Cardio2e Binding

The openHAB KNX binding allows one to connect to [Secant Cardio IIé](#) home automation system installations. Dimming or switching lights on and off, switching devices on and off, activating roller shutters, executing escenarios, managing HVACs or activating system security are only some examples.

To access your Cardio system you either need an RS-232 interface (like e.g. a Prolific PL-232 based USB to RS-232 converter interface), and a DB-9 to RJ-11 cable suitable for either Cardio PC or Cardio ACC port. You can use this [schema](#) to build your Cardio PC port cable.

Note: You can also use the Cardio accessory port (ACC) instead of PC port, so you must crimp the RJ-11 in reverse order, exchange RD and TD signals from the DB-9 connector with respect to the previous PC schematic (pins 2 and 3) and do not connect pin 7.

Binding Configuration

This binding can be configured in the file services/cardio2e.cfg.

Property	Default	Required	Description
port		Yes	Serial RS-232 port Examples: '/dev/ttyUSB0' for Linux, 'COM1' for Windows.
programcode	00000	No	Installer program code for login.
securitycode		No	Security code for arm / disarm alarm.
zones	false	No	Alarm zones state detection. Enables alarm zones state detection (by default 'false' for minimum

			use of resources).
zoneUnchangedMinRefreshDelay	600 000	No	Minimum delay in milliseconds for zone detection refresh when no state changes succeed (by default '600000' milliseconds = 10 minutes).
datetimeMaxOffset	15	No	Date and time maximum offset allowed (in minutes) for progressive date and time state update. Special values: '0' will remove offset limit, '-1' will disable progressive update and will remove offset limit, '-2' will do unconditional update without any filter even if current date and time of Cardio IIé matches the update.
firstUpdateWillSetDatetime	false	No	Always will set Cardio IIé clock on first date and time update, even if allowedDatetimeUpdateHour was set.
allowedDatetimeUpdateHour	-1	No	Allows date and time updates on specified hour only. Valid values are from '0' to '23' ('-1' disables hour restriction).

testmode	false	No	Enables fake port console test mode, for developer debug purposes only. Warning: Real communication with Cardio 2é will not work if enabled!
minDelayBetweenReceivingAndSending	200	No	Minimum delay in milliseconds between receiving and sending, for expert tuning only. By default '200' milliseconds (tested safe value).
minDelayBetweenSendings	300	No	Minimum delay in milliseconds between sendings, for expert tuning only. By default '300' milliseconds (tested safe value).
filterUnnecessaryCommand	false	No	Avoid sending commands when the last value of the object reported by Cardio IIé is the same value as the command value.
filterUnnecessaryReverseModeUpdate	true	No	Avoid sending updates (revese mode) when the last value of the object reported by Cardio 2é is the same value as the update value.
smartSendingEnabledObjectTypes		No	Comma separated list of

			smart sending enabled object types. Valid values are 'LIGHTING', 'RELAY', 'HVAC_CONTROL', 'DATE_AND_TIME', 'SCENARIO', 'SECURITY', 'ZONES_BYPASS' and 'CURTAIN'.

Example

```
port=/dev/ttyUSB0
programcode=00000
securitycode=12345
zones=true
filterUnnecessaryCommand=true
smartSendingEnabledObjectTypes=LIGHTING, RELAY, HVAC_CONTROL, DATE_AND_TIME,
SCENARIO, SECURITY, ZONES_BYPASS, CURTAIN
```