

GE Concord Alarm Panel Plugin

This plugin adds basic integration with the Concord alarm panels.

Features supported:

- Arm / disarm the partitions
- Bypass / unbypass zones
- Enable / disable chime mode
- Activate a panic alarm

The plugin exposes the panel zones as motion sensors, so they can be used in scenes and events.



Installation

Before installing the plugin you must connect the SuperBus 2000 Automation Module to Vera using a RS-232 to USB adapter with a **FTDI** or **Prolific** chipset, like [this one](#).

After connecting the Automation Module to Vera restart the Luup engine so that MiOS can detect the RS-232 to USB adapter. To check if the adapter was detected:

- on UI4 go to *MiOS developers* >> *Serial port configuration*;
- on UI5 go to *Apps* >> *Develop apps* >> *Serial port configuration*.

If Vera detected the adapter that page shouldn't be empty; instead, you should see a device which is usually called *ftdi_sio* if it has a FTDI chipset.

Next you must configure it:

- set the *Baud* to **9600**;
- set the *Data bits* to **8**;
- set the *Parity* to **Odd**;
- set the *Stop bits* to **1**;
- leave the other parameters as they are, unless you know what you're doing.

If the adapter has been detected by MiOS and configured, you can proceed to install the plugin.

Develop Apps

Vera developers

Test Luup code (Lua)

Edit Startup Lua

Luup files

Serial Port configuration

Create device

Serial Port configuration

If you connected the USB/serial device and it's not displayed here, reload Luup.

Name:	<input type="text" value="ftdi_sio"/>	Path:	<input type="text"/>
Device number:	<input type="text" value="usb-rt3883-ohci-1"/>		
IP address:	<input type="text"/>	Port:	<input type="text" value="3481"/>
Baud:	<input type="text" value="9600"/>	Parity:	<input type="text" value="odd"/>
Data bits:	<input type="text" value="8"/>	Stop bits:	<input type="text" value="1"/>
Used by device:	<input type="text" value="- Please select -"/>		

UI4

1. Download [this](#) package and extract the files.
2. Go *MiOS developers >> Luup files* and upload the extracted files. Do not check *Restart Luup after upload* (bottom of the page); if it's checked, uncheck it.
3. Go to *Create device* and:
 - in the *Description* field enter the name of the device;
 - in the *UpnpDevFilename* field enter *D_Concord.xml*;
 - click *Create device*.
4. Restart the Luup engine (curved arrows in the top right of the UI).
5. After the Luup engine has restarted refresh the UI (best use <CTRL + F5> to do so).
6. Open the control panel of the newly created device, the *Settings* tab, and from the *Send using* drop-down select the serial adapter.
7. Save.

UI5

1. Install the plugin from the MiOS Marketplace (*Apps >> Install Apps*).
2. Open the control panel of the new device, the *Settings* tab, and from the *Send using* drop-down select the serial adapter.
3. Save.

Configuration

In the control panel of the alarm panel device, near the bottom of the **Advanced** tab, there are a few configuration parameters:

Partitions	This is the number of partitions your panel is configured to use. This is 1 by default. Valid values: 1 to 6 .
DebugMode	When this is 0 only the errors and the important events are written to the log file. This is 0 by default. Valid values: 0 , 1 .
ExtraFeatures	Setting this parameter to 1 allows the plugin to control some extra features. Currently <i>Chime Mode</i> and <i>Quick Arm</i> are the only extra features, but this may change in the future. This is 0 by default, because enabling this greatly increases the amount of data Vera must receive from the panel, which could slow Vera down. Only enable this if you use any of the extra features. Valid values: 0 , 1 .

Concord Panel			
Room: Concord			
Control	Zones	Settings	Advanced
room	<input type="text" value="6"/>		
onDashboard	<input type="text" value="1"/>		
local_udn	<input type="text" value="uuid:4d494342-5342-564"/>		
commUse	<input type="text" value="rs232"/>		
Variables			
DebugMode	<input type="text" value="0"/>		
Partitions	<input type="text" value="1"/>		
ExtraFeatures	<input type="text" value="0"/>		
IODevice	<input type="text" value="20"/>		
LastUpdate	<input type="text" value="0"/>		
New service:	<input type="text"/>		
New variable:	<input type="text"/>		
New value:	<input type="text"/>		
<input type="button" value="Add"/>			

Usage

Basic tasks

• Arm / disarm partition

1. Open the control panel of the partition.
2. Enter a user code valid in that partition in the *User Code* input box.
3. Press the button for the desired arm mode. For more information on what the various arming modes mean, please consult the user manual of the alarm panel.

If *Quick Arm* is enabled, it's possible to arm the partition without entering the User Code. However, disarming will still require the user code.

The screenshot shows the 'Concord Partition #1' control panel. At the top, there's a blue header with a padlock icon, the title 'Concord Partition #1', and icons for help, status, and close. Below the header, there's a tabbed interface with 'Alarm Partition' selected, and 'Notifications' and 'Advanced' tabs. The main area shows the 'Status: Stay' and 'Room: Concord'. Under 'Arm/Disarm Partition', there's a 'User Code:' input field and a grid of buttons: 'Away', 'Away (No Delay)', 'Away (Silent)', 'Stay', 'Stay (No Delay)', 'Stay (Silent)', and 'Disarm'. Below this is a 'Toggle Chime Mode' section with a 'Chime Mode' button. At the bottom, there's a 'Panic Alarms' section with 'Police', 'Fire', and 'Auxiliary' buttons.

• Bypass / unbypass zone

1. Open the control panel of the alarm panel device, then the *Zones* tab. You will see the list of the detected zones in all partitions and their status.
2. Enter the user code valid in the partition the zone belongs to in the *Pin* input box.
3. Click on the buttons to bypass/unbypass the zones.
4. Wait several seconds (about 10 seconds to be sure) then click on the *Zones* tab again to refresh it. **The plugin doesn't provide any feedback if the bypassing/arming succeeded or not, so if after 10 seconds or more the status of the zone doesn't change, it means that the action failed.**

The screenshot shows the 'Concord Panel' control panel with the 'Zones' tab selected. The header includes a globe icon, the title 'Concord Panel', and icons for help, status, and close. The main area displays a table of zones with columns for 'Zone #', 'Name', 'Faulted', 'Trouble', 'Bypassed', and 'Pin:'. Each row has a 'Bypass' button. The table lists four zones: 01 BREEZEWAY, 02 FREEZE, 03 GARAGE, and 04 SHED, all with 'X' marks in the Faulted, Trouble, and Bypassed columns.

Zone #	Name	Faulted	Trouble	Bypassed	Pin: <input type="text"/>
01	BREEZEWAY	X	X	X	<input type="button" value="Bypass"/>
02	FREEZE	X	X	X	<input type="button" value="Bypass"/>
03	GARAGE	X	X	X	<input type="button" value="Bypass"/>
04	SHED	X	X	X	<input type="button" value="Bypass"/>

• Enable / disable Chime Mode

1. Open the control panel of the partition.
2. Press the *Toggle Chime Mode* button.

- **Activate panic alarm**

1. Open the control panel of the partition.
2. Press the button to activate the desired panic alarm.

WARNING: The alarm will go off immediately! No confirmation dialog will appear.

In scenes

- **Arm / disarm partition**

TODO

- **Bypass / unbypass zone**

TODO

- **Activate panic alarm**

TODO

Notes

- The *Quick Arm* feature cannot be controlled from the plugin. If *ExtraFeatures* is enabled, the *Quick Arm* status is displayed in the *Advanced* tab of the partition devices. Changing it has no effect, because it is updated to its real value at startup.
- The *Away (No Delay)*, *Away (Silent)*, *Stay (No Delay)* and *Stay (Silent)* buttons won't be highlighted when arming using those modes. Instead, only the *Away* or *Stay* buttons will be highlighted.

Attachments