

### 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                          |

# Network Configuration Guide.

## Univerge Blue.



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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