

SwyxWare Ports

Outbound

The service is the source of an action.

TCP: The service acts as a TCP client and establishes a connection to a remote TCP server.

UDP: Packets send from this service to a remote destination.

Inbound

The service is the target of an action.

TCP: The service acts as a TCP server and accepts connections from remote TCP clients.

UDP: Packets send from a remote party to this service.

SwyxWare Server

Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|-------------------|----------|------|---------------|---|-------------------------------------|------------|
| Configuration | CDS | TCP | Any | 9094 / for SDC 9095 | | |
| Client REST API | HTTPS | TCP | Any | 9100 | | |
| Mail | IMAP | TCP | Any | Any IP:Any Port | | WAN access |
| Mail | SMTP | TCP | Any | Any IP:Any Port | | WAN access |
| CallControl | SIP | TCP | Any | Any IP:Any Port | | |
| CallControl | SIP | UDP | 5060 | Any IP:Any Port | | |
| Audio | RTP | UDP | 51000 - 51499 | Any IP:Any Port | Registry: RTPFirstPort, RTPLastPort | |
| PhoneWhitelist | HTTPS | TCP | Any | https://cpe.swyx.com/whitelist/PhoneWhitelist.dat | | WAN access |
| IntersitePresence | WCF | TCP | Any | Any IP:9093 | | WAN access |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|-------------------|----------|------|-----------------|---------------|-------------------------------------|-------------------|
| CallControl | SIP | TCP | Any IP:Any Port | 5060 | | |
| CallControl | SIP | UDP | Any IP:Any Port | 5060 | | |
| Audio | RTP | UDP | Any IP:Any Port | 51000 - 51499 | Registry: RTPFirstPort, RTPLastPort | |
| IntersitePresence | WCF | TCP | Any IP:Any Port | 9093 | | WAN access |

CDS**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|----------------|----------|------|---------------|------------------------------|---|-------------------|
| Licensing | HTTPS | TCP | Any | https://license.swyx.com:443 | SwyxFlex, SwyxPerpetual, Instant Messaging, SwyxMeeting | WAN access |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|---|----------|------|-----------------|---------------------|------------------|-------------------|
| CDS API (configuration) | WCF | TCP | Any IP:Any Port | 9094 / for SDC 9095 | | |
| Client REST API (full) | HTTPS | TCP | Any IP:Any Port | 9100 | | |
| Client REST API (authentication service only) | HTTPS | TCP | Any IP:Any Port | 9101 | | WAN access |
| Provisioning | HTTP | TCP | Any IP:Any Port | 9200 | | |

**SwyxGate
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|--|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| Audio/Fax | RTP/T.38 | UDP | 52000 - 52499 | Any IP:Any Port | Registry: RtpPortRangeStart, RtpPortRangeEnd |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|--|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5064 | Registry: LowerBoundSipPort, UpperBoundSipPort |
| Audio/Fax | RTP/T.38 | UDP | Any IP:Any Port | 52000 - 52499 | Registry: RtpPortRangeStart, RtpPortRangeEnd |

LinkManager Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|-------------------------|--------------|---------|---------------|---------------------------------|--|-------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | | |
| CallControl (local EP) | SIP | TCP | Any | IpPbxSrv IP:5060 | | |
| CallControl (local EP) | SIP | UDP | 65001 | IpPbxSrv IP:5060 | Registry: TcpPortOfLocalSipEndpoint | |
| CallControl (remote EP) | SIP | TCP/TLS | Any | Any IP:Any Port | | WAN access |
| CallControl (remote EP) | SIP | UDP | 65002 | Any IP:Any Port | Registry: TcpPortOfRemoteSipEndpoint | WAN access |
| CallControl (remote EP) | STUN Message | UDP | 65002 | Any IP:3478 | Registry: TcpPortOfRemoteSipEndpoint | WAN access |
| Audio/Fax | RTP/T.38 | UDP | 55000 – 56000 | Any IP:Any Port | Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp | WAN access |
| Audio/Fax | STUN Message | UDP | 55000 – 56000 | Any IP:3478 | Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp | WAN access |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|------------------------|----------|------|----------------------|---------------|-------------------------------------|---------|
| CallControl (local EP) | SIP | TCP | IpPbxSrv IP:Any Port | 65001 | Registry: TcpPortOfLocalSipEndpoint | |
| CallControl (local EP) | SIP | UDP | IpPbxSrv IP:5060 | 65001 | Registry: TcpPortOfLocalSipEndpoint | |

| | | | | | | |
|-------------------------|--------------|-----|-----------------|---------------|--|-------------------|
| CallControl (remote EP) | SIP | TCP | Any IP:Any Port | 65002 | Registry: TcpPortOfRemoteSipEndpoint | WAN access |
| CallControl (remote EP) | SIP | UDP | Any IP:Any Port | 65002 | Registry: TcpPortOfRemoteSipEndpoint | WAN access |
| CallControl (remote EP) | STUN Message | UDP | Any IP:Any Port | 65002 | Registry: TcpPortOfRemoteSipEndpoint | WAN access |
| Audio/Fax | RTP/T.38 | UDP | Any IP:Any Port | 55000 – 56000 | Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp | WAN access |
| Audio/Fax | STUN Message | UDP | Any IP:Any Port | 55000 – 56000 | Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp | WAN access |

Conference Manager Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|--|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| Audio | RTP | UDP | 56000 - 57000 | Any IP:Any Port | Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|--|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5062 | Registry: LowerBoundSipPort, UpperBoundSipPort |
| Audio | RTP | UDP | Any IP:Any Port | 56000 - 57000 | Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp |

Phone Manager Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| Configuration | DLS/HTTP | TCP | Any | Any IP:8085 | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | used in Version |
|----------------|-----------|----------|----------------------|------------------|--------------------------------|-----------------|
| CallControl | CorNet TC | TCP, TLS | Any IP:Any Port | 4060, 4061 | | |
| CallControl | H.323 | TCP, TLS | Any IP:Any Port | 1300, 1720, 1721 | | < 12.0 |
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 65007 | Registry: SipCallSignalingPort | |
| Configuration | DLS | TCP | Any IP:Any Port | 18443 | | |

**FaxServer
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|-----------------|----------|------|---------------|---------------------------------|--|-------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | | |
| Client REST API | HTTPS | TCP | Any | IpPbxSrv IP:9100 | | |
| Mail | SMTP | TCP | Any | Any IP:Any Port | | WAN access |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | | |
| Fax | RTP/T.38 | UDP | 2000 - 8000 | Any IP:Any Port | Registry: T38PortRangeStart, T38PortRangeEnd | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|--|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 61000 | Registry: LowerBoundSipPort, UpperBoundSipPort |
| Fax | RTP/T.38 | UDP | Any IP:Any Port | 2000 - 8000 | Registry: T38PortRangeStart, T38PortRangeEnd |

**FaxServer Printer Gateway
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |

**MobileExtensionManager
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|--|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | 5070 - 5170 | IpPbxSrv IP:5060 | Registry: SipListenerPort |
| Audio | RTP | UDP | 50000 - 50999 | Any IP:Any Port | Registry: PortrangeBegin, PortrangeEnd |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|--|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5070 - 5170 | Registry: SipListenerPort |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5070 - 5170 | Registry: SipListenerPort |
| Audio | RTP | UDP | Any IP:Any Port | 50000 - 50999 | Registry: PortrangeBegin, PortrangeEnd |

**PushNotificationService
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|----------------------------------|----------|------|---------------|--|--------------------|-------------------|
| Push Notification Gateway Apple | HTTPS | TCP | Any | api.push.apple.com:443 | | WAN access |
| Push Notification Gateway Google | HTTPS | TCP | Any | fcm.googleapis.com:443 | | WAN access |
| CallControl | SIP | TCP | Any | Any IP:Any Port (IpPbxSrv, RemoteConnector, Clients) | | |
| CallControl | SIP | UDP | 5096 | Any IP:Any Port (IpPbxSrv, RemoteConnector, Clients) | Registry: BindPort | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|--|---------------|--------------------|
| CallControl | SIP | TCP | Any IP:Any Port (IpPbxSrv, RemoteConnector, Clients) | 5096 | Registry: BindPort |
| CallControl | SIP | UDP | Any IP:Any Port (IpPbxSrv, RemoteConnector, Clients) | 5096 | Registry: BindPort |

Remote Connector Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|------------------|----------|------|---|---|---|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 / IpPbxSrv IP:5096 | |
| CallControl | SIP | UDP | 10000 - 15000 | IpPbxSrv IP:5060 / IpPbxSrv IP:5096 | |
| Audio | RTP | UDP | 15000 - max (Typical number of connections * 2) | Any IP:Any Port | |
| "TCP Forwarding" | | TCP | Until 12.20: 712,9100 Since 12.20: 712,9100,9980 80 Any Any Any | IpPbxSrv IP:712 IpPbxSrv IP:9100 IpPbxSrv IP:80 | Until 12.20: Registry: TcpForwardingPorts Since 12.20: Registry: TcpForwarding |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|-----------------|----------|------|-------------------------------------|---|--------------------------------|-------------------|
| Tunnel (WAN EP) | TLS | TCP | Any IP:Any Port | 16203, 57203 | Registry: TunnelListeningPorts | WAN access |
| CallControl | SIP | TCP | IpPbxSrv IP:Any | 10000 - 15000 | | |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 / IpPbxSrv IP:5096 | 10000 - 15000 | | |
| Audio | RTP | UDP | Any IP:Any Port | 15000 - max (Typical number of connections * 2) | | |

SwyxCTI+ Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|--|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | 65009 | IpPbxSrv IP:5060 | Registry: SipCallSignalingPort |
| Audio | RTP | UDP | 60000 – 60100 | | Registry: PortrangeBegin, PortrangeEnd |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|--|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 65009 | Registry: SipCallSignalingPort |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 65009 | Registry: SipCallSignalingPort |
| Audio | RTP | UDP | 60000 – 60100 | | Registry: PortrangeBegin, PortrangeEnd |

**Swyx uaCSTA
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------------------------|------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | |
| CallControl | SIP | TCP | Any | Any IP:Any Port | |
| CallControl | SIP | UDP | 65012 | Any IP:Any Port | Registry: Port |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|-----------------|---------------|------------------|
| CallControl | SIP | TCP | Any IP:Any Port | 65012 | Registry: Port |
| CallControl | SIP | UDP | Any IP:Any Port | 65012 | Registry: Port |

**SwyxIt! / FaxClient
Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|------------------------------|------------|--------------|------------------|------------------------------------|---|-----------------------|
| REST API (Authentication) | HTTPS | TCP | Any | Any IP:9101 | Swyx Configuration URL | WAN access |
| REST API | HTTPS | TCP | Any | IpPbxSrv IP:9100 | | |
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | | |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | | |
| CallControl | SIP | UDP | 5070 - 5170 | IpPbxSrv IP:5060 | Registry: SIPListenerPort | |
| Audio/Video | RTP | UDP | 50000 - 50999 | Any IP:Any Port | Registry: PortrangeBegin, PortrangeEnd | |
| VisualContacts | LDAP | TCP + UDP | Any | Any IP:712 | | |
| Tunnel | TLS | TCP | Any | Any IP:16203,57203 | | WAN access |
| SwyxIt! Web Extension | HTTP/HTTPS | TCP | Any | Any IP:Any Port | Skin | WAN access |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|-----------------------|-----------------|-------------|----------------------|----------------------|--|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5070 - 5170 | Registry: SIPListenerPort |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5070 - 5170 | Registry: SIPListenerPort |
| Audio/Video | RTP | UDP | Any IP:Any Port | 50000 - 50999 | Registry: PortrangeBegin, PortrangeEnd |
| VisualContacts | LDAP | UDP | Any IP:Any Port | Any | |

Swyx Messenger (part of SwyxIt!)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|--|----------|------|---------------|--|------------------|-------------------|
| REST API to SwyxWare | HTTPS | TCP | Any | 9100 | | |
| REST API to Coligo Stepping Stone Service (acquiring Coligo token) | HTTPS | TCP | Any | https://swyx-im-security.k8s.ispworks.nl:443 | | WAN access |
| Communication with Coligo Backend - Chat | WSS | TCP | Any | wss://iam.voipoperator.eu/socket:443 | | WAN access |
| Communication with Coligo Backend - File Upload and Download | HTTPS | TCP | Any | https://iamfile.voipoperator.eu:4006 | | WAN access |
| Communication with SwyxIt! (localhost - 127.0.0.1) | SignalR | TCP | Any | random port | | |

Swyx Connector for MS Teams (needs SwyxIt!)**Outbound**

| Classification | Protocol | Type | Port (source) | Target Host | Port (target) | Comment |
|---|----------|------|---------------|------------------------------|---|-------------------|
| Download of the Swyx MS Teams Web App | HTTPS | TCP | Any | https://msteams-app.swyx.com | 443 | WAN access |
| Communication with SwyxIt! (localhost - 127.0.0.1) | SignalR | TCP | Any | Localhost | 12042 (default) Alternative ports if default is blocked: 17042, 22042, 27042, 32042, 37042, 42042 | |
| Communication with SwyxIt! (localhost - 127.0.0.1) in Microsoft Remote Desktop Services environment | SignalR | TCP | Any | Localhost | random port - redirected via SwyxIt! Discovery Service (see below) | |

**SwyxIt! Discovery Service
Inbound**

| Classification | Protocol | Type | Port (source) | Target Host | Port (target) |
|--|----------|------|---------------|-------------|---|
| Redirection of Swyx Connector for MS Teams requests in Microsoft Remote Desktop Services environment | SignalR | TCP | Any | Localhost | 12042 (default) Alternative ports if default is blocked: 17042, 22042, 27042, 32042, 37042, 42042 |

SwyxWare Administration**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|----------------|----------|------|---------------|---------------------------------|------------------|-------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 / for SDC 9095 | | |
| Firmware | FTP | TCP | Any | ftp.swyx.com:23 | Administration | WAN access |

Swyx Connectivity Setup Tool (SCST)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|----------------------------------|----------|------|---------------|--|------------------|-------------------|
| Configuration | CDS | TCP | Any | IpPbxSrv IP:9094 | | |
| Certificate request and download | HTTPS | TCP | Any | https://acme-v02.api.letsencrypt.org:443 | | WAN access |

Swyx Trace Tool**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|----------------|----------|------|---------------|---------------------------|------------------|-------------------|
| Trace Upload | HTTPS | TCP | Any | https://bits.swyx.com:443 | | WAN access |

**SwyxPhone L4xx; L5xx; L6xx; L6x
Outbound**

| Classification | Protocol | Type | Port(source) | Port(target) | used in Version | Comment |
|----------------|-------------|----------|--------------|---------------------------------|---|-------------------|
| CallControl | CorNet | TCP, TLS | Any | 4060, 4061 | | |
| CallControl | H.323/H.225 | TCP, TLS | Any | 1300, 1720, 1721 | L6x: not L6xx,L5xx,L4xx: <=V2 R1.5.0 | |
| Audio | RTP | UDP | Any | 5000 - 5020 (mostly 5012, 5013) | | |
| FW-Update | FTP | TCP | Any | Any to 21 | | WAN access |
| Network Time | NTP | UDP | Any | unspecified to 123 | | |

Inbound

| Classification | Protocol | Type | Port(source) | Port (target) |
|---------------------------|----------|------|--------------|---------------|
| Configuration/PhoneSearch | HTTP | TCP | Any | 8085 |
| local web interface | HTTPS | TLS | Any | 443 |

**DCF phone Yealink T4xS, T5x
Outbound**

| Classification | Protocol | Type | Port(source) | Port (target) | used with Version | Comment |
|------------------------|----------|---------|---------------|-----------------|--------------------|-------------------------------|
| Audio | RTP | UDP | 11780 - 12780 | Any IP:Any Port | | configurable via WebInterface |
| PhoneBook | LDAP | TCP | Any | 389 | < SwyxWare v12.30 | |
| PhoneBook | LDAPS | TLS | Any | 636 | >= SwyxWare v12.30 | |
| Provisioning | HTTP | TCP | Any | 9200 | | |
| VoIP | SIP | UDP/TCP | 5060/Any | 5060 | | |
| uaCSTA | SIP | UDP/TCP | 5060/Any | 65012 | | |
| RPS, Firmware download | HTTP | TCP | Any | any to 80 | | WAN access |
| RPS, Firmware download | HTTPS | TLS | Any | any to 443 | | WAN access |

Inbound

| Classification | Protocol | Type | Port(source) | Port (target) | Comment |
|---------------------|----------|---------|-----------------|---------------|-------------------------------|
| local SIP stack | SIP | UDP/TCP | 5060/Any | 5060 | |
| local web interface | HTTPS | TLS | Any | 443 | |
| Audio | RTP | UDP | Any IP:Any Port | 11780 - 12780 | configurable via WebInterface |

DCF phone Swyx RemoteConnector for Yealink

Since SwyxWare 13.30 for SwyxON only.

Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | used with Version | Comment |
|---------------------------|----------|------|---------------|---|------------------------------|-------------------|
| Yealink RPS | HTTPS | TCP | Any | https://rps.yealink.com:443 https://rpscloud.yealink.com:443 Controlled by Yealink Firmware | | WAN access |
| Yealink Firmware download | HTTPS | TCP | Any | Any IP : 443 Controlled by Yealink RPS | | WAN access |
| Swyx RPS | HTTPS | TCP | Any | https://phone.swyx.com:443 | >= SwyxWare v13.30 SwyxON | WAN access |
| Remote Endpoint | OpenVPN | UDP | Any | Address is shown in the SCC: Home / General settings / System settings / Provisioning remote01.swyxon.com : Any Port ... remote10.swyxon.com : Any Port | >= SwyxWare v13.30 SwyxON | WAN access |

SwyxMobile (Android)

Internal mode (without RemoteConnector)

Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|---------------------------|-----------|------|---------------|------------------|------------------|-------------------|
| REST API (Authentication) | HTTPS | TCP | Any | IpPbxSrv IP:9101 | | |
| REST API | HTTPS | TCP | Any | IpPbxSrv IP:9100 | | |
| IM | Websocket | TCP | Any | Any IP:443 | | WAN access |
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | | |
| CallControl | SIP | UDP | 5070 | IpPbxSrv IP:5060 | | |
| Audio | RTP | UDP | 50000- 50999 | Any IP:Any Port | | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5070 | |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5070 | |
| Audio | RTP | UDP | Any IP:Any Port | 50000- 50999 | |

External mode (with RemoteConnector)

Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|---------------------------|----------|------|---------------|----------------------------|---|-------------------|
| REST API (Authentication) | HTTPS | TCP | Any | Any IP:9101 | | WAN access |
| RemoteConnector | TLS | TCP | Any | Any IP:16203, 57203 or 443 | all three ports are tried at the same time and the first successful connect wins. | WAN access |

| | | | | | | | |
|----|-----------|-----|-----|------------|--|--|-------------------|
| IM | Websocket | TCP | Any | Any IP:443 | | | WAN access |
|----|-----------|-----|-----|------------|--|--|-------------------|

SwyxMobile iOS/Swyx Desktop macOS

Internal mode (without RemoteConnector)

Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|---------------------------|-----------|-----------|---------------|------------------|------------------|-------------------|
| REST API (Authentication) | HTTPS | TCP | Any | IpPbxSrv IP:9101 | | |
| REST API | HTTPS | TCP | Any | IpPbxSrv IP:9100 | | |
| IM | Websocket | TCP | Any | Any IP:443 | | WAN access |
| CallControl | SIP | UDP + TCP | Any | IpPbxSrv IP:5060 | | |
| Audio | RTP | UDP | 50000- 50999 | Any IP:Any Port | | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | Any | |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | Any | |
| Audio | RTP | UDP | Any IP:Any Port | 50000- 50999 | |

External mode (with RemoteConnector)

Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|---------------------------|----------|------|---------------|---------------|------------------|-------------------|
| REST API (Authentication) | HTTPS | TCP | Any | Any IP:9101 | | WAN access |

| | | | | | | |
|-----------------|-----------|-----|-----|----------------------------|---|-------------------|
| RemoteConnector | TLS | TCP | Any | Any IP:16203, 57203 or 443 | all three ports are tried at the same time and the first successful connect wins. | WAN access |
| IM | Websocket | TCP | Any | Any IP:443 | | WAN access |

Swyx DECT 500**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|------------------|------------------|
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | 5060 | IpPbxSrv IP:5060 | WebInterface |
| Audio | RTP | UDP | 50004 - 50258 | Any IP:Any Port | WebInterface |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|----------------------|---------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5060 | WebInterface |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5060 | WebInterface |
| Audio | RTP | UDP | Any IP:Any Port | 50004 - 50258 | WebInterface |

Swyx DECT 800 (DCF)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | |
|-------------------|----------|---------|---------------|-----------------|--------------------|-------------------|
| Audio | RTP | UDP | 16384 - 32767 | Any IP:Any Port | WebInterface | |
| PhoneBook | LDAP | TCP | Any | 389 | < SwyxWare v12.30 | |
| PhoneBook | LDAPS | TLS | Any | 636 | >= SwyxWare v12.30 | |
| Provisioning | HTTP | TCP | Any | 9200 | | |
| CallControl | SIP | UDP/TCP | 5060/Any | 5060 | | |
| Firmware download | HTTP | TCP | | any to 80 | | WAN access |
| Firmware download | HTTPS | TLS | | any to 443 | | WAN access |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|------|----------------------|---------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 2048 - 65535 | WebInterface |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 2048 - 65535 | WebInterface |
| Audio | RTP | UDP | Any IP:Any Port | 16384 - 32767 | WebInterface |
| local web interface | HTTPS | TLS | Any | 443 | |

Mutual (between base stations)

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|---------------|------------------|
| CallControl | H323 | TCP | Any Port | 726-1727 | WebInterface |
| CallControl | H225 | UDP | Any Port | 1718-1719 | WebInterface |

| | | | | | |
|-------|------|-----|-----------------|---------------|--------------|
| Audio | RTP | UDP | Any IP:Any Port | 16384 - 65535 | WebInterface |
| Unite | HTTP | TCP | Any | 8080 | |

Swyx DECT 800 (classic deployment)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|---------------|------------------|------------------|
| CallControl | SIP | TCP | Any | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | Any | IpPbxSrv IP:5060 | WebInterface |
| Audio | RTP | UDP | 16384 - 32767 | Any IP:Any Port | WebInterface |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|------|----------------------|---------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 2048 - 65535 | WebInterface |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 2048 - 65535 | WebInterface |
| Audio | RTP | UDP | Any IP:Any Port | 16384 - 32767 | WebInterface |
| local web interface | HTTPS | TLS | Any | 443 | |

Swyx Connect (172x)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|-----------|-----------------|------------------|------------------|
| CallControl | SIP | TCP | 5060 ? | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | 5060 | IpPbxSrv IP:5060 | |
| Audio/Fax/Allgemein | RTP/T.38 | UDP | 32768 - 49151 | Any IP:Any Port | |
| Allgemein | | TCP | 3072 - 19455 ? | ? | |
| Maskierung | | UDP + TCP | 53248 - 57343 ? | ? | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|-----------|----------------------|-----------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5060 | |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5060 | |
| Audio/Fax/Allgemein | RTP/T.38 | UDP | Any IP:Any Port | 32768 - 49151 | |
| Allgemein | | TCP | ? | 3072 - 19455 ? | |
| Maskierung | | UDP + TCP | ? | 53248 - 57343 ? | |

Swyx Connect (6xxx/8xxx)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|------|-----------------------------|------------------|------------------|
| CallControl | SIP | TCP | 5061, 5081 ? | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | 5060, 5080 | IpPbxSrv IP:5060 | |
| Audio/Fax/Allgemein | RTP/T.38 | UDP | 6000 – (6000+(channels*10)) | Any IP:Any Port | |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|------|----------------------|-----------------------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5061, 5081 ? | |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5060, 5080 | |
| Audio/Fax/Allgemein | RTP/T.38 | UDP | Any IP:Any Port | 6000 – (6000+(channels*10)) | |

MediaPack (MP-1xy)**Outbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|------|------------------------------------|------------------|------------------|
| CallControl | SIP | TCP | 5061 ? | IpPbxSrv IP:5060 | |
| CallControl | SIP | UDP | 5060 | IpPbxSrv IP:5060 | LocalSIPPort |
| Audio/Fax/Allgemein | RTP/T.38 | UDP | 6000 - (6000+10*(device channels)) | Any IP:Any Port | BaseUDPPort |

Inbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|---------------------|----------|------|----------------------|------------------------------------|------------------|
| CallControl | SIP | TCP | IpPbxSrv IP:Any Port | 5061 ? | LocalSIPPort |
| CallControl | SIP | UDP | IpPbxSrv IP:5060 | 5060 | LocalSIPPort |
| Audio/Fax/Allgemein | RTP/T.38 | UDP | Any IP:Any Port | 6000 - (6000+10*(device channels)) | BaseUDPPort |

SwyxPlus VisualGroups**Inbound**

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via |
|----------------|----------|------|-----------------|---------------|------------------|
| Information | HTTP | TCP | Any IP:Any Port | 80 | |

Swyx Control Center**Inbound**

| Classification | Protocol | Type | Port | Configurable via |
|---------------------------|----------|------|------|---------------------|
| Administration Web-Portal | HTTPS | TCP | 9443 | SCC Installer / IIS |

Outbound

| Classification | Protocol | Type | Port | Configurable via |
|-------------------------|----------|------|------|------------------|
| Swyx Management Service | HTTPS | TCP | 9201 | config-file |

Swyx Management Service**Inbound**

| Classification | Protocol | Type | Port | Configurable via |
|--|----------|------|------|------------------|
| Swyx Management Service (REST Api Interface) | HTTPS | TCP | 9201 | config-file |

Outbound

| Classification | Protocol | Type | Port | Configurable via |
|---|----------|------|------|------------------|
| CDS Client REST API (full) | HTTPS | TCP | 9100 | |
| CDS Client REST API (authentication service only) | HTTPS | TCP | 9101 | |

SwyxWare HealthMonitor Outbound

The ports health monitor connects to are configured in Health Monitor's `appSettings.json`. The following list reflects the defaults only. Actual ports depend on the configuration the customer sets up.

| Classification | Protocol | Type | Port (Source) | Port (Target) | Configurable via |
|-------------------------------------|----------|------------|---------------|-------------------------------|------------------|
| Health Probing of SwyxWare Services | HTTP | TCP | Any | 9100 | appSettings.json |
| Health Probing of SwyxWare Services | SIP | TCP or UDP | Any | (see SwyxWare services above) | appSettings.json |

Inbound

| Classification | Protocol | Type | Port (Target) | Configurable via |
|---|----------|------|---------------|--|
| Prometheus Metrics Exporter to provide health probing results | HTTP | TCP | 5000 | During installation via <code>install-service.ps1</code> script parameter. Note that the IP the service is listening depends on configuration, e.g. parameter of the <code>install-service.ps1</code> script. If listening is configured using an URL like http://*:5000 the service listens on any IP. If a specific IP is specified in the url the service listens only on that one. |

If the customer additionally installs Prometheus or Grafana, these components are also listening on TCP ports. Refer to the documentation (<https://grafana.com> and <https://prometheus.io>) for details.

MS Teams PresenceSync Outbound

| Classification | Protocol | Type | Port (source) | Port (target) | Configurable via | Comment |
|-----------------|----------|------|---------------|--|------------------|-------------------|
| | HTTPS | TCP | Any | graph.microsoft.com :443 | | WAN access |
| | HTTPS | TCP | Any | login.microsoftonline.com :443 | | WAN access |
| Client REST API | HTTPS | TCP | Any | IpPbxSrv IP:9100 | | |

