Standardized Software
for Service and Infrastructure Management
Contents

4 | 5  The Challenge
6 | 7  Asset & Configuration Management
8 | 9  IT Infrastructure Management
10 | 11 Data Center Infrastructure Management
12 | 13 Telecommunication Resource Inventory
14 | 15 Cable Management
16 | 17 FNT Command Module and Value Packs
18 | 19 References and About Us
IT and telecommunications are the lifeblood of modern enterprises. Developing and upgrading them is therefore vital for maintaining a competitive edge. However, obtaining maximum benefit and efficiency from your IT and telecommunications infrastructure requires full insight into your resources and options.

The challenges are enormous. IT and telecommunications infrastructures are continuously changing. To roll out and operate IT services reliably, you need to know which capacities and technologies are installed and where – down to the level of individual workstations at a distant subsidiary. And depending on the task, various infrastructure views are needed, from the virtualization layer to the physical component, from the actual state to the planned upgrade.

Ultimately, modern infrastructure management requires a comprehensive, dynamic system. All the information in one place, consistent, up-to-date, available at the push of a button. If you want that too, read on.
FNT Command is a modular, standardized software product for infrastructure management. Based on a coherent data model and a single database, FNT Command supports all tasks involved in managing and planning IT, telecommunications, and network infrastructures. From cabling to configuration, FNT Command delivers total transparency.

This transparency covers the entire lifecycle. The integrated data model supports every process step from documentation through to planning and implementation. FNT Command doesn’t just document the “as is” state, it serves as a planning tool for analyzing, scheduling, and implementing infrastructure changes.

With over 50,000 IT/telecommunications components, our CI library is both comprehensive and extremely powerful. The CIs are stored as objects in the FNT Command database along with their logical relationships, thus facilitating the mapping of configurations and infrastructures. An open software architecture, ETL technologies from FNT, and standardized interfaces to other systems – from ERP to monitoring system – all enhance the usability of infrastructure information in your company.

State-of-the-Art Software Architecture

- Multi-tier architecture with a standardized database and Java-based middleware
- Open API, ETL technologies, and standardized interfaces to other systems
- Workflow support for more efficient processes
- Web front end
- Multi-tenant capability
- Multi-language user interface and database content
- Comprehensive, role-based user management and multi-user capability
- User-friendly interface with high usability

The following pages contain details of FNT Command’s standardized solutions.
When deployed as an Asset & Configuration Management tool, FNT Command provides you with information about all configuration items (CIs) in your IT and telecommunications infrastructure. This enables you to identify each individual component and view all their attributes and relationships. A standardized, dynamically expandable data model holds all the information you need to deliver high-value IT services in line with ITIL®.

Configuration item definitions include responsibilities (ownership) and dependencies for business processes. The ability to analyze processes and the dependencies between CIs allows you to significantly speed up error identification and thus error correction. Thanks to integrated license management and a wide variety of additional cost factors being stored for the CIs, improved cost transparency is an additional benefit.
Solution Features

- Integrated view of all service assets and CIs over the entire service lifecycle, from planning to decommissioning, including historization
- Function support for identifying, controlling, checking, and monitoring all service assets and CIs
- All logical and physical relationships associated with an IT service and service asset/CI are available in their respective representations (actual and planning states)
- Coverage of the entire infrastructure (hardware, software, licenses, contracts, documents) and the interrelationships
- Integrates easily into existing IT environments and provides information on all relevant ITIL® processes (e.g., incidents and problem and change management)
- Integrated workflows (e.g., automated job management)
- Provides all core information for automated service provisioning
- Storage, software, and application management
When deployed as an IT Infrastructure Management tool, FNT Command enables management of all IT assets from various perspectives. Every individual aspect, such as software, licenses, and hardware, can be covered using a single product. FNT Command thus forms the basis for comprehensive network, server, workstation, and software management, providing you with a 360-degree view from both the technological and business standpoint.

A library containing over 50,000 configuration items (CIs) is available for graphical rack, server, power, and cabling planning, thereby accelerating planning and documentation. Whether you are planning your physical network with all its many active and passive components, upgrading your servers and equipment, assigning IP addresses, or expanding a network, FNT Command always provides the necessary transparency.
Solution Features

- Efficient analysis and planning of the IT environment thanks to an integrated component library containing over 50,000 active and passive IT components depicted in a photo-realistic manner
- Terminal device and server management with evaluation of logical relationships
- Integrated license and contract management
- Planning and documentation of modern server environments, including physical and virtual servers
- Representation and management of physical and logical network structures, including IPv4 and IPv6 address management, WAN, VLAN, and WLAN management
- Open standard interfaces for mass and real-time data
- Graphical cabinet editor
// Data Center Infrastructure Management

Increase the efficiency of your data centers.
Achieve total control of your data center resources.

From the building infrastructure (power, cooling, floorspace, etc.) and IT infrastructure (networks, servers, storage, etc.) down to the processes and services (software, applications, services), FNT Command enables a comprehensive, integrated view of your valuable data center resources.

FNT Command is a field-tested solution with proven functionality for capturing information, monitoring via live power consumption and temperature values, planning, and operating the entire data center. Analysis and prediction of future consumption based on the FNT data model allows you to implement an energy-efficient data center.

Our partnerships with a range of providers in the data center arena, such as Future Facilities and RF Code, support comprehensive use cases and application options for continuously optimizing your data center.
Solution Features

- Detailed capacity, power, cooling, and space planning, including 3D footprint
- Real-time power and temperature data
- Detailed rack, server, power, and cabling planning
- Precision planning and simulation of modifications (including information about power consumption, floor structure, rack weight, etc.)
- Integrated order management workflow for supporting day-to-day install, move, add, and change processes
- Dashboard-based analysis of important data center metrics
- Open interfaces to other monitoring, accounting, and simulation systems (via API, IPMI, and SNMP), etc.
Telecommunication Resource Inventory

Improve the management of your network resources in the OSS.
Boost efficiency and customer satisfaction.

Used as a Telecommunication Resource Inventory, FNT Command provides the foundation for all planning, engineering, service fulfillment, and service assurance processes. The available tools are based on a comprehensive database and include a graphical switch cabinet editor, netspider, and geo-referenced representations (WebGIS).

A central repository brings together all the relevant information, from the physical network through the logical network to the end-customer services. Back-office systems are supplied with network information via standardized interfaces. FNT Command thereby forms the basis of a modern OSS/BSS architecture.

Solution Features

- Seamless integration across all description levels, from physical network to end-customer service, with an end-to-end view
- Provides information on all relationships between resources, plus data on software applications, customers, and additional associated information
- All types of line-based and wireless network technologies for transmission, access, cell phone, and cable networks and for satellite and radio/TV broadcast networks, such as OTN, SDH, PDH, SONET, WDM, ATM, MPLS, Ethernet, IP, VPN, xPON, FTTx, xDSL, HFC, WiFi, radio relay systems, and others
- Clearly structured documentation and management of connections and services throughout the entire network
- Auto-routing functionality with extensive routing criteria and plausibility checks
- Geo-referenced representation of networks (WebGIS integration)
- Management of leased lines and dark fiber
Schematic representation of the bearer connections in a telecommunications infrastructure

Schematic representation of network and connections between different data centers for planning network capacity

Graphical representation of the hierarchical structure of telecommunications services for analyzing and documenting physical and logical service layers
Cable Management

Get comprehensive insight into your cable and network infrastructure.
Base your planning on seamless documentation.

FNT Command is the world’s most comprehensive solution for cable management. All types of topologies and technologies can be geo-referenced or schematically represented. Your cable and network infrastructures are rendered completely transparent – from splice plan to signal tracing. The comprehensive FNT data model enables inside plant management of IT networks and outside plant management of telecommunications and broadband networks (for example, FTTx) in a wide-area, city, or local loop network via a central database.

No matter how complex or heterogeneous the network infrastructures are, all information is linked and can be evaluated in FNT Command. When incidents occur, troubleshooting is faster, and your decisions about wiring cables to services can be based on hard facts. FNT Command offers comprehensive functionality, including tray management, intelligent routing mechanisms, junction box and splice planning, and capacity planning up to the glass fiber layer, for supporting the entire process from planning and provisioning through to documentation of your cable and network infrastructure.
Solution Features

- Comprehensive graphical documentation and planning of entire cable routes, including all nodes, trays, tray sections, and ducts
- Media-independent cable planning down to the level of individual glass fiber assignments, including junction boxes and splice plans
- Comprehensive auto-routing functionality
- Signal tracing across all devices and cables in both actual and planning views
- Powerful planning and workflow functionality with plausibility checks and routing functions
- Geo-referenced representation of networks (WebGIS integration)
- Visualization of all cable routes using schematic network representations
FNT Command features a modular approach to the provision of packaged software. The functional elements, implementation services, and training course are all available as clearly defined modules at fixed prices.

**C base**
The C base module incorporates basic functions that are necessary for using and administering FNT Command.
- Real estate/zone management
- CI libraries with more than 50,000 predefined components
- Master data administration
- Access management for user administration
- Entity manager for flexible database expansion
- Workflow engine
- Planning
- Lifecycle management
- Accessory object and CI management

**C line**
C line is the module for managing physical and logical network structures. All assets can be linked to each other in order to create seamless transparency across the network.
- Cable descriptions (including additional information, such as lengths, attenuation, material, etc.)
- Tray documentation
- Signal tracing
- Switch cabinet representations
- Schematic network representations and netspiders
- Geo-referencing (WebGIS)
- Connection matrix
- Inventory management
- Splice plan and junction box management
- Tray management

**C logic**
C logic contains modules for handling various services as a basic service or an end-customer service. In order to maximize the scalability and flexibility of FNT Command, the software elements are provided separately in C logic.
Based on twenty years of rolling out and integrating FNT software, we have identified a proven best-practice approach for almost every application scenario. Accordingly, we can offer standardized service modules for implementation and operation at a fixed price.

Areas covered by FNT ValuePacks include: data consolidation, managed services, third-party system integration, method-based product definition, and interface customization.

These packages are complemented by an extensive training program. Three-day basic training courses are available for learning about the basic functions of our software, while additional training is offered for specific areas of expertise and modules.

Users of FNT Command who wish to outsource setup, operation, and integration of the software in whole or in part also have the option of working with certified FNT partners.

Results matter.

C gate
C gate is used to provide IT tools and software products from leading vendors via corresponding interfaces.

FNT Staging Area
FNT also offers a staging area with a visual editor to provide interfaces to different systems without the need for programming, thereby facilitating data exchange with FNT Command. The FNT staging area is an ETL (extract, transform, load) tool that makes it possible to merge heterogeneously structured data from a wide variety of systems, transform it, check it based on the specifications and rules of the target system, and then transfer it to FNT Command. This greatly facilitates data import into FNT Command and also ensures a high degree of standardization is achieved.

As part of FNT Command’s open architecture, C gate and the FNT Staging Area make it possible to integrate tools and software products from leading IT/telecommunications vendors via corresponding interfaces: DCM Integrator powered by Intel, VMware vCenter, Infosim StableNet®, MS Visio, MS SCCM, Cisco Prime, telephone systems (SEN HiPath Management, Alcatel telecommunications interface), and others.

An API (application programming interface) allows additional integration flexibility.
// References

Automobile Industry
- Audi
- BMW
- Daimler
- John Deere
- Norma Group
- Porsche
- Schenck
- Volkswagen

Banking and Insurance
- Bausparkasse Schwäbisch-Hall
- Bayerische Landesbank
- Commerzbank
- Deutsche Bank
- Deutsche Börse
- Deutsche Bundesbank
- ERGO Versicherungsgruppe
- Erste Group Bank
- Finanz Informatik
- First Data
- gkv Informatik
- HSH Nordbank AG
- HUK Coburg
- ITSCare
- Provinzial Versicherung
- Raiffeisen Informatik (Wien)
- Uni Credit Group
- WWK Versicherungen

Chemical/ Pharmaceutical Industries
- Bayer
- Boehringer Ingelheim
- Evonik
- Merck KBaA
- Sanofi

Energy
- EnBW
- Energie Steiermark
- E.ON
- Gazprom
- IEC Israel Electric Corp.
- RWE Power
- Shell
- Transnet BW
- UNECO (Moskau)
- Wien Energie

Airports
- Flughafen Düsseldorf
- Flughafen Hamburg
- Flughafen Stuttgart
- Flughafen Hannover
- Flughafen Köln/Bonn
- Flughafen München
- Fraport Flughafen Frankfurt

Hospitals
- Donau-Ries Klinik
- Inselspital Bern
- Klinikum Darmstadt
- University Hospital Aachen
- University Hospital Munich
- University Hospital Ulm

Media
- Arvato (Bertelsmann)
- ARD
- Axel Springer
- Heinrich Bauer Verlag
- ProSiebenSat.1
- SWR
- WDR
- ZDF

Manufacturing
- Airbus
- Jungheinrich
- Krones
- MTU
- Osram
- Siemens
- Voest-Alpine
- Wincor Nixdorf

Telecommunications and IT Service Providers
- Alcatel Lucent
- Atos IT Solutions and Services
- Beltelecom (Belarus)
- Controlware
- CoreSite
- Etisalat
- Fujitsu TDS
- Hewlett-Packard
- H3G
- IBM
- I.T.E.N.O.S.
- Kartel
- Liberty Global
- Media Broadcast
- Pfalzkom MANET
- RTRS
- Swisscom
- STC Saudi Telecom
- TelIX
- T-Systems
- unitymedia kabel bw
- Versatel
- Vodafone D2

Public Institutions
- Bavarian State Agency for Statistics
- Bavarian State Office for Taxes
- Berlin Police
- Bundespolizei
- Canton Aargau
- City of München
- City of Zürich
- City of Dortmund
- City of Stuttgart
- Dataport
- Deutsche Rente
- Dubai Customs
- EKOM 21 - KGRZ Hessen
- German Federal Employment Agency
- German Armed Forces
- Federal State of Thuringa
- United Nations

Mail Order and Bulk Mailers
- EDEKA
- Eurogate GmbH & Co. Kgaa
- Home Shopping Europe GmbH
- Otto

Universities/Research Establishments
- Deutsches Elektronen-Synchrotron
- Forschungszentrum Karlsruhe
- GSI Darmstadt
- Montclair State University (USA)
- RWTH Aachen
- University of Bern
- University of Hamburg
Headquartered in Ellwangen, Germany, FNT is a leading provider of integrated software products for documenting and managing IT and telecommunications solutions and data centers. FNT’s innovative FNT Command software suite has been deployed worldwide since 1994 as an OSS/IT management solution by telecommunications service providers, enterprises, and governmental organizations, with the number of users exceeding 25,000 across a client base of over 500 customers worldwide.

These include a wide range of well-known organizations in various sectors, including the automotive industry, banking, insurance, chemicals, energy management, airports, hospitals, the media, manufacturing, telecommunications, IT service providers, and public institutions. More than half of all DAX 30 companies are FNT customers, deploying FNT Command as their central platform for optimizing and industrializing IT and telecommunications.

FNT is an independent, owner-managed company with a strong track record of innovation. All products are developed in close cooperation with customers to meet genuine market needs. As a result, each product delivers relevant functionality backed by German quality standards.
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