens.
5. To confirm that CrossFire services restart, select **OK**. You can manually stop the CrossFire Framework Service.

   The Satel Integration Setup window opens.
6. Click **Next**.

   The Installation Options dialog opens.
7. If the integration is being installed on a redundant server select the **Redundant Server** option and enter the virtual server name in the **Virtual Server (alias)** name field.
8. To overwrite a current install, select the **Delete any DB Tables already installed** checkbox. If this is a new installation, leave this unchecked
9. Select **Install**.

   The Satel Integration for victor begins to install.
10. When the installation is complete, click **Finish**.

Configuring victor after driver installation

Before you begin:
For some windows configurations, services may begin automatically after the driver installation.

1. Right-click the **Server Configuration Application** desktop icon and select **Run as Administrator**.
2. Next to CrossFire Framework Service, select **Start** and **CrossFire Server Component Framework Service**.

   The status changes from Stopped to Start Pending then Running.
3. When both CrossFire services display as Running, select the **Enabled** check box and click **Start**, next to the Satel Driver Service.

   The status changes from Stopped to Start Pending then Running.
4. Repeat step 3 for each Extension Service corresponding to the hardware connected to your system, for example **American Dynamics VideoEdge Driver Service** for American Dynamics VideoEdge video recorders.
5. Close the Server Configuration Application.
6. Double-click the **victor client** desktop icon to launch.

Adding a Satel Panel to victor

About this task:

A Satel Panel and connected alarm panel hardware can be added to victor. To add a Satel panel connection to victor complete the following steps:

1. With the victor Client open, select **Create new item**.
2. Select **Satel Panel** > **New**.
3. Enter a Name and an optional Description.
4. Check the **Enabled** check box.
5. Enter a Hostname or IP address for the panel. This is the IP address configured on the ETHM-1 Ethernet module.
6. From the integration section, select the **Integration** checkbox and enter a port number for the Satel Ethernet connection. The default connection is 7094. The port number can be found using the configuration in the GUARDX software.
7. Enter a panel user code for panel commands from the integration in the **User Code** field. If a prefix is required for the user code, enter this with the code.
8. Enter the maximum number of partitions, zones, and outputs that the integration should import in the **Max Partitions**, **Max Zones**, and **Max Outputs** fields respectively.

   ⓘ **Note:** This setting will increase performance of the integration when synchronising devices. The values can be set to -1 (default) and when synchronisation occurs all possible partitions, zones, and outputs will be searched.
9. **Save** and **close**
10. Select the Satel panel in the Device Tree.
11. Right-click the panel icon and select **Synchronise Devices**.

    ⓘ **Note:** Allow up to 4 minutes for panels if all zones, outputs, and partitions are in use.

    In the Devices list, the Satel Devices display.
12. If the device list does not load you can open the Microsoft Event Viewer to check for errors under **Windows Logs** > **Application logs**.

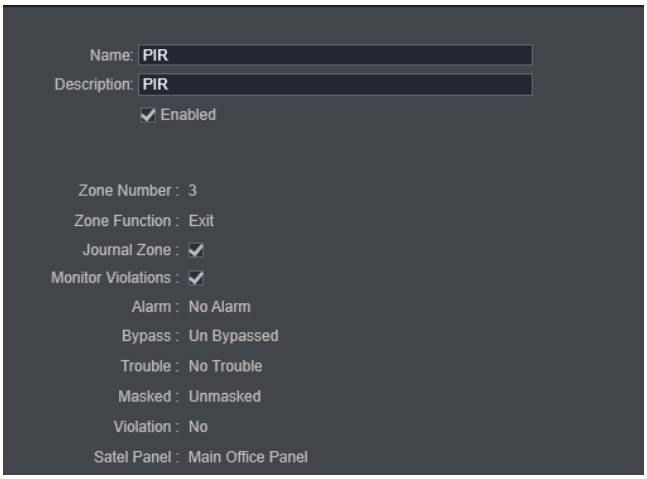
    ⓘ **Note:** See Configuration, Settings, Satel Settings section to configure diagnostic logs to appear in the Event Viewer for more information.
13. Check for Satel events coming into the Journal by navigating to **Open New Tab** and opening Activity Viewer:

    An activity list displays.
14. Configure the Satel zones.

Configuring Satel Zones after adding a Satel Panel to victor

About this task:
After a Satel panel is added to victor, configure the Satel Zones in the Zone configuration window.

Figure 1: Configuring Satel Zones after adding a Satel Panel to victor



1. In the **Name** field, add a name for the configuration.
2. In the **Description** field, provide a description for the configuration.
3. **Optional:** To disable the Satel Zone, clear the **Enabled** checkbox.
4. **Optional:** To stop the victor Journal from logging Satel Zone events or state changes, clear the **Journal Zone** checkbox.
5. **Optional:** To stop the victor Journal from logging or processing Satel Zone violations changes, clear the **Monitor Violations**checkbox.

Satel Commands

Satel Commands are commands issued by victor to Satel objects. Access the Satel Commands from the Device List or from the victor Maps:

ⓘ **Note:** You can set user command authorisation on the Satel Panel.

Figure 2: GUARDX user Authority level settings

Table 1 , Table 2, and Table 3 and Table 4 trigger actions such as synchronising devices, arming panels, changing modes, disarming, clearing alarms, launching the Virtual Keypad, or bypassing and isolating zones.

Table 1: Satel Panel Commands

Command	Description
Synchronize	Synchronizes all supported devices (partitions/zones/outputs) from the panel into victor as Satel objects.
Arm	Arm all partitions on the Satel Panel.
Arm Mode 1	Arm all partitions on the Satel Panel in Mode 1.
Arm Mode 2	Arm all partitions on the Satel Panel in Mode 2.
Arm Mode 3	Arm all partitions on the Satel Panel in Mode 3.
Force Arm	Force arm all partitions on the Satel Panel.
Force Arm Mode 1	Force arm all partitions on the Satel Panel in Mode 1.
Force Arm Mode 2	Force arm all partitions on the Satel Panel in Mode 2.
Force Arm Mode 3	Force arm all partitions on the Satel Panel in Mode 3.
Disarm	Disarm all partitions on the Satel Panel
Clear Alarm	Clear the alarm on all partitions on the Satel Panel
Clear Trouble Memory	Clear the trouble memory on the Satel Panel. ⓘ **Note:** some trouble states require service user to clear on the panel itself
Launch Virtual Keypad	Opens the Virtual Keypad in Internet Explorer for selected Panel. ⓘ **Note:** This feature requires Internet Explorer with Java installed and enabled.

Table 2: Partition Commands

Command	Description
Arm	Arm the Satel Partition.
Arm Mode 1	Arm the Satel Partition in Mode 1.
Arm Mode 2	Arm the Satel Partition in Mode 2.
Arm Mode 3	Arm the Satel Partition in Mode 3.
Force Arm	Force arm the Satel Partition.
Force Arm Mode 1	Force arm the Satel Partition in Mode 1.
Force Arm Mode 2	Force arm the Satel Partition in Mode 2.
Force Arm Mode 3	Force arm the Satel Partition in Mode 3.
Disarm	Disarm the Satel Partition.
Clear Alarm	Clear the alarm on the Satel Partition.

Table 3: Zone Commands

Command	Description
Bypass	Bypass the Satel Zone
Unbypass	Un-bypass the Satel Zone
Isolate	Isolate the Satel Zone

Table 4: Output commands

Command	Description
Output On	Activate the output
Output Off	Deactivate the output
Open Door	Open the Door (only if this output is configured as a door in Satel)

Maps

The maps feature displays a diagram of your security system and the devices in it. Security devices display as icons. You use the maps feature to monitor the state of the devices in real time. You can view event activity in real time by linking Map actions to Events. The following image file types are supported:

*.dwg / *.dxf (Vector)

*.png / *.jpg (Raster)

Image requirements:

- Only CAD Layers visible at the time of import are visible within the image in victor. However, after import, new layers can be added to the converted CAD image and used to configure icons. The actual CAD layers do not exist in victor.
- You can update map image files without disassociating the placed icons.
- victor supports image files up to 20 MB.

Map template

Use the Map Template to create and configure template icons. Any new icon in the Map Template becomes a template for icons of the same type on all maps in your system. For new icons of a type that are added to a map, the annunciation and alert color settings from the template icon replace the default annunciation and alert color settings.

Configuring a Template Icon

1. Select **Maps** from the **Build** tab.
2. Right-click the Map Template.
3. Click **Edit**.
   The Map editor opens.
4. Click the **Add** icon.
   The Icon Selector opens.
5. Click an object icon to add that object to the map.
6. Right-click the object's icon.
7. Select **Drop on Map**.
   The Template Icon Editor opens.
8. Click **Select Object**.
9. Select an object from the list and click **OK**.
10. In the **Assign Alert** section, configure the annunciation settings as required.
11. Select the Annunciation type for an alert.
12. In the **Color** cell, select **Custom** from the dropdown menu.
13. Select an alert color from the menu, or click **Advanced** to choose a color from the advanced color menu. Click **OK** to confirm color selection.
14. **Optional:** Click **Reset to default value** to restore the default annunciation and color settings for the object. Object annunciation and color settings are applied to new icons of the same type added to a map. Other template settings are not applied to new icons.
15. Click **OK**.
16. Select **Save**.

Creating a map

About this task:
Import a Map Image and add the points manually with the following steps:

Note: A Map Image can be *.dwg / *.dxf (Vector) or *.png / *.jpg.

Note: Selecting the GIS Level checkbox when creating a GIS Level Map improves navigation performance.

1. Select **Map** from the **Add new item** tab.
2. Enter a name for the map in the **Name** textbox.
3. Enter a description for the map in the **Description** textbox.
4. **Optional:** clear the **Enabled**checkbox to disable the map. The **Enabled** checkbox is selected by default.
5. Select **Browse**.
6. Browse to the required image file and **Open**.

ⓘ **Note:** If you are importing a CAD (.dxf/.dwg) file the level of compression is set by entering a height and width in the corresponding text boxes.

7. Select **Import**.

   The file imports and displays in the map editor.
8. Select **Save**.

Adding and configuring icons

About this task:
After an image is imported to create a map, configure the map for use by adding icons. Add icons to maps to represent victor objects. Configure various icon properties depending on the object type they represent.

1. Open the map in edit mode.
2. Select the **Add**icon.

   The icon selector displays.
3. Select the required icon.
4. Move the icon to the required position on the map, right-click, and select **Drop on Map**.

   The Icon Editor displays.
5. Select **Object**.

   The Object Selector displays.
6. Select the object to link to the icon and select **OK**.
7. **Optional:** Uncheck the **Not in map** box to display all items. If **Not in map** is selected in the Object Selector, only items which have not yet been added to the map display.
8. Select **OK**.
9. **Optional:** Assign characteristics in the **Icon Editor**.
10. Select **Save**.

Adding and configuring icons using drag and drop

About this task:
Add icons to maps to represent victor objects. Configure various icon properties depending on the object type they represent.

1. Drag and drop victor objects from the **Device List** into the **Map editor**.

   An icon is added to the map, linked to the victor object.
2. **Optional:** Drag objects onto maps from Site, Call ups and Object lists.
3. To configure an icon's characteristics:
   a. Right-click the icon and select **Edit**.
   b. From the Icon Editor, edit an icon's characteristics.
   c. Select **OK**.
   d. Select **Save**.

Cloning icons

About this task:
You can use an existing icon as a template from which to configure a new icon.

1. From the map editor, select the icon you want to clone from.
2. Drag and drop a victor object from the **Device List**.

The new icon, with the settings of the original icon, is added to the map.

3. Right-click the new icon and edit as required.

GIS Level Maps

GIS Level Maps provide an overview of your entire facility or site. Click on each building in a GIS Level Map to show an overview of that building. Select a floor or area to show each floor or area.

Alarm Zoom: Alert Priorities

When an alarm object goes into alarm, it will annunciate based on configuration in the Icon Editor. The Alarm Zoom setting enables the Map to zoom to the alarming object. If Alert Priorities are configured in System Values>Alert Priorities, the Map will zoom to the current highest priority alarming object.

Use the Alert Priority editor to configure and prioritize alerts.

See Configuring and prioritizing alerts for Alarm Zoom for details on setting up priority Alerts in Alarm Zoom Mode.

Configuring and prioritizing alerts for Alarm Zoom

1. Use the alert priority editor to configure and prioritize alerts.

   Any alerts associciated with that object appear in the Assigned Priorities list.
2. Select the Alarm Zoom option that applies
   - **Live Mode**: the Map will zoom to all new alarms as they are activated.
   - **First Loaded**: the Alarm Zoom will zoom to the first or highest priority object that is signalling an alarm. First Loaded is the default value.
3. Select an object from the **Types**dropdown menu.
4. **Optional**: To create a new alert, click on an empty property cell and select a property from the dropdown.
5. Under **Types** section, select the device.
6. In the **Assigned Properties** section, assign an Enum value to the alarm zoom (status) .
7. In the **Assigned Properties** section select the alarm zoom priority:
   - **Very low**
   - **Low**
   - **Medium low**
   - **Medium**
   - **Medium High**
   - **High**
   - **Very High**
   - **Critical**
8. Click the **Save** icon.

Viewing maps

1. From the map view, drag any icon onto any surveillance pane to view the video associated with the icon.
2. From the **Navigation bar**, click the **New Tab** icon, then click **Map**.
3. Select the map that you want to view.

   Map opens.

4. Use the toolbar buttons to manipulate the map.

Map Toolbar navigation

Element	Name	Details
	Refresh	When viewing a map, if the toolbar displays orange, this means that the map has been edited and saved since it was opened. Select to update.
	Zoom controls	Displays current zoom level percentage along with Fit to Window and Zoom Out/In buttons.
	Hide icon types	Opens the Hide Type editor which allows selection of icon types to hide, Cameras or Recorders.
	Show all icons from all layers	Shows and highlights all icons from all visible layers.
	Show all shapes from all layers	Shows all configured areas from all visible layers. Right-click to display FoV, Shapes or Text only.
	Activity list	Opens a map specific Activity List that displays the 100 most recent activities relating to objects on the map.
	Map in map	Opens a thumbnail window in the lower-right corner of the map screen. The window contains a thumbnail image of the map, and the current zoom level is shown as a transparent green rectangle. Click and drag the green rectangle to reposition the map view within the map window.
	Layers	Opens Map Layers editor allowing selection of map layers to show/hide.
	Save to incident	Saves a screen capture of the map to an Incident. Map screen captures are saved to the Images folder.

Element	Name	Details
Hover	Hover mode	Select to enable hover mode. When enabled, hovering over objects will display additional information. For example, hovering over a camera will open a pop-up surveillance pane within the map view, displaying live video from the camera. Other cameras can be dragged and dropped into the pop-up windows.
Auto Hide	Auto hide	This works in conjunction with Hover Mode. When auto hide is enabled the surveillance pane will close automatically when the mouse is moved off the icon that initiated surveillance pane. If hover mode is disabled, auto hide cannot be selected. This works in both edit and view mode.
Health	Health mode	Select to enable health mode. When enabled, icons will be highlighted with their health status. When enabled with hover mode, hovering over icons will display the objects health dashboard within the map view.
Text	Show text shapes	Select to show all text shapes on the map. This option is selected by default.
GIS Layer	Show GIS map layer	Select to enable the geographic information system (GIS) map layer. Object icons can be added to the GIS map in the same way as for other maps.

Note: When viewing a map, drag any icon onto any surveillance pane to view its associated video.

Configuring Events

About this task:
with the Satel integration for victor you can configure alarm types at the Satel level. You can enable or disable alarm types on each server and enable or disable alarms for each device. This effects the

alarm processing at the victor Satel driver level. Incoming alarms will be filtered in the driver based on this configuration and either journaled or not journaled into victor.

1. From the Alarm Type Configuration Editor, click the **System Configuration** icon and select **Settings**, and then select **Satel Settings**.
2. Under **Satel Events Settings** menu is the alarm list editor window.
3. From the **Satel Event Setting** editor window, enable or disable Satel alarm types by selecting or unselecting the **Enabled** option.
4. Click **OK** to save the configuration.

Enable or Disable Alarms for Satel Devices

About this task:
For any Satel device including Panels, Partitions, Zones and Outputs) double-click on the device from the device tree, dynamic view or map to edit the object.

1. To disable an alarm, uncheck the **Enabled** checkbox and save the object.
2. This enable/disables the creation of victor journal entries for that device.

Events and Schedule Setup Editor

1. Select **Event/Schedule Setup** from the **System configuration** tab.
   Events Setup editor displays.
2. Double-click the **Devices** node and use the object selector to select the device or drag and drop the device from the device list.
3. Click the **Alerts** icon, under the device that was added, and use the checkboxes in the dropdown to assign alerts.
4. Select **Add Alerts**.
   Selected alerts are displayed under the Alerts node.
5. Click the **Alerts** icon in the **Alerts** node and use the **Object Selector** to assign Actions.
6. Repeat as required. Use the **Alerts**icon and the **Bin** icon to add and remove objects.
7. Use merge and clone options as required to copy configurations:
8. Merge and clone target configuration.
9. Duplicate source configuration to all targets.
10. Remove configuration on source and target.
11. Use **Schedule** icon to add/remove schedules as required.
12. Select **Save**.
13. Configuring Satel actions.
14. Optional Create Satel Integration specific actions to tie together system events with actions you want to trigger.
15. Select **Satel Action** from the **Create new item** tab.
16. Enter a **Name** and **Description**.
17. Click the **Add** icon to add devices for this action.
18. Select the action to execute. As an example, for a partition the following actions are available:
    - Arm
    - Arm Mode 1
    - Arm Mode 2
    - Arm Mode 3

- Force Arm
- Force Arm Mode 1
- Force Arm Mode 2
- Force Arm Mode 3
- Disarm
- Clear Alarm

19. Select **Save**.

Event/Action Pairing Editor

1. The Event/Action pairing editor is used to tie together system events with actions.
2. Event/Action association can only be made in this editor.
3. Select **Event/Action Pairing** from the **System Configuration** tab. The editor opens.
4. Click the Events node and use the Object Selector to select events as required.
5. Select **Alerts** icon in the **Event** node and use the Object Selector to assign event Actions.
6. Repeat as required. Use the **Alerts**icon and the **Bin** icon to add and remove objects.
7. Select **Save**.

Event Setup

The Events and Schedule setup editor provides a dynamic visual method of batch linking Devices, Alerts and Actions as well as to set up event scheduling.

Event Status Mapping

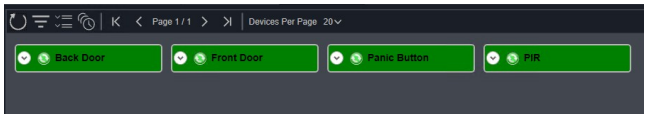
Event status mapping is not supported by this integration, however both event and restore events are supported as event types.

Health Dashboard

The Health Dashboard can be opened by clicking New Tab and selecting Health Dashboard. When open the status of the Satel System can be monitored. This includes:

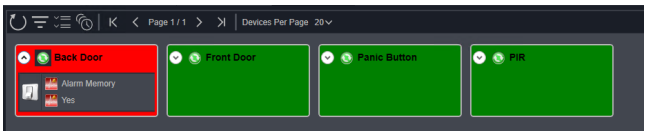
- Satel Panels
- Partitions
- Zones
- Outputs

Figure 3: Health dashboard



When a Satel object goes into an alarmed state on the panel, the corresponding icon will turn red on the Health Dashboard. The icon can be expanded to view the alarm details for the object. Once the alarm is cleared for the object on the panel, the icon will revert to a green color.

Figure 4: Health dashboard showing an icon in an alarmed state



Satel Settings

In the Configuration tab, configure a range of system-wide settings from the **Settings editor**. For the Satel Integration for victor, these settings are helpful to increase logging level that is exported from the Windows Event Viewer.

Satel Settings Overview

Satel Settings are Global Integration-wide settings for Satel Objects, Select System Configuration, Settings and Satel Settings to display the following configuration options:

Diagnostic Logging in Event Viewer – Allows users to enable/disable Diagnostic level logging in the Event Viewer.

Satel Sync Settings – Allows users to configure the interval in which victor will re-sync devices from the Satel panel. Auto-sync may be configured to run daily, weekly or monthly.

Satel Events Settings – Allows users to enable/disable Satel events that will be journaled in victor.

Satel Device States

The following sections list the states supported by each of the Satel object types in victor.

Table 5: Panel States

State	State Values
Sync Status	Synchronization Status Unknown Synchronization Failed Synchronizing Synchronized
Connection Status	Connection Status Unknown Connection Failed Connecting Connection Successful Disconnected

Table 5: Panel States

State	State Values
Panel Trouble	No trouble Technical Zones Expanders AC trouble Expanders BATT trouble Expanders NO BATT trouble System troubles CA-64 PTSA modules AC trouble CA-64 PTSA modules BATT trouble CA-64 PTSA modules NO BATT trouble ETHM-1 monitoring trouble Proximity card readers head A trouble Proximity card readers head B trouble Expanders supply output overload Addressable zone expanders short circuit or jammed ACU-100 modules ACU-100 modules jam level Radio devices with low battery Radio devices with no communication Radio outputs with no communication Expanders with no communication Switcherooed expanders LCD keypads with no communication Switcherooed LCD keypads ETHM-1 modules with no LAN cable / INT-RS modules with no DSR signal Expanders tamper LCD keypads tamper LCD keypad initiation errors Auxiliary STM troubles Low battery in masters key fobs Low battery in users key fobs Radio devices with low battery (last 120 ACU-100 devices) Radio devices with no communication (last 120 ACU-100 devices) Radio outputs with no communication (last 120 ACU-100 devices) Technical zones 129..256 ACU-100 modules jam level (last 15 ACU-100 modules)

Table 5: Panel States

State	State Values
Panel Trouble Memory	No trouble Technical Zones Expanders AC trouble Expanders BATT trouble Expanders NO BATT trouble System troubles CA-64 PTSA modules AC trouble CA-64 PTSA modules BATT trouble CA-64 PTSA modules NO BATT trouble ETHM-1 monitoring trouble Proximity card readers head A trouble Proximity card readers head B trouble Expanders supply output overload Addressable zone expanders short circuit or jammed ACU-100 modules Memory of LCD keypads restart Memory of expanders restart GSM trouble code (high,low) GSM trouble code memory (high,low) Memory of radio devices with low battery Memory of radio devices with no communication Memory of radio outputs with no communication Expanders with no communication Switcherooed expanders LCD keypads with no communication Switcherooed LCD keypads ETHM-1 modules with no LAN cable / INT-RS modules with no DSR signal Expanders tamper LCD keypads tamper LCD keypad initiation errors Auxiliary STM troubles Memory of long zones violation Memory of no zones violation Memory of zones tamper Radio devices with low battery (last 120 ACU-100 devices) Radio devices with no communication (last 120 ACU-100 devices) Radio outputs with no communication (last 120 ACU-100 devices) Memory of long zones 129..256 violation Memory of no zones 129..256 violation Memory of zones 129..256 tamper Memory of troubles - technical zones 129..256
Armed	Disarmed Armed Partial Armed

Table 5: Panel States

State	State Values
Alarm	No Alarm Alarm Fire Alarm Alarm Memory Fire Alarm Memory Verified Alarm Warning Alarm
Violated Zones	No Yes

Table 6: Partition States

State	State Values
Armed	Disarmed Armed Suppressed Armed Armed Mode 1 Armed Mode 2 Armed Mode 3
Alarm	No Alarm Alarm Fire Alarm Alarm Memory Fire Alarm Memory Verified Alarm Warning Alarm
Violated Zones	No Yes

Table 7: Zone States

State	State Values
Alarm	No Alarm Alarm Tamper Alarm Alarm Memory Tamper Alarm Memory
Bypass	Bypassed Un Bypassed Isolated
Masked	Unmasked Masked Masked Memory
Violated	No Yes
Trouble	No Trouble Tamper No Violation Trouble Long Violation Trouble

Table 8: Output States

State	State Values
State	On Off