Telecom Network Inventory Management System is a product that enables end-to-end management of multi-vendor multi-technology networks. Underlying technology is General Electric [GE] Network Inventory Product Portfolio. Customers which operate voice and data, cable TV, cellular networks use this product portfolio to manage and design their networks in hundreds of countries. British Telecom (UK), Deutsche Telecom (Germany), Telecom New Zealand, Jaztel (US), Genuity (Australia) are just some examples of these customers. Products and services in this area are expanding continuously to serve more customers in global communications industry. Infotech is not only distributor of GE network inventory products but also enhances the product to fit Turkish communication network requirements.

**Applications**

- **Plan, design & build**
  - The planning and engineering process is supported by digital mapping
  - Network modelling of the entire connected network (inside & outside plant)
  - Network design tools speed and simplify the design process.
- **Strategic service planning and activation**
  - Integrated physical and logical models of the network enable operators to link network build to planned service offerings
  - End to end network paths, with exact representation of network resources, can be viewed for provision of new services
- **Fault management & customer care**
  - The Network Inventory can be referenced by network fault management systems to enquire about the exact location of alarms from malfunctioning equipment.
- **Asset maintenance and management**
  - Accurate data enables operators to manage and maintain their assets, reducing unnecessary capital outlay.
- **Targeted marketing**
  - Spatial analysis of network data combined with customer demographic data enables operators to plan network build to areas of highest revenue potential and conduct marketing campaigns with customers closest to the network.
Advantages

- Unique telecoms solutions to document and model:
  - physical networks
  - logical services
- Providing clear business benefits:
  - improved productivity
  - streamlined network engineering
  - efficient network maintenance
  - accurate service allocation
  - fast customer provision
  - accurate network data
- Unlocks business value by:
  - Integrating the customer and the network, enabling operators to plan network build into areas with the highest density of target customers.
  - Combining inside and outside plant to give a complete, end-to-end view of the connected network, with support for equipment from multiple vendor sources.
  - Providing an integrated model of the physical network and the circuits and services running over it, supporting multiple telecoms technologies.
  - Providing data to other OSS applications supporting operations such as service assurance and service provisioning.

Modules

- Smallworld core spatial technology: core GIS technology
- Physical Network Inventory: Physical Network Inventory models ducts, underground and overhead cables, street cabinets, manholes, splice closures, buildings (including floor plans), racks and cards, right down to port level – the entire, end-to-end connected network.
- Logical Network Inventory: models the logical circuits that run over the physical network. Logical Network Inventory is a tool for planning and allocating bandwidth across a wide range of telecoms technologies – PDH, SDH, SONET, ATM, Frame Relay, and DWDM.