



- IP address versions IPv4 and IPv6
- IP addresses and IP aliases
- IP networks and subnetworks
- Documentation of VLANs
- Import and reporting function



// FNT Command IP Management

Stay in Control of Extensive Network Structures through Transparent Management of IP Networks and IP Addresses

FNT Command enables users to manage their entire IT and telecommunications infrastructure. An integrated view of an organization's infrastructure requires more than just the management of physical assets. When expanding or modifying network assets – e.g., installing new servers – it is important to know the logical network in advance and have the ability to manage all IP networks accordingly.

With FNT Command IP Management, users have full control of even the most complex IP network structures. Featuring extensive functionality for multiple network versions, the module offers integrated calculation and structuring options that eliminate the need for complex calculation and planning. It also enables users to document IP network dependences in an integrated system that allows efficient and predictive management of all IP networks. Since Internet Protocol version 4 (IPv4) is gradually being replaced by version 6 (IPv6), the IP Management module enables easy management of both versions. As a result, it is possible to use the unique benefits of IPv6, including its much larger address space and greater security, to simplify the management of IP networks.

Convenient Management of Large IP Networks

The IP Management module has a built-in editor with autosuggested IP addresses, making it easy to create and manage IP networks. These networks can be divided into separate domains or merged with other networks. It is also possible to add information to a network and assign it to a specific location, e.g., a building. When assigning IP addresses to devices, it is also possible to restrict the addresses to the IPv4 networks of the location in which the devices are placed. Assigning devices (active components) to IP networks enables users to document the routers responsible for an IP network. When editing a network, any potential IP address conflicts are automatically flagged in a preview table.

IP Address Management

FNT Command IP Management enables automatic calculation

of IP addresses in IPv4 and IPv6 networks and domains through the use of subnet masks or slash notation for start and end IP addresses. Within each network domain, it is possible to choose between automatic and manual assignment of IP addresses. To prevent duplicate IP addresses, all addresses already in circulation are excluded from subsequent automatic assignment; manually assigned addresses are automatically checked for integrity. The IP addresses can be linked with physical or logical CIs directly on a port or via an interface. In addition to conventional subnetworks, it is also possible to generate network domains and assign them to specific object classes.

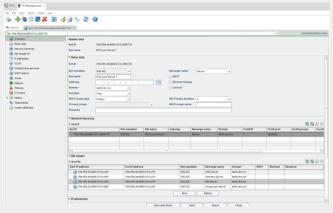


Fig. 1: Overview of basic data for an IP network

Should it be necessary to divide or merge IP networks, this can be done by simply creating a new IP network using the Divide/ Merge Network function, which also passes on any assignments from the original network. In larger environments, assignments from specific IP networks can be predefined for a specific group of users via an authorization control function. Alternatively, it is possible to block the assignment of IP addresses in specific networks and domains to enable easier enforcement of enterprise-wide compliance and allocation rules.

Documentation of VLANs

To improve security, IP networks are often divided into a number of separate VLANs. These can also be accurately documented using the IP Management module, e.g., with the VLAN-to-port assignment at a switch.

Allocation of IP Addresses

If required, it is possible to exclude individual IP addresses from being automatically allocated via DHCP within documented networks. The easy-to-use allocation function allows users to assign specific IP aliases, objects, additional information, and persons to IP addresses. Free IP addresses can be allocated to the devices documented in FNT Command, the ports of active components, or interfaces.

Search and Query Functions

Users also have an extensive range of search and query functions available, enabling easy analysis of their IP networks.

These make it possible to search for networks, network domains, IP addresses, and IP aliases. Users can also search for free networks adjacent to existing IP networks, which makes it easier to identify available IP address ranges.

👌 🕂 🖥 🖬 🗶 🔟 🍕	i 🗟 🌯 🦑 🥝									
Se Search										
Net: 14 records										Sea
V Sk Keyword search	Search restriction - Net									
🐣 Ny searches	Net-ID		to 4d pa000t 0 t							
😸 Public searches										
· 🥷 Ry Clisearch	Net mandator	 * DNC.N 	0		Function			*		
🐣 Illy searches	Net name				Netrange i	name • •		v .		
🧬 Public searches	Gateway				DHCP			×		
⊨ 📱 P/4	Domain	· · · Mancin			Reverse k	ookap		¥		
T 🕎 1946	VLAND			1	Looked					
🍑 Net	VLAN pool	· · Standa			Bernarka					
Net range	VLAN group				Following					
Paddress	VOA goup				rootwing	free nets		-		
V W VLAN				Search Se	arch >> Escel	Search >> CSV	Faset			
VLAN VLAN VLAN DODI	Result - Net			Search Se	arch >> Escal	Search >> CSV	Reast			
Y W VLAN VLAN pool VLAN pool	Resulf - Net 14 records			Search Se	arch >> Escal	Search >> CSV	React			
VLAN VLAN VLAN pool VLAN proup SRV record			Net mandator	Search Se	arch >> Excel	Search >> CSV	React	YLAN-D	VLAN pool	9 🗐 🗐 🔊
VLAN VLAN VLAN pool VLAN pool VLAN proup SKV record O DHCP option	14 records	65555/12						VLAN-D		9 🗐 🗐 🔊
VLAN VLAN VLAN poel VLAN pres VLAN pres	14 records Net-ID		Netmandator	Netname		Retrange name	Domain	YLAN-D		9 🗐 🗐 🔊
VLAN VLAN VLAN pool VLAN pool VLAN provo SRV record SRV record Administration Administration It is needador	14 resonds Net-ID T @ 21%:100-46.00 T @ 21%:100-46.00		Net mandator DVC NC	Not name Pv6 Net DNC		Retrange name Network	Domain drc.inc	VLAN-ID		9 🗐 🗐 🔊
YUAN	14 resords He6-D Y @ 31%:120-46:s0 Y @ 31%:120-46 @ 31%:120-46 @ 31%:120-46	e000.0.0.0.0/114	Net mandator DNC NC DNC NC DNC NC DNC NC	Net name Pv6 Net DNC Pv6 Net Magdeburg		Retrange name Network Network	Domain dnc.inc md.dnc.inc		VLAN pool	9 🗐 🗐 🔊
VLAS	14 resords Het-D T @ 31ts 103-44 a0 T @ 31ts 103-44 @ 31ts 103-4 @ 31ts 103- @ 31ts 103-	4000 0 0 0 0 0/114 40,4000 0 0 0 0/118 40,4000 0 0 0 0 1000/11 40,4000 0 0 0 0 2000/11	Net mandator DIVC NC DIVC NC DIVC NC DIVC NC DIVC NC	Net name Pr6 Net DNC Pr6 Net DNC Pr6 Net Magdeburg Pr6 Magdeburg Serv		Retrange name Nativolik Netivolik Server	Dormain dric.inc md.dric.inc md.dric.inc md.dric.inc		VLAN pool	9 🗐 🗐 🔊
r ⊕ VLA ⊕ VLA ⊕ VLA ⊕ VLA ⊕ VLA ⊕ transf ⊕ Acressi ⊕ Acres	14 resords Het-D T @ 31ts 103-44 a0 T @ 31ts 103-44 @ 31ts 103-4 @ 31ts 103- @ 31ts 103-	e000.0.0.0.0/114 46.e000.0.0.0.0/118 46.e000.0.0.0.1000/11	Net mandator DIVC NC DIVC NC DIVC NC DIVC NC DIVC NC	Net name Pv6 Net DNC Pv6 Net Magdeburg Pv6 Magdeburg Serv Pv6 Magdeburg Cler		Netrange name Network Network Server Clients	Dormain dinc inc md.dinc.inc md.dinc.inc md.dinc.inc		VLAN pool	9 🗐 🗐 🔊
	54 records 166:00 7 © 31% 100:44:30 0 31% 100:44 0 31% 100:45 0 31%	4000 0 0 0 0 114 40,4000 0 0 0 0 0118 40,4000 0 0 0 0 100011 40,4000 0 0 0 200011 40,4000 0 0 0 200011 40,4000 0 0 0 4000114	Net mandator DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC	Net name Pv6 Net DNC Pv6 Net DNC Pv6 Nagdeburg Sen Pv6 Nagdeburg Sen Pv6 Nagdeburg Tele Pv6 Nagdeburg Tele Pv6 Nagdeburg Acth		Netrange name Network Network Server Clients Telephone Active Components Network	Dormain dric inc md.dric.inc md.dric.inc md.dric.inc md.dric.inc		VLAN pool	99992
P V LA V LA	14 records 164-80 T ③ 316 100 44 aX0 ③ 316 100 44 aX0 ④ 316 100 40 ④ 316 100 40 00 40	4000 0 0 0 0 0114 40 4000 0 0 0 0119 40 4000 0 0 0 019011 40 4000 0 0 0 020011 40 4000 0 0 0 020011 40 4000 0 0 0 0000114 4000 0 0 0 4000114	Net mandator DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC	Net name Pv6 Het DAC Pv6 Het DAC Pv6 Hagdeburg Sen Pv6 Hagdeburg Cler Pv6 Hagdeburg Cler Pv6 Hagdeburg Ach Pv6 Hagdeburg Ach Pv6 Hagdeburg Ach Pv6 Hagdeburg Ach		Network Network Network Server Cleans Telephone Active Components Network	Ecenain dinc inc md dec inc md dec inc md dec inc md dec inc md dec inc md dec inc g dec inc g dec inc g dec inc		VLAN pool	99992
(*) VA (*) (*) (*)	14 records	aboo 0.0.0.0.0114 40.600.0.0.0.0116 40.600.0.0.0.0100116 40.600.0.0.0.200011 40.600.0.0.0.200011 40.600.0.0.0.3000111 6000.0.0.0.40001114 6000.0.0.0.80001114	Net mandator DIC INC DIC INC DIC INC DIC INC DIC INC DIC INC DIC INC DIC INC DIC INC	Net name Pró Net DAC Pró Net Magdeburg Pró Magdeburg Car Pró Magdeburg Tala Pró Magdeburg Ach Pró Magdeburg Ach Pró Magdeburg Ach Pró Net 32, Oden		Network Network Network Server Cleans Telephone Active Components Network Network Network	Domain dro.inc md.dro.inc md.dro.inc md.dro.inc md.dro.inc md.dro.inc sg.dro.inc gy.rz.dro.inc berlin.dro.inc	5	VLA8 pool Standard	99992
	44 records 164-00 17 175 r520-44 at 175 r520-44 175 r	aboo 0.0.0.0114 40.600.0.0.0.0116 40.600.0.0.0.0100116 40.600.0.0.0200011 40.600.0.0.02000114 6000.0.0.03000114 6000.0.0.03000114 6000.0.0.03000114 6000.0.0.03000114	Not mandator DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC	Net name Pró Net Modelan Pró Net Magdeburg Ben Pró Magdeburg Sen Pró Magdeburg Aci Pró Net St, Colen Pró Net Orz Pró Net Orz Pró Net Orz Pró Lyon Server		Retrange name Network Server Clama Telaphore Active Components Network Network Network Server	Domain dinc.inc md.dinc.inc md.dinc.inc md.dinc.inc md.dinc.inc dinc.inc dinc.inc grad.dinc.inc barith.dinc.inc barith.dinc.inc	5	VLAI pool Standard Standard	9 🗐 🗐 🔊
• • • •		aboo 0.0.0.0114 40,8000.0.0.0119 42,8000.0.0.020011 42,8000.0.0.020011 42,8000.0.0.020011 42,8000.0.0.4000114 42,8000.0.0.4000114 42,8000.0.0.0200114 44,8000.0.0.0200114	Net mandator DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC	Net name Prid Net DNC Prid Net DNC Prid Hagdeburg Sen Prid Hagdeburg Tele Prid Hagdeburg Tele Prid Hagdeburg Act Prid Net St. Galen Prid Lyon Senser Prid Lyon Senser		Network Network Network Server Cleans Telephone Active Components Network Network Network Server	Demain dric inc md des inc md des inc md des inc md des inc md des inc md des inc grat des inc grat des inc grat des inc berin des inc berin des inc	5	VLAN pool Standard Standard Standard Standard	99992
* V.M * Monta * Monta * Amonta * Amonta * * * * *	4 4 4 4 4 4 4 4 4 4 4 4 4 4 1	addo 0 0 0 0 0114 40 addo 0 0 0 0119 40 addo 0 0 0 019 40 addo 0 0 0 0200011 40 addo 0 0 0 0200011 40 addo 0 0 0 02000114 40 addo 0 0 0 0200114 40 addo 0 0 0 0200114 40 addo 0 0 0 0200114 40 addo 0 0 0 0200114	Net mandator DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC DNC NC	Net name Pu6 Het DAC Pu6 Het Modeburg Pu6 Hagdeburg Tek Pu6 Hagdeburg Tek Pu6 Hagdeburg Tek Pu6 Hagdeburg Tek Pu6 Het SL Gale Pu6 Het SL Pu6 He		Retrienge name Nativisk Server Claints Teleptone Active Components Netwisk Nativisk Nativisk Server Cleints Server Cleints	Dermain dinc inc mit dinc inc mit dinc inc mit dinc inc mit dinc inc mit dinc inc mit dinc inc sy dinc inc berlin dinc inc berlin dinc inc berlin dinc inc berlin dinc inc	5	VLAN pool Standard Standard Standard Standard Standard	99992
		80000000000000000000000000000000000000	Net mandator DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC DIVC INC	Net name Prid Net DNC Prid Net DNC Prid Hagdeburg Sen Prid Hagdeburg Tele Prid Hagdeburg Tele Prid Hagdeburg Act Prid Net St. Galen Prid Lyon Senser Prid Lyon Senser		Network Network Network Server Cleans Telephone Active Components Network Network Network Server	Demain dric inc md des inc md des inc md des inc md des inc md des inc md des inc grat des inc grat des inc grat des inc berin des inc berin des inc	5	VLAN pool Standard Standard Standard Standard	우 앱 및 공 VAI grout

Fig. 2: Searching for free IP addresses

History and Attachments

Files can be attached to all types of object, e.g., networks, network domains, addresses, and aliases. Using the History function, it is also possible to track all changes to objects and then use this information for compliance and auditing purposes.

IP Linker

The IP Linker function enables users to create and assign IP data without having to open the IP Management module. The function is available in the Server Management, Client Management, Object Management, and Network Inventory modules.

Import Options and Customization

Built-in import templates enable users to import data in standard formats (MS Excel) to run a range of readymade change processes with predefined actions. This is an easy and centralized way of creating, updating, and deleting data as well as links between zones and networks. There is also a range of reports that enable users to measure utilization of individual IP networks and available IP addresses.

The IP Management module also has an Entity Manager function, which enables users to add new attributes to all existing, predefined attributes as a means of documenting enterprise-specific information. These can be stored in the following areas:

- IP networks and network domains
- IP addresses
- IP aliases

System Requirements

The FNT Command C base module is a prerequisite for using the FNT Command IP Management module.

FNT GmbH