

Which Ports are used by Swyx 14

Regarding SwyxWare the central units inside the network are the SwyxServer and the ConfigDataStore. The main task of the SwyxServer is the call control, means delivery of calls to the correct destination. Additionally, it takes care about status signalling, scripting and a lot of other things.

The main purpose of the ConfigDataStore is to store all configuration items of SwyxWare, but it's also used to store phonebooks, caller lists etc.

Taking this into account we can divide the network communication of SwyxWare into 3 major parts:

1. Loading and saving configuration items
2. Connect and disconnect of calls via CallControl
3. Transmission of voice/audio and fax data

The ConfigDataStore is implemented as a Webservice which means, that all clients access the service via a well-known TCP port. The ConfigDataStore listens at TCP port 9094, it never initiates network connections by itself. With SwyxWare SDC port 9095 is used additionally.

Since SwyxWare 2011 only SIP is used as CallControl protocol.

Transmission of audio- and fax data is always done via UDP. The audio frames are encapsulated into RTP (Realtime Protocol) packets and the fax data is transmitted via the T.38 protocol. Both protocols (RTP and T.38) are using UDP for transmission.

Please keep in mind, that the CallControl is always done via the SwyxServer itself, but the audio- and fax data is send directly between the two connected clients.

The attached file show for all SwyxWare components the used ports and type of transport for CallControl and audio-/fax data. In case it's possible to configure them, this will be mentioned.

This article is updated with each release of a Swyx 14 version and is valid for this version.

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 (< SwyxWare 14.00)

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 (< SwyxWare 14.00)

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	used with Version	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
Authentication Gateway Google	HTTPS	TCP	Any	oauth2.googleapis.com:443		>= PNS 2.1.0.0 or Swyxware 14.00	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 Since 13.30: Part of CPE_ippbx_cpe.rcconfig in the DB
------------------	--	-----	---	---	--

Inbound

Classification	Protocol	Type	Port (source)	Port (target)	Configurable via	Comment
Tunnel (WAN EP)	TLS	TCP	Any IP:Any Port	16203, 57203	Until 13.30: Registry: TunnelListeningPorts Since 13.30: Part of IpPbxConnectSrv.rcconfig in the DB	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
Communication with SwyxIt! (localhost - 127.0.0.1)	SignalR	TCP	Any	12042 (default) Alternative ports if default is blocked: 17042, 22042, 27042, 32042, 37042, 42042		Needed if new SwyxIt! is used
Communication with SwyxIt! (localhost - 127.0.0.1) in Microsoft Remote Desktop Services environment	SignalR	TCP	Any	random port		Needed if new SwyxIt! is used

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	12042 (default) Alternative ports if default is blocked: 17042, 22042, 27042, 32042, 37042, 42042		
Communication with SwyxIt! (localhost - 127.0.0.1) in	SignalR	TCP	Any	random port		

Microsoft Remote Desktop Services environment						
---	--	--	--	--	--	--

Swyxit 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	5000 - 5020 (mostly 5012, 5013)	Any		
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
Audio	RTP	UDP	Any	5000 - 5020 (mostly 5012, 5013)

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	>= SwyxWare v13.30 SwyxON	WAN access

				remote01.swyxon.com : Any Port ... remote10.swyxon.com : Any Port		
--	--	--	--	---	--	--

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	50000-65535	Any IP:Any Port		(before v3.0.0: 1025-65535)
-------	-----	-----	-------------	-----------------	--	-----------------------------

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- 65535	(before v3.0.0: 1025-65535)

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	50000-65535	Any IP:Any Port		Swyx Desktop and Swyx Mobile before v2.3.8: 1025-65535

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	50000-65535	Swyx Desktop and Swyx Mobile before v2.3.8: 1025-65535

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

Enreach DECT 600

Outbound

Classification	Protocol	Type	Port (source)	Port (target)	Configurable via	Comment
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	
Swyx RPS	HTTPS	TCP	Any	https://phone.swyx.com:443		WAN access
REST API (Authentication)	HTTPS	TCP	Any	IpPbxSrv IP:9101		
REST API	HTTPS	TCP	Any	IpPbxSrv IP:9100		
Provisioning	HTTP	TCP	Any	IpPbxSrv IP:9200		
PhoneBook	LDAPS	TLS	Any	636		

Firmware download	HTTP	TCP	Any	any to 80		WAN access
Firmware download	HTTPS	TLS	Any	any to 443		WAN access

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 (traditional 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 install-service.ps1 script parameter. Note that the IP the service is listening depends on configuration, e.g. parameter of the install-service.ps1 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		