



## PRIME Product line

 A product range dedicated to railway infrastructure monitoring

# PRIME product line

## Predictive Railway Infrastructure Maintenance hElp

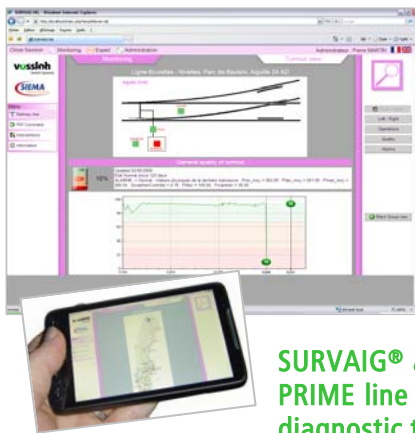
### Remote Event Monitoring

SIAM product provides a large range of data acquisition I/O interfaces able to check in real time information picked up along track, or in any technical or signalling room.

Events and alarms are displayed on monitor and a friendly man machine interface allows operator to manage maintenance actions on monitored equipments.

Energy station, communication devices, signalling panels, signalling equipment, track circuit, level crossing...are some equipment monitored by SIAM.

SIAM is adapted for any kind of railway line. More than 2000 stations on High speed line, secondary line, or Urban line are equipped by SIAM on French Railway company (SNCF).



### Remote Condition Monitoring

SURVAIG® and SURTRACK are two products of the PRIME product line dedicated to monitor switches & crossings and track circuit.

These products detect predicatively trends and tendency of the equipment behavior in order to warn the maintenance operator that something has happened or will happen. SURVAIG® & SURTRACK are developed on a common software kernel and can be easily merged together.

SURVAIG® and SURTRACK's broad range of control system take full advantage of the PRIME line capabilities, including an event recorder, a user configuration tool, a local diagnostic tool, and a web server diagnostic tool.

### Remote Security Monitoring

BTW allow to detect in real time a cut in a cable. The alarm is send in less than 20 seconds to concerning people (police, security team, maintenance team). A dedicated MMI allow to manage alert, localise the cut in a map and exchange between the different teams.

BTW allow to decrease significantly price of a cable theft by reducing traffic lost time and helping security team to arrest vandals.



# A large range of sensors dedicated to railway

In order to be connected on a PRIME System a large range of sensor has been developed:

- Active power supply of the turnout
- Measurement of the switch displacement
- Vibration
- Current and voltage of a point machine
- Cable cut position sensor

These sensors are installed either in technical room or along the track. They can be adapted on customer requirement.

Completely design or adapted for railway applications they are designed for severe environment (NF EN 50125-3).

- ▶ A large product line from sensor to software
- ▶ Predictive diagnose
- ▶ A large range of sensors

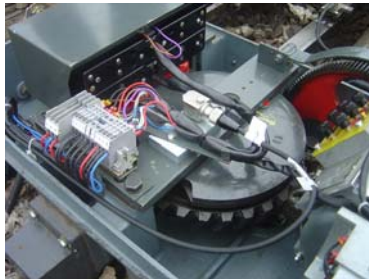
## ▶ AC/DC Power



## ▶ Force



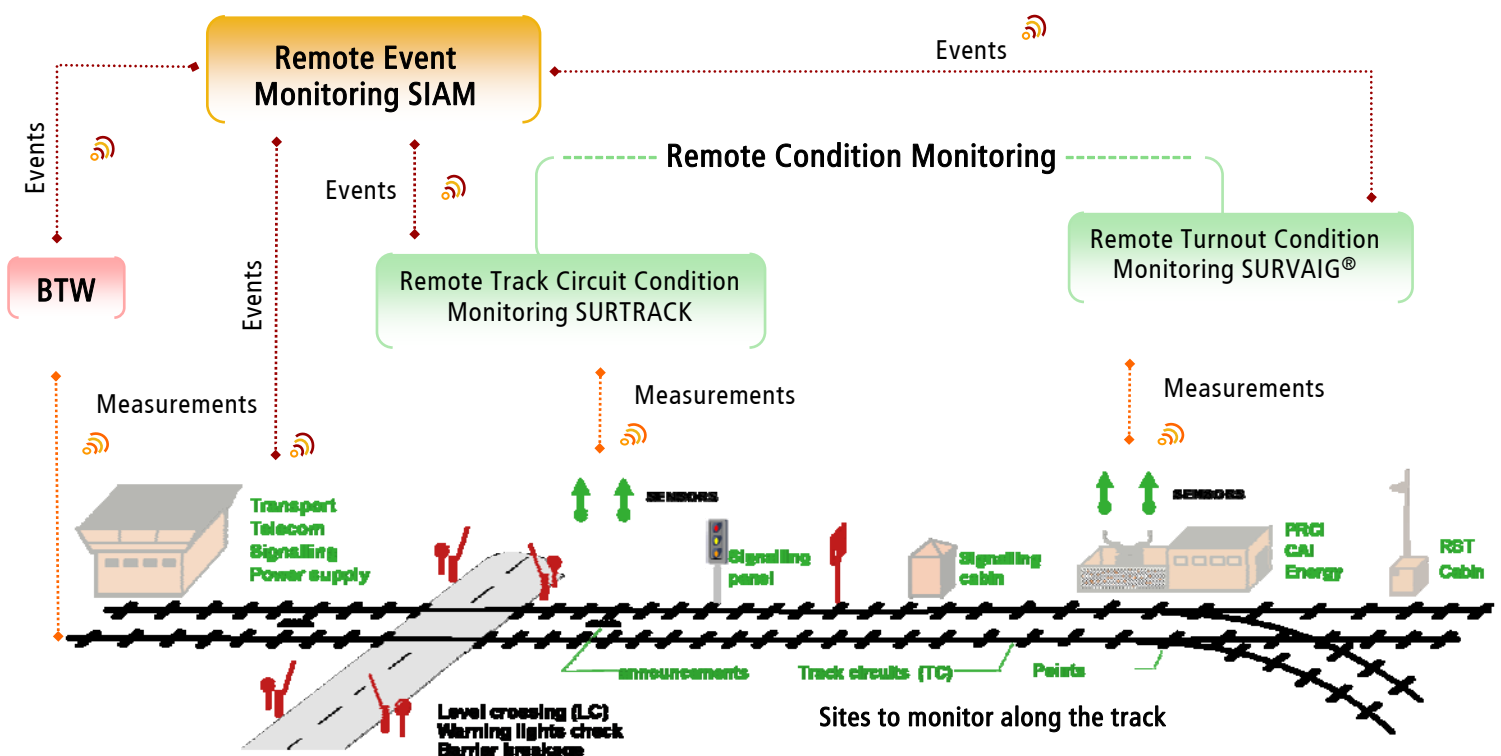
## ▶ Vibration



## ▶ Current detection



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A product range dedicated to event and condition monitoring for railway equipment.

### References

- COSEA/INEO (Tours Bordeaux line France)
- Infrabel (Belgium railway company)
- ONCF (Morocco)
- SNCF (French national railway Company)
- SNCFT (Tunisia)
- TP Ferro (France-Spain)

And several others infrastructure and maintenance Railway companies...

Vossloh Cogifer and SIEMA applications experts are ready to help any railway or urban networks to examine a specific technical and economic solution adapted to their maintenance performance.

**SIEMA applications is a subsidiary of Vossloh Cogifer, world leader in points and crossings.**

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