



V-MON HISTORY

Creation of a new **Development of a new SIEMA**(Société Industrielle **Creation of a railway Commissioning of** product line of IoT module for a turnout d'Electromécanique infrastructure monitoring **SIAM and SENSOR** product range point machine Appliquée) begins its systems on the sensors activity in design and Eastern LGV. manufacture of relays. **5 febuary** 2006 2010 1994 2020 1949 2018 1989 1999 2008 **Development of Commissioning of LN1** 1st deployment of **Creation of the V-MON** SIAM ST2 with 39 sites **Monitoring product:** SIAM ST3 product line for acquisition & REMI-LSA transmission measurement



V-MON AGENDA

V-MON
Product range

02

V-MONAcquisitions modules

03

V-MONArchitecture

04

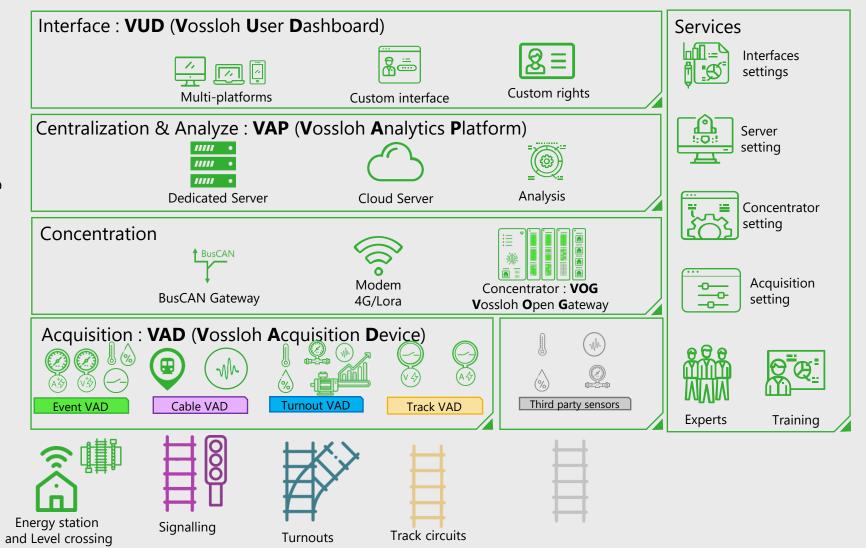
V-MONSuccess stories





GAMME V-MON

V-MON CONTENTS





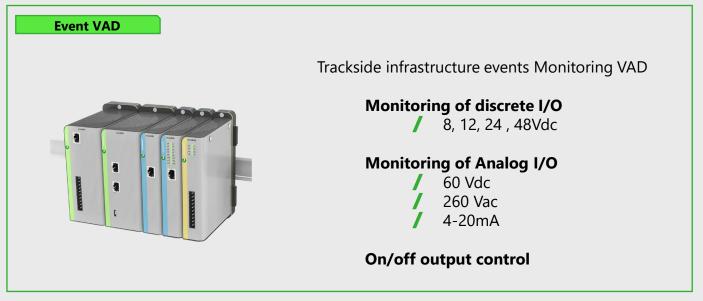
V-MON Range

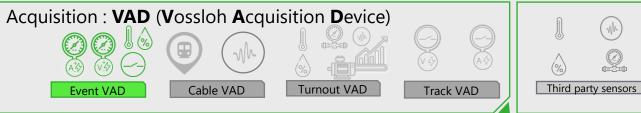


V-MON Product range

V-MON

ACQUISITIONS MODULES













Usage

 (\mathbb{W})

Energy station

Power supply /I/O monitoring (Analog & digital)

Level crossing

/Railway traffic signalling light

/Barrier condition

/Battery level

Barrier breaking

Insulation defects

Traffic detection



V-MON Product range

V-MON

ACQUISITIONS MODULES

Cable theft VAD



Cable Monitoring VAD

Line echo measurement using two modules positioned on both side of cables.

Track circuits

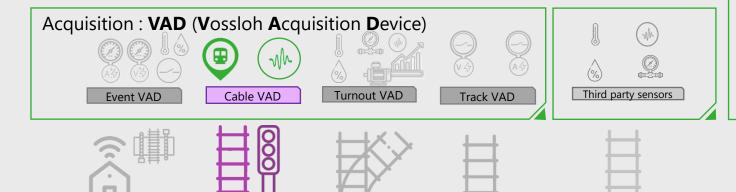
Usage

Cut-off detection

- / Position(s)
- Cable type and length
- / Send an automatic alerts

Emergency call

/ SMS instantly routed to security.



Turnouts



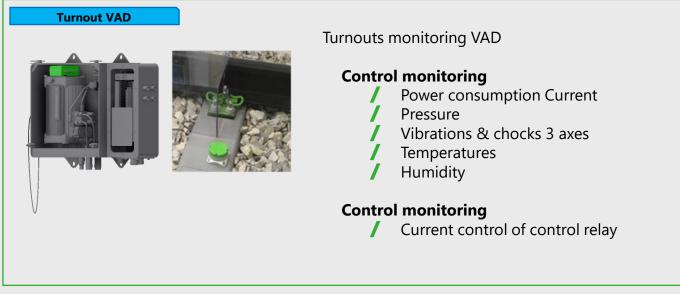
Energy station

and Level crossing

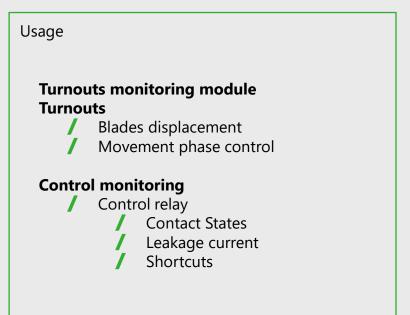
Signalling

V-MON Product range

V-MON ACQUISITIONS MODULES









Energy station and Level crossing







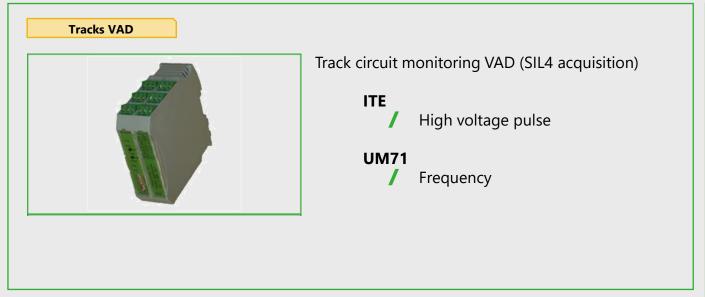


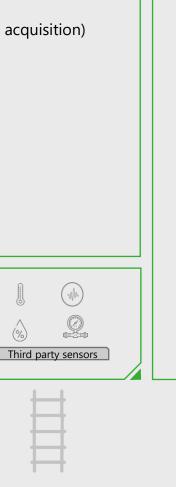


V-MON

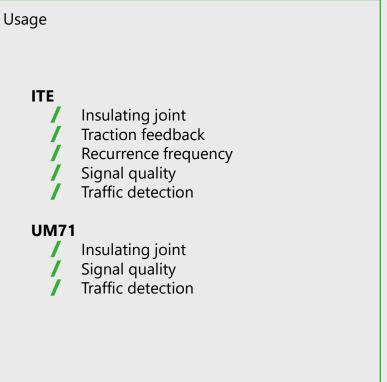
ACQUISITIONS MODULES

V-MON Product range





(W)





Event VAD



Cable VAD

Acquisition : **VAD** (**V**ossloh **A**cquisition **D**evice)

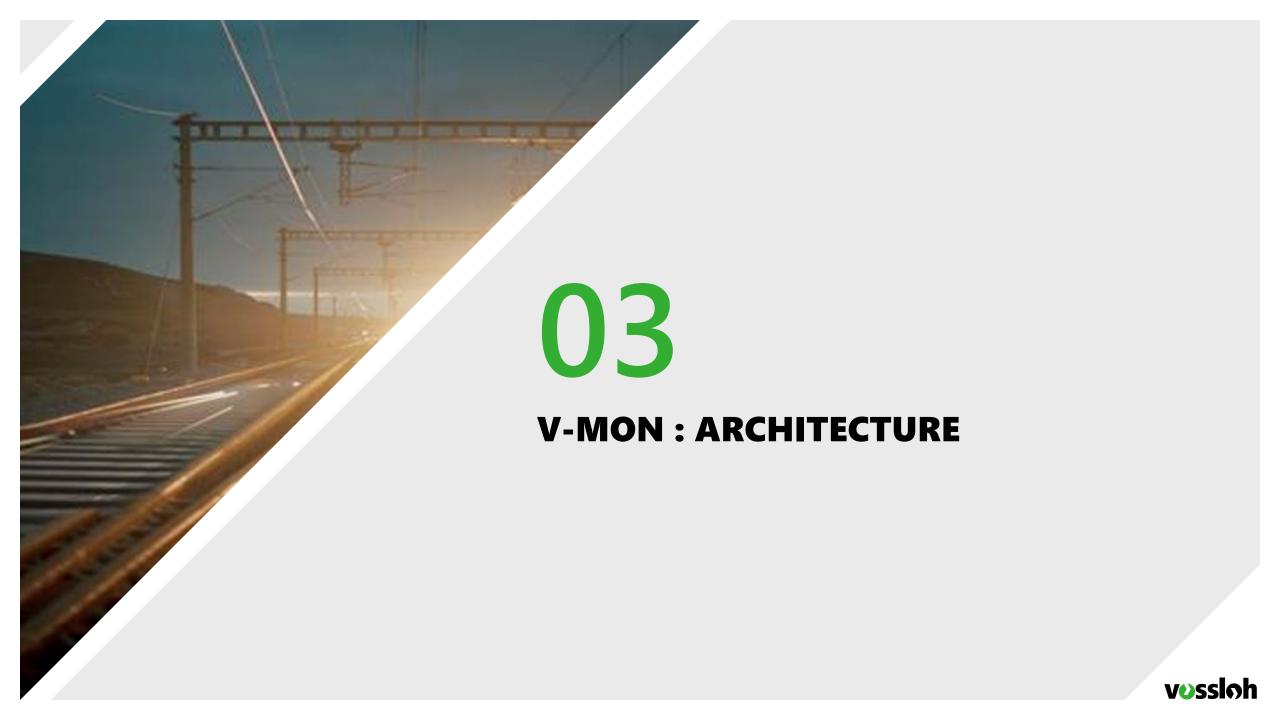


Turnout VAD



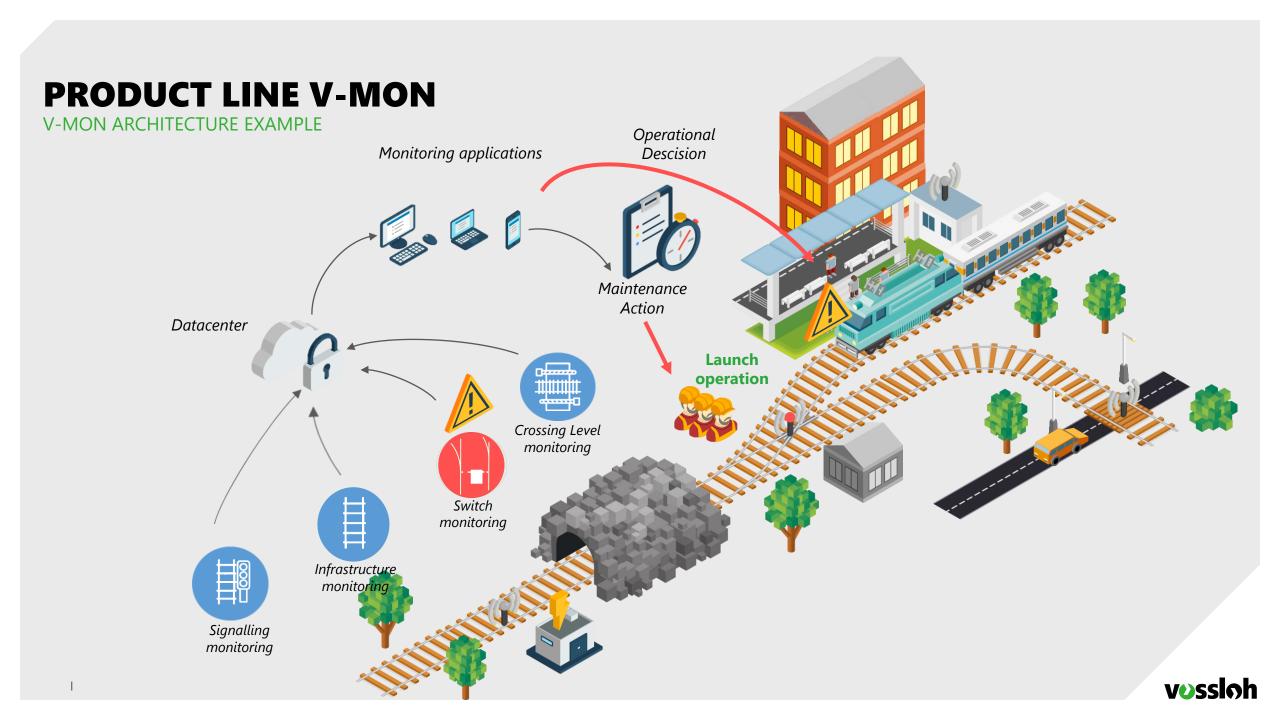
Track VAD





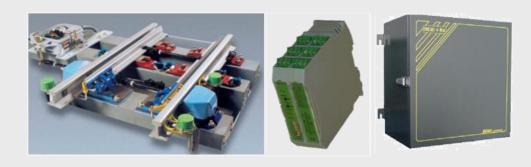
PRODUCT LINE V-MON All-inclusive solution V-MON ARCHITECTURE EXAMPLE Multi-platforms user management **Direct connection on customer SCADA** An AI at your service. Analysis Server Cloud Data Protection SCADA Modem 4G/Lora **Turnout VAD** One centralized solution for all sensors Cable VAD Turnout VAD Track VAD Third Party **Event VAD** Existing Sensors sensors **Turnouts** Energy station & **Turnouts** Track circuits Signalling crossing level Secured & Protected at each step







V-MON SUCCESS STORIES



Turnouts Monitoring:

- 3000 turnouts in France
- / Installed in 3 new private high-speed line
- / Operational in Morocco on the high-speed line
- Experimentation UK

Track circuit Monitoring:

- / More than 300 track circuits in France
- Operational in Morocco on the HSL
- / Experimentation UK

Event Monitoring:

- > 300 000 information followed
- Operational in Morocco on the HSL

Cable Theft Monitoring:

/ Operational in France



SUCCESS STORIES

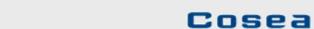


SIEMENS





























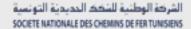






















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