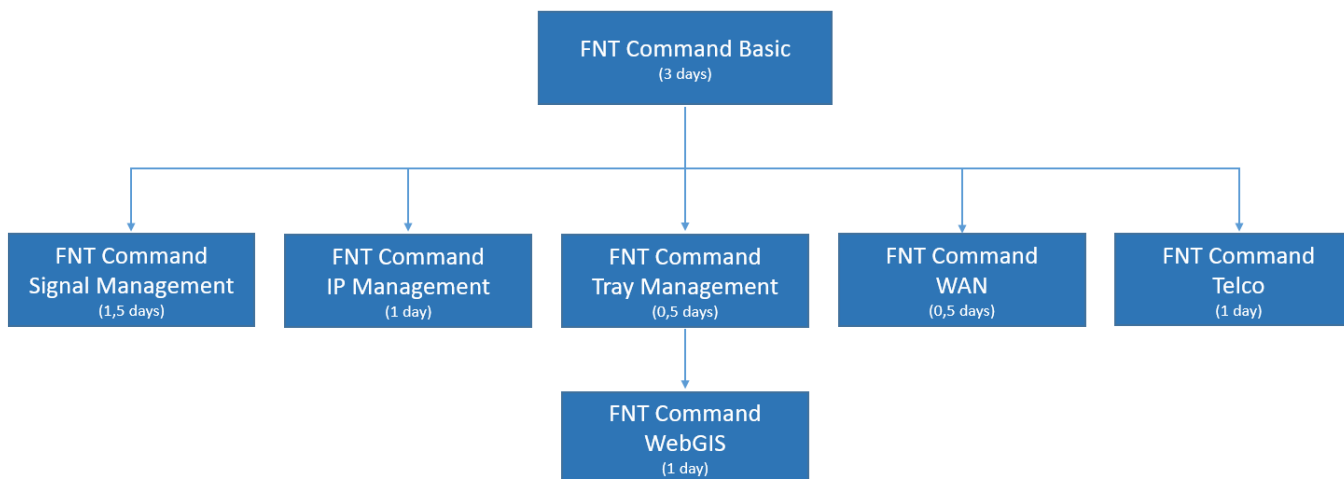


## Training Path FNT Telecommunication Network Ressource Inventory Management



## Training Path: FNT Telecommunication Network Ressource Inventory Management



## FNT Command Basic

The handling of the CI library (component library, e.g. distribution cabinets, assembly units, device and cable types, and the management of the real estate constitute the focal area of this course. The course participant learns practice-oriented the form of the physical infrastructure, the cabling of the CIs (components), and the schematic representation of the cable connections. The realistic representation of the components supports the participant and so greatly simplifies the equipping of the switch cabinets. Because all elements in the database can be called as ACTUAL or PLAN instance, individual training exercises further support these procedures. The wide range of report possibilities provide information for an efficient management of the IT components.

### **Content overview:**

Real estate – structure of a zone structure over the levels Campus, Building, Floor and Room, as well as the Topzones

CI Library – structure and use of the component library

Configuring the individual CIs, adding file attachments, forming logical groupings, links to accessories

Management of switch cabinets with objects from the CI Library

Assembly unit management

Object management – search conditions, linked queries, data export

Cabling

Creation of logical connections for devices and directors via the Connection Matrix

Output of assignment lists and signal tracing, graphical representation via the Net Spider program section

Inventory management with warehouse management and inventORIZATION

Creation of work instructions (mounting orders, patch and relocation lists) via the Planning program section

### **Course duration:**

3 days

## FNT Command Signal Management

### **Prerequisite: FNT Command Basic**

The various transmission technologies with signal paths and services are represented in the Signal Management module. Services can be managed manually. In addition, the phone number management provided for phone services allows the services to be managed easily. The comprehensive management of services also includes the acquisition and management of routes (signal paths), device data (e.g. phones, PCs, active components) and personal data (users). The routing functions allow the associated routes to be documented quickly and easily as a service.

### **Content overview:**

- Management of the service types, E164 definition and persons in the Signal Management Administration.
- Creation and management of services
- Planning services
- Creation and management of signal paths
- Planning signal paths
- Creation and management of phone numbers and phone number blocks in the phone number management.
- Interconnection of physical and logical routes via the routing functions (manually or with autorouting)
- Querying data using reports

### **Course duration:**

1.5 days

## FNT Command IP Management

**Prerequisite: FNT Command Basic**

The content of this course concerns the IP Management handling (as standalone solution), as well as the possibilities of linking to existing CIs.

**Content overview:**

Management of IPv4 and IPv6 networks with the associated attributes

Modification of existing IP networks

Creation and definition of network areas, including the assignment to CIs

Assignment of IP Alias

Extended IP network search

Assignment of IP addresses by linking to CIs

Management of VLAN, incl. assignment to CIs

Adapted report and analysis capabilities

Excel import functionality for IP data

**Course duration:**

1 day

## FNT Command Tray Management

### **Prerequisite: FNT Command Basic**

In the FNT Command Tray Management course you learn how to represent a tray route that leads over nodes (e.g. shafts). The individual steps for creating and connecting nodes are explained using a practical example. The assignment of cables is also explained in the course.

### **Content overview:**

Introduction to an integrated practical example

- Definition of the properties of nodes

Creating a node

- Editing nodes in the Shaft editor

Assignment of an object to a node

Creating a tray segment

Creating a duct between the nodes

Placing a new cable at two patch panels

Assignment of a cable to a tray route

### **Course duration:**

0.5 days

## FNT Command WebGIS

### **Prerequisite: FNT Command Basic**

In the FNT Command WebGIS course you learn how addresses, and the infrastructure of nodes (shafts, distributor location) and trays can be created and edited on digital maps. Cables are assigned to the trays, whereby the tray structure serves as basis for the cable routing representation. In particular, the close interaction of Tray Management and WebGIS must be considered. Cable routes are so not only represented schematically in network plans, but also shown true-to-scale directly in digital maps. The visualization of the tray routes is made in the WebGIS Interface.

### **Content overview:**

Digitizing addresses, nodes, trays and tray routes on a map

Assigning cables to the digitized tray routes

Structure of the tray management (node, segment, duct)

Representing documented cable routes on the map

### **Course duration:**

1 day

## FNT Command WAN

### **Prerequisite: FNT Command Basic**

Cable data and services in the corporate network implemented between locations with one or more providers are represented in the Command WAN module. A differentiation is made between base connections (trunks), base services, traffic classes and services. The management of customers and provider information is integrated in the program.

### **Content overview:**

- Documentation of trunks, services and end services, including the assignment of contracts and Service Level Agreements
- Management of the Quality of Service
- Assignment and management of providers, customers and contact persons
- Predefined queries/reports

### **Course duration:**

1 day



## FNT Command Telco

### **Prerequisite: FNT Command Basic**

In the transmission technology area, our Telco module represents the base line, the base service and the end customer service. The rules of the most important transmission protocols (e.g. SDH, PDH, DWDM, CWDM, ATM, MPLS, Ethernet) can be stored.

### **Content overview:**

- Management of service master data for connection-oriented technologies (SDH, PDH, C/WDM) and connectionless technologies (Ethernet, MPLS)
- Creation of base services, directly on the resources of the physical network (bearer) or the resources of other base services
- Creation of end customer services on the resources of other base services
- Autorouting to determine passive and active signal paths based on various criteria (bandwidth, zone, devices, planning, ...)
- Management of logical ports for the device master data and for placed devices
- Configuration of physical PTOLPs
- Assignment of persons or organizations, contracts and SLAs to services
- Assignment of QoS and TER instances to services
- Management of functional units (network elements) with the associated attributes and assignments
- Management of products with typical associated attributes and assignments
- Management of preliminary products (leased lines)
- Integrated planning functionality, including patch job
- Flexible query capabilities and reports (e.g. connected services report, device connection)

### **Course duration:**

1 day

## General Terms and Conditions for Trainings Conducted by FNT GmbH

### 1. Scope of Application of the GTC / Severability Clause / Electronic Commerce

1.1. The following terms and conditions ("GTC") shall apply to all - including future - contracts regarding the participation in trainings conducted online, on-site at the customer's premises, or in-house at FNT (hereinafter referred to as "training/s") initiated and / or concluded between FNT and a company within the meaning of § 14 BGB (German Civil Code) (hereinafter "customer").

The general terms and conditions of the customer are objected to. FNT conducts trainings subject to the validity of the present GTC only.

1.2. Should a provision of the present GTC be or become ineffective or unenforceable, then this shall not affect the validity of the remaining GTC.

§ 312i (1) paragraph 1, 2 and 3 BGB, which impose additional obligations upon FNT regarding contracts in electronic commerce, shall be excluded.

### 2. Registration and Acknowledgement of Registration

Registrations must be made in text form. The customer shall be bound to this registration for 21 days. FNT shall acknowledge the customer's participation in the training as soon as possible or refuse it if there are no vacancies.

### 3. Cancellations

3.1. If a training event is conducted exclusively for one customer (on-site at the customer's premises or in-house at FNT), and

- if the training date agreed upon is canceled by the customer up to 28 days before the beginning of the training, then the customer shall pay, against the provision of receipts, only the cost already incurred that cannot be cancelled, for example, for room rental or travel expenses, provided that the customer and FNT agree on a new training date within the next 6 months after the canceled date. If this does not happen,

then FNT shall have the right to withdraw from the training contract and claim as damage a lump sum of 20% of the training fees, including ancillary costs;

- if the training date agreed upon is canceled by the customer up to 27 days or less before the beginning of the training, then the customer shall pay, against the provision of receipts, only the cost already incurred that cannot be cancelled, for example, for room rental or travel expenses, provided that the customer and FNT agree on a new training date within the next 6 months after the canceled date. If this does not happen, then FNT shall have the right to withdraw from the training contract and claim as damage a lump sum of 90% of the training fees, including ancillary costs;

If a training event is conducted for several customers (on-site at the customer's premises or in-house at FNT), then the customer can

- withdraw from the training contract free of charge up to 28 days before the beginning of the training;

- withdraw from the training contract 27 or 14 days before the beginning of the training. However, the customer shall then be obliged to pay 50% of the training fee as lump sum damage compensation to FNT;

- withdraw from the training contract 13 days or less before the beginning of the training. However, the customer shall then be obliged to pay 100% of the training fee as lump sum damage compensation to FNT;

3.2. FNT shall be entitled to cancel a training event in text form until at most 10 calendar days before commencement. FNT shall offer the customer an alternative event. The customer shall not be entitled to any further claims.

### 4. Prices / Terms of Payment

4.1. The prices of the respective price list valid at the registration date for online, on-site or in-house training shall apply.

Prices for in-house training events at FNT shall include the use of the technical facilities and systems, as well as soft drinks and lunch. Travel, accommodation and other subsistence costs of the participants shall be borne by the customer.

In the case of on-site training events at the customer's premises, the customer shall provide the room facilities and meals for the participants and the trainer at the customer's expense. FNT shall be reimbursed by the customer for the travel expenses incurred for the trainer at cost.

4.2. After commencement of the training, FNT shall issue an invoice which is due immediately without deduction.

## 5. Training Location

If no on-line or on-site training at the customer's premises has been arranged, then the training event shall take place in the rooms of FNT.

## 6. Liability

6.1 Liability by FNT for damage caused by simple negligence shall be excluded, unless damage to life, limb or health or the breach of essential contractual obligations is at issue.

6.2 In the event of simple negligence, FNT shall be liable for breach of essential contractual obligations limited to the damage foreseeable at the time of conclusion of the contract, up to a maximum of € 1,000,000.

6.3 Liability under the Product Liability Act shall remain unaffected.

6.4 In all other cases, FNT's liability shall be unlimited unless a maximum liability is stipulated by law.

## 7. Data Protection

Upon the conclusion of a training contract, FNT shall process the following personal data:

name, address, e-mail address and telephone number of the customer,

name, e-mail address and telephone number of the authorized representing bodies of the customer and the employees sent by the customer for training.

FNT shall process this data to the extent necessary for the implementation of the training contract, including obtaining bank and credit report information for a credit check of the customer, issuing an invoice

and carrying out dunning and collection measures. The data shall be deleted automatically when the tax retention periods applicable to that data have expired.

## 8. Set-Off, Right of Retention

The customer shall only be entitled to offset or assert a right of retention where a claim is undisputed or has been legally established.

## 9. Applicable Law, Jurisdiction

The legal relationships between the customer and FNT shall be subject to German Law while excluding the United Nations Convention on Contracts for the International Sale of Goods (CISG).

The exclusive place of jurisdiction for any disputes between the parties arising from or on the occasion of a training event shall be Ellwangen (Jagst), unless a different place of jurisdiction is necessarily prescribed by law.

## Imprint



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