FieldTrac 6393 CheckPoint – Solution for automatic train supervision
Goals for rail operators

- Increased efficiency
- Reduction of the Life Cycle Costs of rolling stock and infrastructure
- Less labour-intensive
- Reduction in manual train supervision

➡ Technical solutions required
Technical solution (CheckPoint) leads to better and earlier detection of faulty conditions

- Derailed Vehicles
- Blocked brakes
- Hot boxes
- Flat wheels
- Broken axles
- Broken bearing-springs
- Displaced cargo
- Fire
A typical Checkpoint location

- Dynamic Scale
- Hot box detection
- Derailment detection
- Sensors Embedded Linux (SLIND)
- Interlocking Frontend Computer
- IFEC (Concentrator) Debian Linux
- Loading gauge monitoring
  - Fire detection
  - Antenna detection
Checkpoint network solution with the Checkpoint Master Node

The Thales Solution

Checkpoint 1
Checkpoint 2
Checkpoint n

CheckPoint Master Node
Linux Cluster (Oracle Linux)

Train information (from operator)

Service central Operator systems

HMI

Interlocking and train control

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Rail Signalling Solutions

Thales
Quality of Service

- Increase in network’s availability
  - Early identification and/or elimination of damaged rolling-stock
  - Less accidents
  - Less construction work
  - Reduction of Life Cycle Costs of rolling stock and infrastructure

- Fair and transparent pricing
  - Basis for calculating track access charge
  - Introduce polluter-pays-principle

- Necessary for centralized network operation
  - Reduction in manual train supervision

- Less labour-intensive
- Information for various other users
Thank you for your attention!
For further questions please contact
Mr. Roland Stadlbauer
roland.stadlbauer@thalesgroup.com

www.thalesgroup.com