Edge on-device AI

To make all cameras smart (finally)!

Edge on-device AI & Deep Learning

4Gb RAM
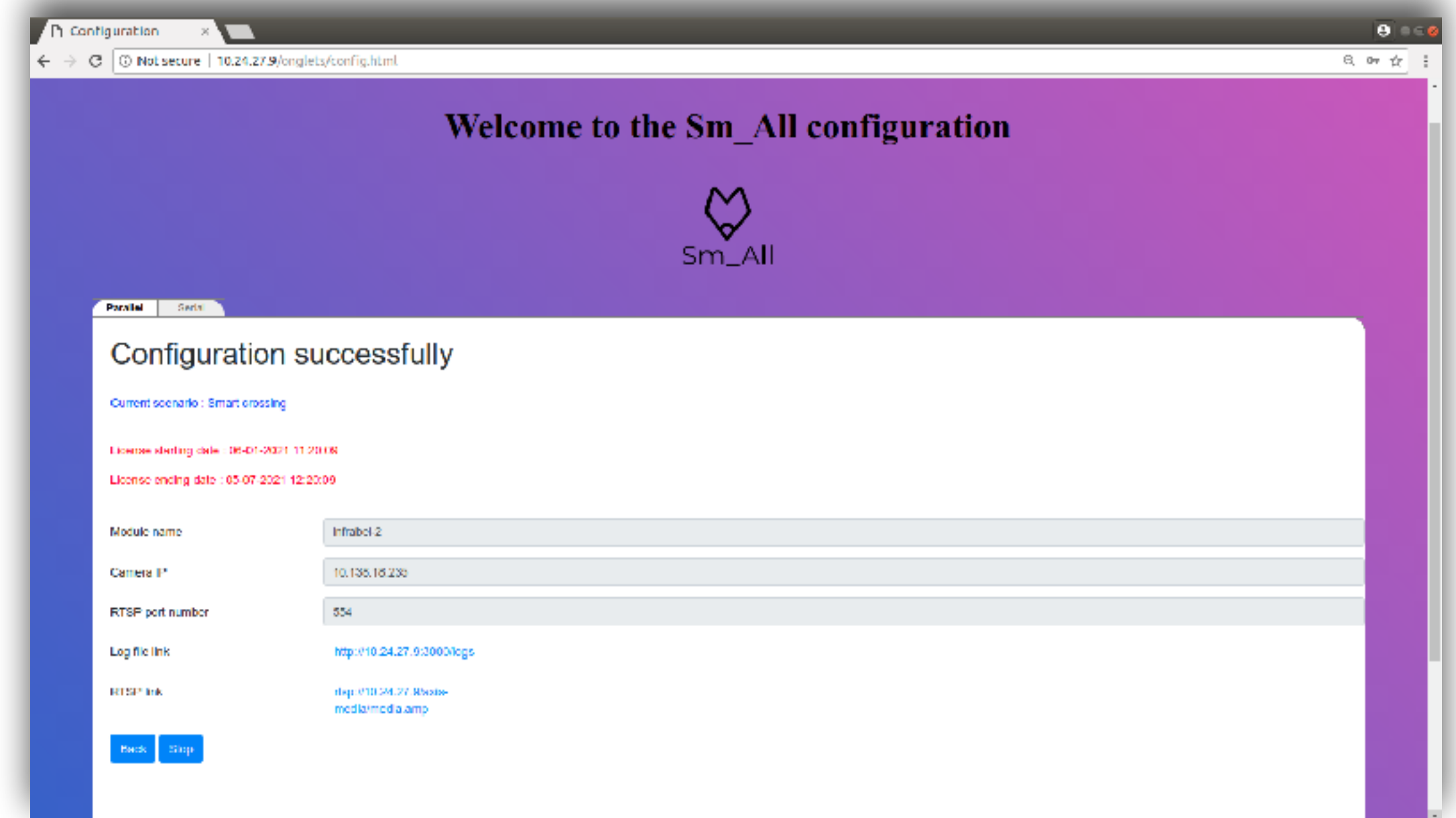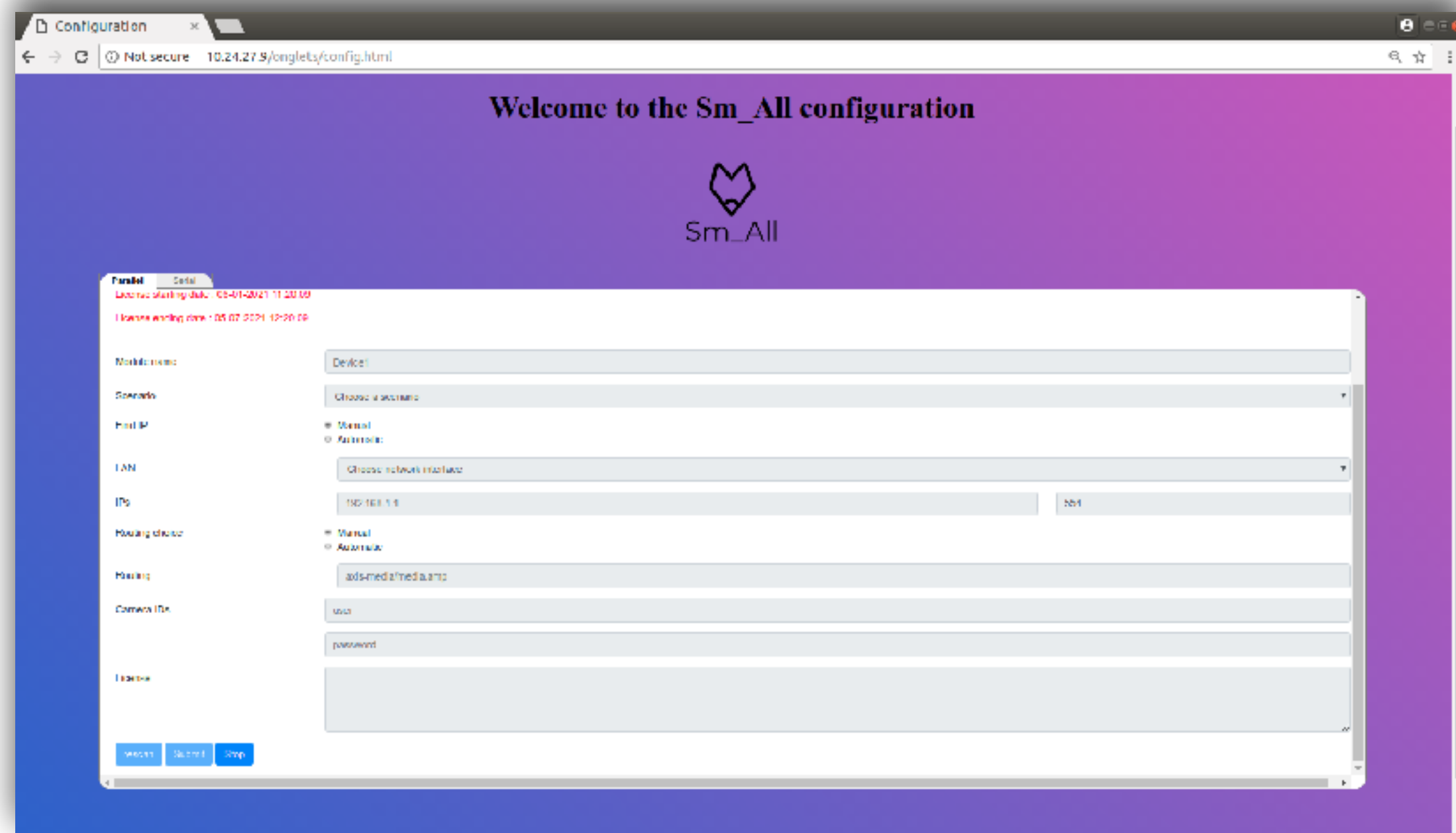**128Gb encrypted SSD**
PoE In
PoE Out

Easy http setup

Every module has its own OLED display with IP, etc.

The self setup is accessible via http (http://IP)

Every module has an auto-discover mode about the network settings and cameras (with users and passwords dictionary)

Every module is IEEE 802.1x compliant.

AI detection models

Sm_All

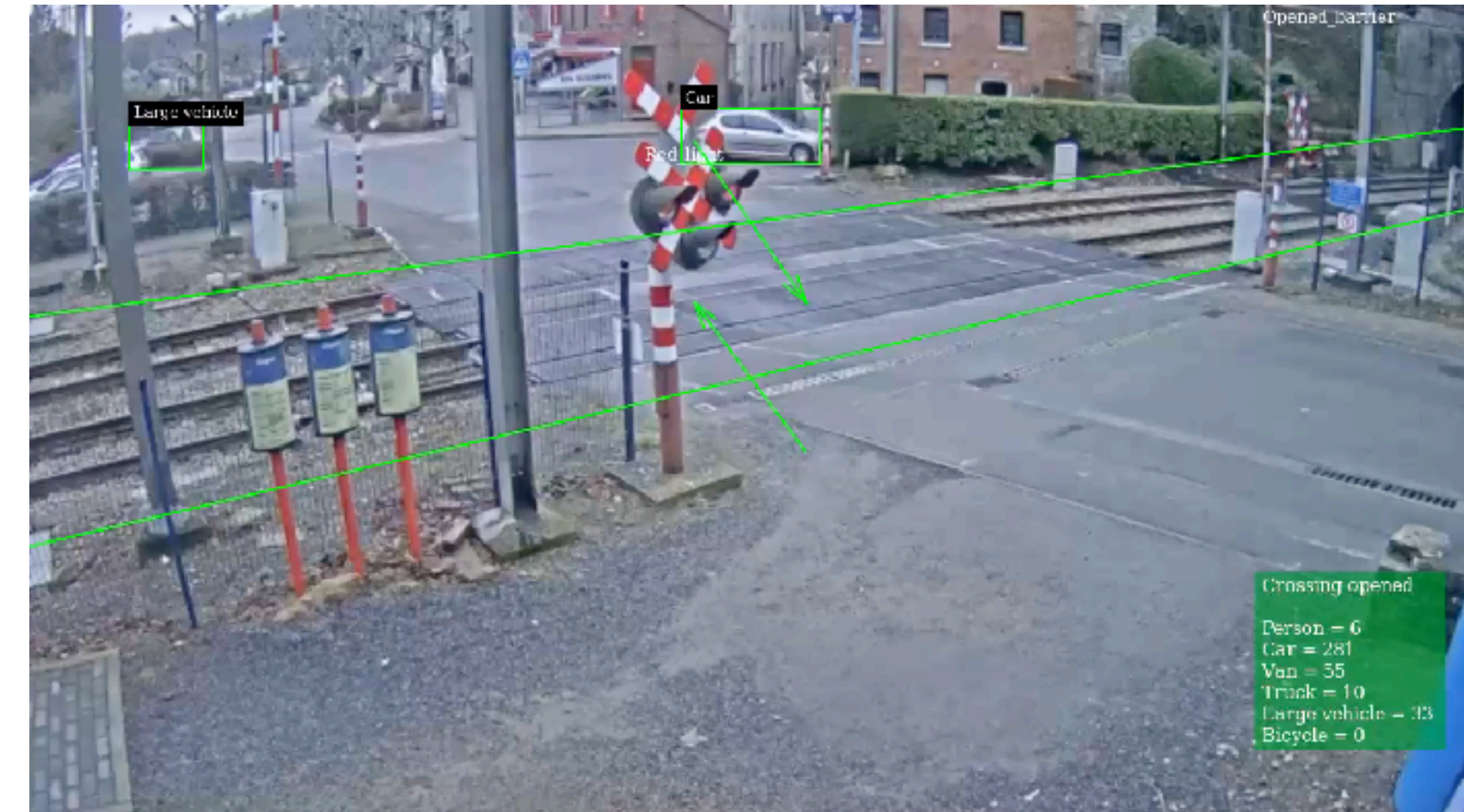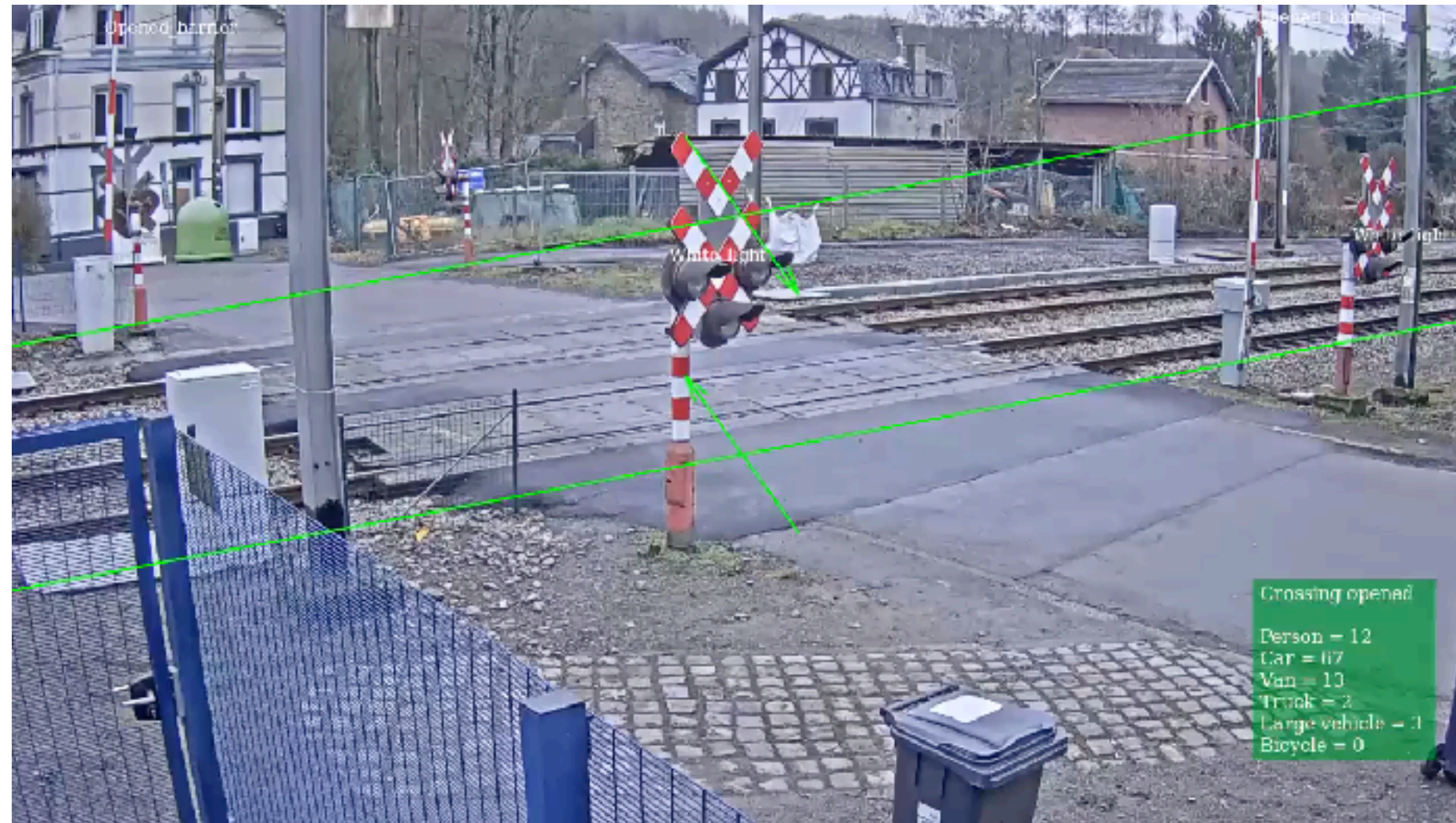Every module has automatic detection features like:
- vehicles (12 different types)
- Persons
- object stop or movement (persons and vehicles)
- Direction of movement (persons and vehicles)
- Traffic lights phases, barriers phases (closed or open)
- Danger zone detection on top of the crossing path (needs 2-3 min from startup)

That list could be complemented. 4 simultaneous detections are possible.

All those features were developed thanks to several deep learning training based upon customer's videos.

Example of complex detection scenarios

Green lines : automatic danger zone detection

In the green box at right bottom : counting and crossing phases

All those operations are fully automatic, without human interactions

Integration with Nice (Cognify) on existing cameras

Ongoing danger zone calculation

Ongoing danger zone calculation (because of snow)

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- AI detection
- Counting
- AI classification
- Danger zone detection
- Traffic lights phases detection and crossing phases
- Detection of passing through if red lights

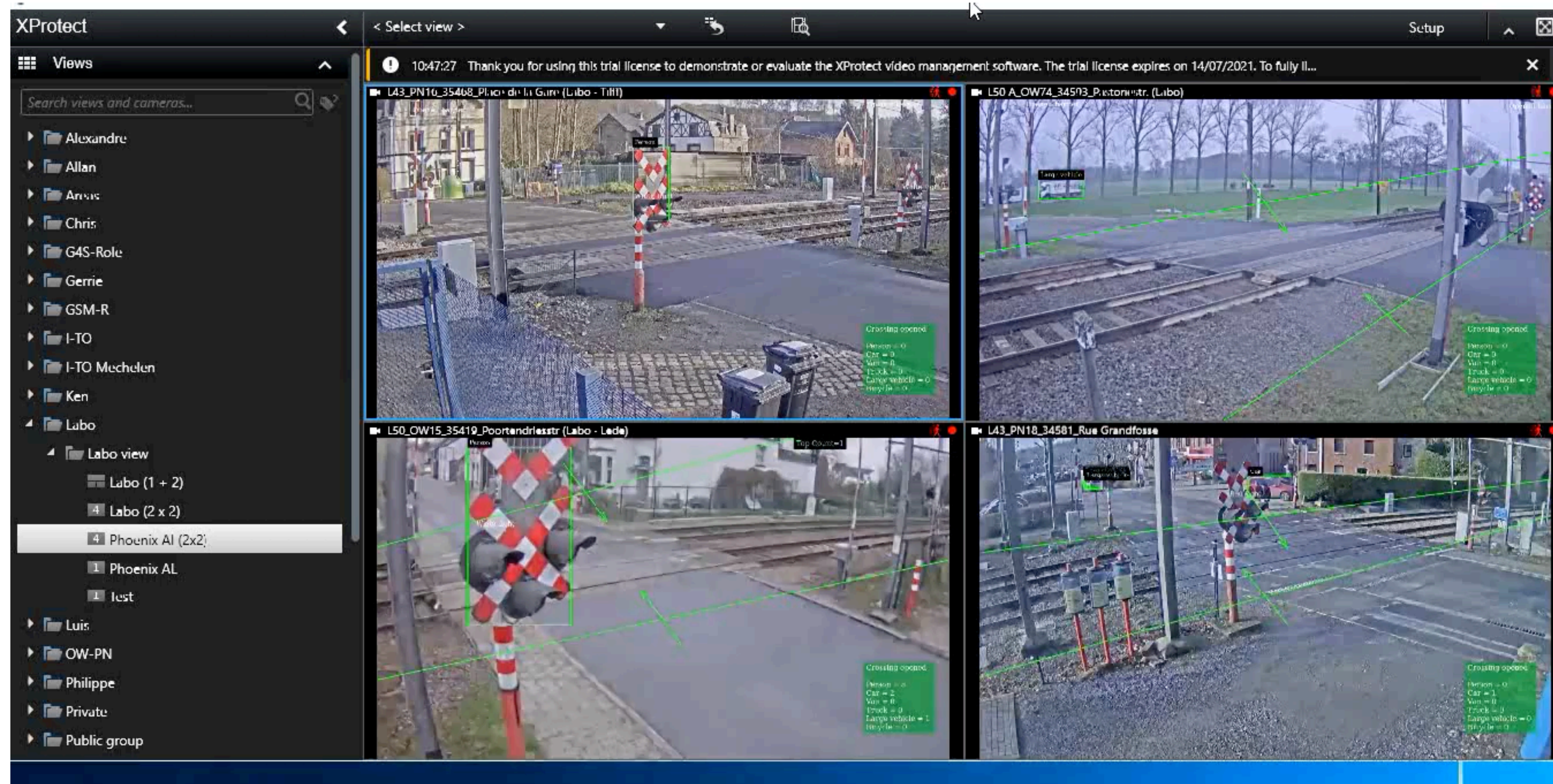Every module is inserted into Nice as a regular camera

Milestone (XProtect) integration on existing cameras

Sm_All

AI detection
- Counting
- AI classification
- Danger zone detection
- Traffic lights phases detection
and crossing phases
- Detection of
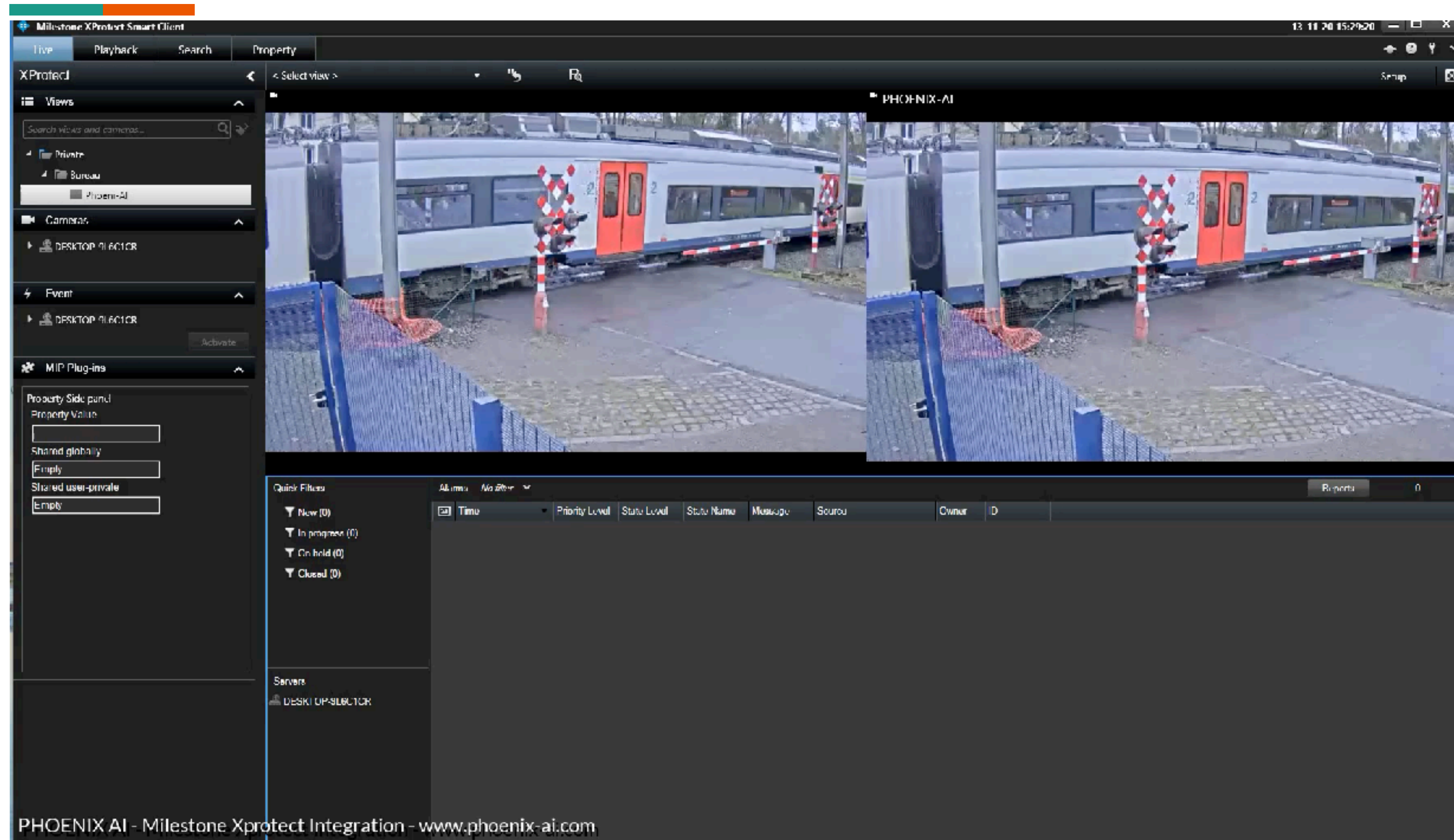passing through if red lights
- Send alerts

Every module runs Milestone Plugin on ARM with Deepstream 5. No extra server needed.

Milestone (XProtect) integration on existing cameras

Sm_All

- Identification of passing through
- Alerts management

Reception of configurable alerts in Milestone

milestone

TECHNOLOGY PARTNER

Thanks

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