

# Integration document for 2N Helios IP intercoms

This document describes how can 2N Helios IP intercoms be integrated into 3<sup>rd</sup> party systems.

Describes current status, January 2013.

# **SIP 2.0**

- standardized SIP messages according to RFC 3261

# HTTP commands (part of Enhanced Integration license)

All switches in Helios IP can be controlled by HTTP commands. This feature has to be allowed in configuration menu. HTTP command for switch control is:
<a href="http://helios\_ip\_address/enu/lockstate.xml.p?lockXstate=Y">http://helios\_ip\_address/enu/lockstate.xml.p?lockXstate=Y</a>
X is the switch number (1-4) and Y is 0 for switch off, 1 for switch on and 2 for change over.

Optionally you can use the parameter **answer** for a configurable answer to this request: <u>http://helios\_ip\_address/enu/lockstate.xml.p?lockXstate=Y&answer=text</u>, where **text** is the answer.

- Optionally also other functions of HIP can be controlled with HTTP commands, see manual for Automation feature for details.
- Helios IP can control external IP devices by HTTP commands. Those commands are not given and their form can be customized.

# RTSP server (part of Enhanced Video license)

- Video streaming from Helios IP. This feature has to be activated in configuration menu.
- When enabled, one client from predefined address, or four anonymous RTSP clients can connect.
- All clients get same content in the same format which is defined in Helios IP configuration.

### SMTP client (part of Enhanced Integration license)

- Email sending in case of unanswered call.

### **Output relays** (up to 4, depends on installed hardware)

	Force	Safety	Uni	Vario
1 (on board)	Passive and active	Passive and active	Passive and active	Passive or active
2 Additional Switch	Passive and active	Passive and active	-	Passive
3 Card Reader module	Passive	-	-	Passive

4 Card Reader	Active			Passive
module	Active	-	-	rassive

Passive output: 30V/2A, AC/DC (relay output) Active output Helios IP Force, Safety and Uni: 12V/700mA DC (can power standart electrical lock)

Active output Helios IP Vario: 12V/900mA DC (can power standart electrical lock)

Note: With Helios IP Force, either Additional Switch or Card reader can be used, not both at the same time

# **RFID card reader**

Accepted cards: EM4100 / EM4102 cards 26-bit and 37-bit HID Proximity cards Working frequency: 125kHz

# Wiegand (only with RFID card reader)

- Input / Output (as programmed). 26 bits with adjustable facility code.

# **RS-485** (only with RFID card reader) – **not activated yet**

Maximum output voltage: 4.7 V Minimum output voltage (into load): 1.5 V Receiver input range: 6 V Receiver sensitivity: 300 mV Terminating resistance: 120 ohm (optional)

# Logical inputs (only with RFID card reader)

Active mode – requires external voltage • UIN-ON = min +2.5 V • UIN-OFF = max +1.5 V • UIN max = +48 V • IIN (UIN +48 V) = max 1 mA Passive mode – requires external contact only • UOUT = approx. 8.3 V • ILOOP = approx. 0.5 mA

# **ONVIF** (part of Enhanced Integration license)

- Protocol enabling use of Helios IP as one of industrial surveillance cameras.
- This feature has to be enabled in configuration menu and properly set.