

# Think 360°.

## Efficient resource inventory management for NGN.

**Fibre-to-the-home and fibre-to-the-curb are on the rise with Telco operators implementing new broadband access networks. IRONMAN resource inventory management is a flexible and efficient solution to manage area-wide optical networks.**

### The challenge.

New customer-centered media-rich Telco services like IPTV fuel the demand for broadband. As a consequence FTTx technology has rapidly regained interest. However, optical networks are tricky to manage, especially with respect to inventory and property management. To keep track of the millions of holders, interface modules and ports may easily become a nightmare. If inventory data are incorrect, service management is in severe trouble. It is difficult to send out field technicians to fix a reported problem. And of course, an accurate inventory management system is the prerequisite for the optimal utilization of your costly optical network infrastructure.

### T-Systems solution.

As an integral part of Deutsche Telekom Group, T-Systems has extensive knowledge and experience in the telecommunications and media in-

dustry. We offer the full scope of plan-build-run services to design, implement, maintain and manage your inventory management solution for NGN.

IRONMAN resource inventory management offers a variety of functions for the

- comprehensive support of the planning and provisioning process
- consistent management at the element, network and service level
- optimal utilization of network resources
- up-to-date documentation of the network-inventory

### IRONMAN.

IRONMAN resource inventory management solutions exhibit unique features for the efficient management of multi technology networks with a special focus on optical networks.

### Comprehensive support of the planning and provisioning process

- Network equipment

IRONMAN resource inventory management is the central data repository for all pieces of equipment, used in the optical network infrastructure, ranging from routers to holders, from cabinets to



Business flexibility **T** · · Systems · · ·

fibres, points and pins. The creation of network equipment in the database is supported by templates allowing a semi-automatic data entry process. IRONMAN keeps accurately track of changes in the network infrastructure and generates configurable up-to-date reports. A service-based interface with GIS-solutions is implemented.

#### ■ Network connections

All physical connections are managed by IRONMAN resource inventory management. Routes in the network are searched automatically, with the help of an intelligent dynamic routing algorithm, which explicitly takes care of the spare equipment. IRONMAN then creates the input for the field service and interfaces with the workforce management system. A special topic is the support of a mobile client application which can be used by the field technicians either in an offline or online mode.

### Consistent management at the element, network and service level.

IRONMAN resource inventory management manages multi technology network equipment including optical and copper-based networks, IP and SDH/ATM transmission technology. The resource inventory management functionality can be smoothly integrated with service inventory management solutions and other applications of an existing OSS landscape.

### Efficiency.

IRONMAN resource inventory management assures an accurate up-to-date view on the total network equipment and is the basis for an optimal utilization of all network resources. It supports the operator in the planning and provisioning process by means of intelligent algorithms and automated processes. As IRONMAN resource inventory management is based on SOA and the

datamodel is compliant with TMF standards, the integration/interfacing with other applications, like service inventory management, GIS-systems or workforce management is straightforward.

IRONMAN resource inventory management is a high availability solution and can be installed on different system platforms.

### Best practice at Deutsche Telekom.

IRONMAN is operational at Deutsche Telekom to manage the access and aggregation networks, which includes optical as well as classical equipment. The network has more than 600.000 nodes, 3,6 mio cable wires and 46 mio points and pins. Some 2000 users are using the IRONMAN platform for network element, network and service management.

### Think 360°.

Are you interested to find out more about T-Systems and our Think 360°-OSS solutions? Visit us at TeleManagement World, Nice, 22-24 May 2007, hall 2, booth 107. We will be happy to share our experience with you.

### T-Systems.

T-Systems is Deutsche Telekom's business customer brand. As a leading European and global player, T-Systems delivers ICT-solutions that enhance companies flexibility and competitiveness. The company posted revenues of € 12.6 bn in 2006.

The portfolio includes the operation of ICT infrastructure, hosting process-related applications, systems integration and management of entire business processes.

Questions? Wishes? Information?

Call us or visit us on the Internet.

We'll advise you gladly.

Publisher:

T-Systems Enterprise Services GmbH

Industry Line Telecommunications,

Media & Utilities

Business Development

Am Propsthof 51

D-53121 Bonn

Contact:

E-Mail: [Telco@t-systems.com](mailto:Telco@t-systems.com)

Internet: [www.t-systems.com](http://www.t-systems.com)