Network Configuration Guide.
Univerge Blue.

F1ONE
TECHNOLOGIES

Port and IP Information.

Required Open Ports:

Service	Protocol	Port numbers
SIP signalling	UDP	5060
SIP signalling	TCP (TLS 1.2)	5061
S/RTP	UDP & TCP	30000-65000
Image files	TCP	80
Chat application	TCP	443
Secure LDAP for Corporate Directory access of the phones	TCP	636
Cloud softphone	TCP	1443
Desktop and mobile applications presence servers	TCP	5222
Presence server	TCP	5280
Cisco Phones	TCP	2443
Yealink Phones	TCP	6716
NEC Phones	TCP	6718
Fanvil Phones	TCP	6719
SIP Signalling via UDP/TCP	TCP	6060
SIP Signalling via TLS	TCP	6061

IP's to be Whitelisted:

PBX Servers for Europe	
Server Address	**IP Address**
hpbx201.telecomsvc.com	18.157.95.169 & 185.64.214.165
hpbx202.telecomsvc.com	52.57.163.182 & 185.64.214.167
hpbx203.telecomsvc.com	18.157.83.109 & 185.64.214.169
hpbx204.telecomsvc.com	18.197.222.77 & 185.64.214.172
hpbx205.telecomsvc.com	18.159.225.48 & 185.64.214.174
hpbx206.telecomsvc.com	18.158.157.23 & 185.64.214.176
hpbx207.telecomsvc.com	52.59.117.98 & 185.64.214.146
hpbx209.telecomsvc.com	3.127.164.52 & 185.64.214.147
hpbx211.telecomsvc.com	18.184.198.29 & 185.64.214.148
*only one of the Servers Addresses above will be applicable for your system, please check with the technical team for clarification.	
IPS Servers for Europe	
ips101.telecomsvc.com	185.64.214.160/26 & 185.64.214.161/26
ips102.telecomsvc.com	3.126.6.125 & 18.157.126.27
ips103.telecomsvc.com	185.64.214.137/26 & 185.64.214.138/26
*only one of the Servers Addresses above will be applicable for your system, please check with the technical team for clarification.	
Provisioning server for Europe	
config.telecomsvc.com	64.28.112.144 & 64.28.115.144
phoneprov02.telecomsvc.com	18.156.21.248 & 185.64.214.159/26
Corporate Directory	
directory.serverdata.net	64.78.26.255

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Disable SIP ALG.

· Important! This is the most important and critical setting to change
· This is also known as SIP transformations

Firewall.

· Ensure the router/firewall does not block the phones' NAT Binding/Keep-Alive packets
· Most routers do not block the phones keep alive packets by default, but many high-end firewalls, like barracudas, do
· Some firewalls don't have an option to allow the packets, so an alternative solution is to set the phones UDP session timeout to 300 seconds since the phones send a SIP packer re-registration request every 5 minutes

Recommended Settings.

· Disable DNS proxy/relay on all DHCP and DNS servers on your network if possible
· Set the DHCP DNS servers (DHCP option 6) to a set of efficient DNS server addresses, such as:
    Google DNS - a) 8.8.8.8 or b) 8.8.4.4
    Open DNS - a) 208.67.222.222 or b) 208.67.220.220
· The phones and other devices cannot be configured public IP addresses