

Base de connaissances > Products > Industrial HiVision > Encryption in Industrial HiVision

# **Encryption in Industrial HiVision**

Christoph Strauss - 2022-01-25 - Industrial HiVision

#### 1. Data in Transit

- Within Industrial HiVision:
  - GUI Kernel: Corba over SSL (encrypted)
  - Kernel Kernel: Corba over SSL (encrypted)
- Industrial HiVision Devices (dependent on the device / the configuration of the device):
  - Unencrypted:
    - SNMP V1, HTTP, Telnet, HiDiscoveryV1, HiDiscoveryV2, EtherNet/IP
  - Encrypted:
    - SNMP V3, HTTPS, SSH

## 2. Data at Rest

- Most data is stored unencrypted in the Industrial HiVision database
  - All passwords and community strings (SNMP V1) are encrypted in the database
- Some data is stored unencrypted in files, for example the IP address of the server to which the GUI is connected
- Industrial HiVision User Management: stored in an unencrypted file, passwords saved as a hash

## 3. Authentication and Management of Security Services

- User Management in Industrial HiVision: configurable:
  - None
  - LDAP (secure or unsecure)
  - RADIUS (unsecure)
  - Local (Industrial HiVision User Management)
- Password to protect Edit Mode (optional and configurable)

#### 4. Protocol Security

- SNMP V3: depending on the settings: MD5, SHA / DES, AES128
- All passwords and community strings in the database: DES