IT Department

Network Connection Request Form V 9.26.

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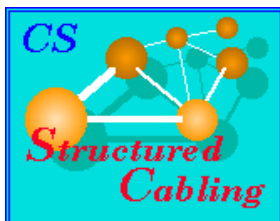 Wireless
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CERN IP networks

The following IP network adresses are (may be) used inside the organization.

All these adresses must therefore be considered as INSIDE the CERN Firewall. Any application using IP address based filtering for deciding wether an adress is inside or outside the organisation must make sure the filters in place include the list of networks below (web servers, tcp wrappers, etc).

This list includes Non Routable prefixes as per RFC 1918 in use (and routed) INSIDE the organisation. If you need one of these prefixes to be allocated to you, please follow these instructions

Warning: The "masks" given in the table below are NOT the network masks for the end systems connected to these networks. It is a "wildcard" which should be used in filters. Please refer to the other tables for real end system network masks.

IPv4 Network base	Filter wildcard	Prefix length	Starts at	Ends at
10.0.0.0	255.0.0.0	/8	10.0.0.0	10.255.255.255
128.141.0.0	255.255.0.0	/16	128.141.0.0	128.141.255.255
128.142.0.0	255.255.0.0	/16	128.142.0.0	128.142.255.255
137.138.0.0	255.255.0.0	/16	137.138.0.0	137.138.255.255
172.16.0.0	255.240.0.0	/12	172.16.0.0	172.31.255.255
188.184.0.0	255.254.0.0	/15	188.184.0.0	188.185.255.255
192.16.155.0	255.255.255.0	/24	192.16.155.0	192.16.155.255
192.16.165.0	255.255.255.0	/24	192.16.165.0	192.16.165.255
192.91.242.0	255.255.255.0	/24	192.91.242.0	192.91.242.255
192.168.0.0	255.255.0.0	/16	192.168.0.0	192.168.255.255
194.12.128.0	255.255.192.0	/18	194.12.128.0	194.12.191.255

IPv6 prefix
2001:1458::/32
FD01:1458::/32

The end systems connected to the most commonly used IPv4 networks may be configured as follows:

End system address	End system Mask	Default Gateway
128.141.x.x	255.255.0.0	128.141.1.1
137.138.x.x	255.255.0.0	137.138.1.1
172.17.x.x	255.255.0.0	172.17.1.1
172.18.x.x	255.255.0.0	172.18.1.1

The old default gateway 128.141.200.20 for 128.141 is not valid anylonger. 128.141 adresses are now allocated with DHCP so the parameters are set automatically in the end systems from the DHCP servers.

End system address	DNS 1	DNS 2	Time server 1	Time server 2	WINS server 1	WINS server 2
172.18.x.x	172.18.16.5	172.18.17.5	172.18.16.49	172.18.17.49	137.138.16.248	137.138.17.248
Any Other	137.138.16.5	137.138.17.5	137.138.16.69	137.138.17.69	137.138.16.248	137.138.17.248

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