

#BCX17

CONNECTED BUILDING & CITY

Bosch surveillance cameras

Bosch surveillance cameras on #BCX17

Information for Hackers

Which (telemetry) data is available?

- ▶ *Optical sensor*
- ▶ *Audio sensor*
- ▶ *Events*

How to access data?

- ▶ *Webbrowser*
(recommended IE with ActiveX enabled)
- ▶ *BoschVideoSDK*
- ▶ *RTSP client (e.g. VLC player)*

How to interact with the device or the system?

- ▶ *Get Videostream (RTSP, RTP)*
- ▶ *Interfaces HTTP / RCPP / CGI / ONVIF*
- ▶ *Set up IVA tasks (ActiveX)*
- ▶ *Get autonomous triggered alarms / events*
- ▶ *Alarm email / messages*

Anything else that is important for the hackers?

- ▶ *MicrosoftCognitiveServiceExample (C# example for connection to the camera and analyze data via MS Cognitive Services)*
- ▶ *Alarm task script example (own Bosch script language)*
- ▶ *RCP+ and VideoSDK documentation will be provided*
- ▶ *CognitiveServiceExample (Java example [in Arbeit])*

What events are available?

- ▶ *Generally all alarm tasks / rules which can triggered with the camera (see next slide)*

Bosch IVA

16 IVA Rules

Object in field



Object entering field



Object leaving field



Line Crossing



Route following



Loitering



Idle object



Removed object



Crowd Density Estimation



Counter



Bird Eye View Counter



Condition change



Similarity / Forensic search



Tamper detection



Flow in field



Counter flow in field



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