

FAQ: Which Ports are used by SwyxWare 2013?

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 signaling, 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 faxdata

The ConfigDataStore is implemented as a Webservice which means, that all clients access the service via a wellknown 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 faxdata is always done via UDP. The audioframes are encapsulated into RTP (RealTimeProtocol) packets and the faxdata 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 faxdata is send directly between the two connected clients.

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

If port "undetermined, outgoing" for CDS is mentioned in the following tables it means, that only outgoing traffic from a random port towards the CDS "well-known" ports 9094 and 9095 (SDC) will be done.

SwyxServer:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	UDP + TCP	5060, wellknown	
Audio	RTP	UDP	51000 - 51499	Registry: RTPFirstPort, RTPLastPort
Master/Standby	KeepAlive	TCP	65010	Registry: StandbyPort
IntersitePresence	CDS	TCP	9093	

ConfigDataStore-Service (CDS):

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	9094, 9095 (SDC)	

SwyxGate:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	TCP	5064	Registry: LowerBoundSipPort, UpperBoundSipPort
Audio/Fax	RTP + T.38	UDP	52000 - 52499	

LinkManager:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl (lokaler EP)	SIP	UDP + TCP	65001	Registry: TcpPortOfLocalSipEndpoint
CallControl (remote EP)	SIP	UDP + TCP	65002	Registry: TcpPortOfRemoteSipEndpoint
Audio/Fax	RTP + T.38	UDP	55000 – 56000	Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp

ConferenceManager:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	TCP	5062	Registry: LowerBoundSipPort, UpperBoundSipPort
Audio	RTP	UDP	56000 – 57000	Registry: LowerBoundMediaPortUdp, UpperBoundMediaPortUdp

PhoneManager:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	CorNet TC	TCP, TLS	4060, 4061	
CallControl	H.323	TCP, TLS	1300, 1720, 1721	
CallControl	SIP	UDP + TCP	65007	SipCallSignalingPort
Configuration	DLS	TCP	18443	

SwyxFaxServer:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	TCP	61000	Registry: LowerBoundSipPort, UpperBoundSipPort
Fax	RTP + T.38	UDP	2000 - 8000	

SwyxFax PrinterGateway:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	

MobileExtensionManager (MEM):

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	UDP + TCP	5070 – 5170	Registry: SipListenerPort
Audio	RTP	UDP	50000 – 50999	Registry: PortrangeBegin, PortrangeEnd

SwyxCTI+:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	UDP + TCP	65009	Registry: SipCallSignalingPort
Audio	RTP	UDP	60000 - 60100	

SwyxIt!/SwyxFaxClient:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
CallControl	SIP	UDP + TCP	5070 – 5170	Registry: SIPListenerPort
Audio/Video	RTP	UDP	50000 – 50999	Registry: PortrangeBegin, PortrangeEnd
VisualContacts	LDAP	TCP + UDP	Sourceport undetermined, destination 712	

SwyxWare Administration:

Classification	Protocol	Typ	Port	Configurable via
Configuration	CDS	TCP	Undetermined, outgoing*	
FW-Check	FTP	TCP	Sourceport Undetermined	

SwyxPhone L4xx; L5xx; L6xx:

Classification	Protocol	Typ	Port	Configurable via
CallControl	CorNet	TCP, TLS	4060, 4061	
CallControl	H.323/H.225	TCP, TLS	1300, 1720, 1721	
Configuration	HTTP	TCP, TLS	8085	
Audio	RTP	UDP	5000-5020 (meist 5012/13)	
FW-Update	FTP	TCP	Sourceport undetermined, destination 21	
Time	NTP	UDP	Sourceport undetermined, destination 123	

SwyxPhone S315:

Classification	Protocol	Typ	Port	Configurable via
CallControl	SIP	UDP + TCP	5060	WebInterface
Audio	RTP	UDP	5000 – 5009, 5060	WebInterface

SwyxDect 500:

Classification	Protocol	Typ	Port	Configurable via
CallControl	SIP	UDP + TCP	5060	WebInterface
Audio	RTP	UDP	50004 - 50044	WebInterface

SwyxDect 800:

Classification	Protocol	Typ	Port	Configurable via
CallControl	H.323/RAS/SIP	UDP	2048 – 65535	
CallControl	H.323/H.225/SIP	TCP	2048 – 65535	
Audio	RTP	UDP	16384 – 32767	WebInterface

SwyxConnect (172x):

Classification	Protocol	Typ	Port	Configurable via
CallControl	SIP	UDP + TCP	5060	
Audio/Fax/General	RTP + T.38	UDP	32768 – 49151	
General		TCP	3072 – 19455	
Masquerading		UDP + TCP	53248 – 57343	

SwyxConnect (6xxx):

Classification	Protocol	Typ	Port	Configurable via
CallControl	SIP	UDP + TCP	5060, 5061, 5080, 5081	Refer to manual for details
Audio/Fax/General	RTP + T.38	UDP	6000 – (6000+(channels-1)*10)	BaseUDPPort Refer to manual for details

MediaPack (MP-1xy):

Classification	Protocol	Typ	Port	Configurable via
CallControl	SIP	UDP + TCP	5060, 5061	LocalSIPPort, Refer to manual for details
Audio/Fax/General	RTP + T.38	UDP	6000 – (6000+10*(device channels))	BaseUDPPort Refer to manual for details

History of Changes

Date	Author	Remarks
04.07.2013	SD	Added CTI+ Service, SwyxFax PrinterGateway and SwyxDect 500, Changed ports for CDS and SwyxFax Server.

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