Managing the assets

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What are assets?

- In ICT ‘ASSETS’ are the set of methods and technologies that implement the transmission, the reception and processing of information.
- Assets are investments made by the Railways:
  - Telecommunication Network
  - GSM-R
  - LAN
  - Telephone
  - PBX
Managing complex and mixed infrastructures

- the rapid evolution of Electronic Support Systems and Telecommunication Infrastructure requires a
  INTEGRATED MANAGEMENT and OPERATION
  … of “mission critical assets”
- create synergy between heterogeneous systems
Operation, Administration and Maintenance

- OA&M are classical methods for control and supervision of telecom networks
Operational Support Systems

- OSS provides a unified operational view of the network equipment
- OSS supports processes such as
  - maintaining network inventory
  - provisioning services
  - configuring network components
  - managing faults
Operational Support Systems

• Tailored OSS solutions can exit from the “classical” Telco space and cover specific customer requirements like Railways

• The OSS Solution is made of the following modules:

1. Alarm Handling & Root Cause Analysis
2. Topology & Network Management
3. Network Inventory System
4. Trouble Ticketing System
5. Service Management
OSS for Networks and Services
OSS solutions for Railway

Selex ES OSS systems are addressed to:

- improving the User Experience by optimizing quality of service
- consolidating OSS solutions and systems to reduce OPEX and TCO
- enabling Operators to supply complex, converging services running highly dynamic processes
- obtaining a highly integrated OSS environment that can deliver information on the real status of network resources and services
M40oss - Selex ES Operations Support Systems

• M40oss is the Selex ES OSS
• easily customizable for railway telecommunication networks realized in any technology, both transport and access, with national extension which consist of many hundreds of sites.
Case study: ONM100

- ONM100 is the solution realized for the new Italian High Speed Train ETR1000
- ONM100 is scalable EM that can be integrated with OSS M40
- ONM100 is based on client-server architecture
Logical level ONM100
Network Elements of PIS&CCTV
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Thank you