



Smart Business Connect - used ports for communication services

Updated: 22.11.2023

Service	Protocol	Clients		Platform (Core)		Description
		Device	Ports	Device	Ports	
SIP Phones	SIP	Yealink, Mitel, Panasonic, Mediatrix	UDP/TCP >1024	phone.join.swisscom.ch sphone.join.swisscom.ch	UDP/TCP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Yealink, Mitel, Panasonic, Mediatrix	UDP/TCP >1024	phone.join.swisscom.ch sphone.join.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
	XML	Yealink, Mitel	HTTPS	bcs.join.swisscom.ch	TCP 443	
	XSI	Yealink, Mitel, Panasonic	HTTPS	was3.join.swisscom.ch	TCP 443	
TAPI CTI (5.0.7.xxx or higher) Mondago Go Integrator Cara (CTI)	OCI-P/C	Estos ECSTA Go Integrator Cara	TCP Socket	was3.join.swisscom.ch	TCP 8012, 443	Used to access the internet from a PC (data functions)
Router Centro Business for ATA SIP TA ISDN TA	SIP	Centro Business	UDP/TCP >1024	phone.join.swisscom.ch sphone.join.swisscom.ch	UDP/TCP 5060 UDP/TCP 5061	To establish a session from the router to the SIP proxy
	RTP	Centro Business	>1024	phone.join.swisscom.ch sphone.join.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
	TR-069	Centro Business	HTTPS	rms.bluewin.ch	TCP 8443	This is used to synchronize the device-configuration.
Enterprise Telephony App	SIP	Enterprise Telephony App	UDP/TCP	softphone.join.swisscom.ch softphone.join.swisscom.ch	UDP/TCP 5075, 5076	To establish a session from the router to the SIP proxy
	RTP	Enterprise Telephony App	UDP/TCP 8500 - 10000	softphone.join.swisscom.ch softphone.join.swisscom.ch	UDP/TCP 10000 - 65000	Where voice transmission takes place (voice protocol from router to voice server)
	XSI	Enterprise Telephony App	HTTPS	was1.join.swisscom.ch	TCP 443	BroadWorks features like BroadWorks Directory, call log and configuration for call forwardings
	XSI	Enterprise Telephony App	HTTPS	xsiproxy-het- prod.scapp.swisscom.com	TCP 443	BroadWorks features like BroadWorks Directory, call log and configuration for call forwardings
	LDAPS	Enterprise Telephony App	LDAPS	svc.gold.abba.swisscom.ch	TCP 636	To access Swisscom address book
	STUN	Enterprise Telephony App	UDP 3478	stun.join.swisscom.ch	UDP 3478	STUN - Simple Traversal of UDP through NAT
	HTTPS	Enterprise Telephony App	TCP 443	was4.join.swisscom.ch	TCP 443	Softclient functionality like login, push notification subscription, support services (log upload, help desk assistant)
	HTTPS	Enterprise Telephony App	TCP 443	v-str-push-0101.join.swisscom.ch v-str-push-0102.join.swisscom.ch	TCP 443	PushNotification Websocket (WSS) for incoming calls on mobile devices
Receptionist	XSI	Receptionist	HTTPS	was2.join.swisscom.ch	TCP 443	Internet access from PC to Internet for the Receptionist application (data functions)
	BOSH	Receptionist	OUT	imp*.join.swisscom.ch	TCP 5281	Used for bidirectional streams over synchronous HTTPS connections
Techn. Admin. Portal		Browser	HTTPS	KUCE	TCP 443	
EndkundenPortal		Browser	HTTPS	KUCE	TCP 443	
Trunk eSBC	SIP	Cisco 881 und ISR4321	UDP/TCP >1024	trunk.join.swisscom.ch strunk.join.swisscom.ch	TCP/UDP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Cisco 881 und ISR4321	UDP/TCP >1024	trunk.join.swisscom.ch strunk.join.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
Trunk direct	SIP	Mitel 400	UDP/TCP >1024	trunk.join.swisscom.ch strunk.join.swisscom.ch	TCP/UDP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Mitel 400	UDP/TCP >1024	trunk.join.swisscom.ch strunk.join.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
Trunk over IP+	SIP	Mitel 400; Cisco 881; ISR4321	UDP/TCP >1024	trunk.join.swisscom.ch strunk.join.swisscom.ch	TCP/UDP 5060 TCP/UDP 5061	To establish a session from the router to the SIP proxy
	RTP	Mitel 400; Cisco 881; ISR4321	UDP/TCP >1024	trunk.join.swisscom.ch strunk.join.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
Time Sync.	NTP	Yealink, Mitel, Panasonic, Mediatrix, Cisco	NTP	bnwtp*.bluewin.ch ch.pool.ntp.org	NTP	Is needed to synchronize the time with the time server of Swisscom (time synchronization).
Config/Firmware, Upgrade	HTTPS TR-069	Yealink, Mitel, Panasonic, Mediatrix, Trunk	HTTPS	bcs.join.swisscom.ch	TCP 443 TCP 8443	Used to synchronize the device-configuration.
	HTTP	Yealink, Mitel, Panasonic, Mediatrix, Cisco Trunk	HTTP	het-cds.swisscom.ch	TCP 80	Required to access the Internet for firmware upgrades
Device Redirection Server	HTTPS	Yealink, Mitel, Panasonic	HTTPS	https://rcs.aastra.com https://rps.yealink.com https://provisioning.e-connecting.net	TCP 443	Internet access for specific initial provisioning of the terminal device

Protocols

SIP	Session Initiation Protocol (signalling)
RTP	Real Time Transport (voice transmission)
HTTP	Hyper Text Transfer Protocol (internet)
HTTPS	Hyper Text Transfer Protocol Secure (secure internet)
NTP	Network Time Protocol
FTP	File Transfer Protocol
TR-069	Data transfer between provisioning-server and terminal device
XSI	Xtended Services Interface - platform specific protocol
XML	Extensible Markup Language (markup language for presentation)
OCI-P/C	Open Client Interface Protocol - platform specific protocol

Devices

Mitel 6730/6731/6739/6753/6755/6757/
Mitel 6863/6865/6867/6869/
Yealink T53/T54W/T57W
Yealink T42G/T46G/T48G/T42S/T46S/T48S
Yealink CP860/CP920/W60B/W70B/W90
Media5 Mediatrix 2/16
Panasonic KX-TGP500/KX-TGP600
Panasonic KX-UDS124
Business Communication App/Client (Softclient)
Enterprise Telephony App/Client (Softclient)

Firewall + Network	<ul style="list-style-type: none"> - No need to open ports from WAN to LAN - All connections are opened from the terminal device (LAN to WAN) - Reserved IP Range (SIP and RTP) 194.209.29.192/26 - Reserved IP range with IP+ (SIP and RTP) 193.135.14.128/27, 193.135.14.160/27, 193.135.14.192/27 - Ensure that an MTU of 1500 bytes or fragmentation is possible over the entire route where SIP packets are sent (especially with VPN connections). - Turn off SIP-ALG or at least the SIP header transformation (no SIP packets may be manipulated). Consult your firewall manufacturer for more information. - SIP Media Timeout / UDP Timeout must be configured to over 180s - SIP Media Timeout / UDP Timeout must be configured to over 180s - Firewall UTM functions (e.g. SSL/TLS inspection, DNS filter, etc.) must be switched off for SBCON terminal devices
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Managed Business Communication - used ports for communication services

Updated: 22.11.2023

Service	Protocol	Clients		Platform (Core)		Description
		Device	Ports	Device	Ports	
SIP Phones	SIP	Yealink, Mitel, Panasonic, Mediatrix	UDP/TCP >1024	slip.join.swisscom.ch ssip.join.swisscom.ch	UDP/TCP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Yealink, Mitel, Panasonic, Mediatrix	UDP/TCP >1024	slip.join.swisscom.ch ssip.join.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
	XML	Yealink, Mitel	HTTPS	acs.join.swisscom.ch	TCP 443	
	XSI	Yealink, Mitel	HTTPS	was3.join.swisscom.ch	TCP 443	
TAPI CTI (5.0.7.xxx or higher) Mondago Go Integrator Cara (CTI)	OCI-P/C	Estos ECSTA Go Integrator Cara	TCP Socket	was3.join.swisscom.ch	TCP 8012, 443	Used to access the internet from a PC (data functions)
Enterprise Telephony App	SIP	Enterprise Telephony App	UDP/TCP	softphone.join.swisscom.ch ssoftphone.join.swisscom.ch	UDP/TCP 5075, 5076	To establish a session from the router to the SIP proxy
	RTP	Enterprise Telephony App	UDP/TCP 8500 - 10000	softphone.join.swisscom.ch ssoftphone.join.swisscom.ch	UDP/TCP 10000 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
	XSI	Enterprise Telephony App	HTTPS	was1.join.swisscom.ch	TCP 443	BroadWorks features like BroadWorks Directory, call log and configuration for call forwardings
	XSI	Enterprise Telephony App	HTTPS	xsiproxy-het-prod.scapp.swisscom.com	TCP 443	BroadWorks features like BroadWorks Directory, call log and configuration for call forwardings
	LDAPS	Enterprise Telephony App	LDAPS	svc.gold.abba.swisscom.ch	TCP 636	To access Swisscom address book
	STUN	Enterprise Telephony App	UDP 3478	stun.join.swisscom.ch	UDP 3478	STUN - Simple Traversal of UDP through NAT
	HTTPS	Enterprise Telephony App	TCP 443	was4.join.swisscom.ch	TCP 443	Softclient functionality like login, push notification subscription, support services (log upload, help desk assistant)
	HTTPS	Enterprise Telephony App	TCP 443	v-str-push-0101.join.swisscom.ch v-str-push-0102.join.swisscom.ch	TCP 443	PushNotification Websocket (WSS) for incoming calls on mobile devices
Receptionist	XSI	Receptionist	HTTPS	was2.join.swisscom.ch	TCP 443	Internet access from PC to Internet for the Receptionist application (data functions)
	BOSH	Receptionist	OUT	imp*.join.swisscom.ch	TCP 5281	Used for bidirectional streams over synchronous HTTPS connections
Techn. Admin. Portal	Browser		HTTPS	Extranet	TCP 443	
EndkundenPortal	Browser		HTTPS	Extranet	TCP 443	
Time Sync.	NTP	Yealink, Mitel, Panasonic, Mediatrix	NTP	bwntp*.bluewin.ch ch.pool.ntp.org	NTP	Is needed to synchronize the time with the time server of Swisscom (time synchronization).
Config/Firmware, Upgrade	HTTPS TR-069	Yealink, Mitel, Panasonic, Mediatrix	HTTPS	acs.join.swisscom.ch	TCP 443 TCP 8443	Used to synchronize the device-configuration
	HTTP	Yealink, Mitel, Panasonic, Mediatrix	HTTP	het-cds.swisscom.ch	TCP 80	Required to access the Internet for firmware upgrades
Device Redirection Server	HTTPS	Yealink, Mitel, Panasonic	HTTPS	https://fcs.aastra.com https://tps.yealink.com https://provisioning.e-connecting.net	TCP 443	Internet access for specific initial provisioning of the terminal device

Protocols	
SIP	Session Initiation Protocol (signalling)
RTP	Real Time Transport (voice transmission)
HTTP	Hyper Text Transfer Protocol (internet)
HTTPS	Hyper Text Transfer Protocol Secure (secure internet)
NTP	Network Time Protocol
FTP	File Transfer Protocol
TR-069	Data transfer between provisioning-server and terminal device
XSI	Extended Services Interface - platform specific protocol
XML	Extensible Markup Language (markup language for presentation)
OCI-P/C	Open Client Interface Protocol - platform specific protocol

Devices
Mitel 6865/6867/
Yealink T42G/46G/T425/T46S
Yealink T53/T54W
Yealink CP860/CP920
Media5 Mediatrix 2/16
Panasonic KX-TGP500/KX-TGP600
Panasonic KX-UD5124
Business Communication App/Client (Softclient)
Enterprise Telephony App/Client (Softclient)

Firewall + Network	
	- No need to open ports from WAN to LAN
	- All connections are opened from the terminal device (LAN to WAN)
	- Reserved IP Range (SIP and RTP) 194.209.29.192/26
	- Ensure that an MTU of 1500 bytes or fragmentation is possible over the entire route where SIP packets are sent (especially with VPN connections).
	- Turn off SIP-ALG or at least the SIP header transformation (no SIP packets may be manipulated). Consult your firewall manufacturer for more information.
	- SIP Media Timeout / UDP Timeout must be configured to over 180s
	- Firewall UTM functions (e.g. SSL/TLS inspection, DNS filter, etc.) must be switched off for SBCON terminal devices



Smart Business Connect - used ports for communication services on EAPP

Updated: 22.11.2023

Service	Protocol	Clients		Platform (Core)		Description
		Device	Ports	Device	Ports	
SIP Phones	SIP	Yealink, Mitel, Panasonic, Mediatrix	UDP/TCP >1024	phone.joineapp.swisscom.ch sphone.joineapp.swisscom.ch	UDP/TCP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Yealink, Mitel, Panasonic, Mediatrix	UDP/TCP >1024	phone.joineapp.swisscom.ch sphone.joineapp.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
	XML	Yealink, Mitel	HTTPS	bcs.join.swisscom.ch	TCP 443	
	XSI	Yealink, Mitel	HTTPS	was3.joineapp.swisscom.ch	TCP 443	
TAPI CTI (5.0.7.xxx or higher) Mondago Go Integrator Cara (CTI)	OCI-P/C	Estos ECSTA Go Integrator Cara	TCP Socket	was3.joineapp.swisscom.ch	TCP 8012, 443	Used to access the internet from a PC (data functions)
Router Centro Business for ATA SIP TA ISDN TA	SIP	Centro Business	UDP/TCP >1024	phone.joineapp.swisscom.ch sphone.joineapp.swisscom.ch	UDP/TCP 5060 UDP/TCP 5061	To establish a session from the router to the SIP proxy
	RTP	Centro Business	>1024	phone.joineapp.swisscom.ch sphone.joineapp.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
	TR-069	Centro Business	HTTPS	rms.bluewin.ch	TCP 8443	Used to synchronize the device-configuration
Enterprise Telephony App	SIP	Enterprise Telephony App	UDP/TCP	softphone.joineapp.swisscom.ch ssoftphone.joineapp.swisscom.ch	UDP/TCP 5075, 5076	To establish a session from the router to the SIP proxy
	RTP	Enterprise Telephony App	UDP/TCP 8500 - 10000	softphone.joineapp.swisscom.ch ssoftphone.joineapp.swisscom.ch	UDP/TCP 10000 - 65000	Where voice transmission takes place (voice protocol from router to voice server)
	XSI	Enterprise Telephony App	HTTPS	was1.joineapp.swisscom.ch	TCP 443	Used to access Broadworks Features & Broadworks Directory
	XSI	Enterprise Telephony App	HTTPS	xsiproxy-eapp-prod.scapp.swisscom.com	TCP 443	BroadWorks features like BroadWorks Directory, call log and configuration for call forwardings
	LDAPS	Enterprise Telephony App	LDAPS	svc.gold.abba.swisscom.ch	TCP 636	To access Swisscom address book
	STUN	Enterprise Telephony App	UDP 3478	stun.joineapp.swisscom.ch	UDP 3478	STUN - Simple Traversal of UDP through NAT
	HTTPS	Enterprise Telephony App	TCP 443	was4.join.swisscom.ch	TCP 443	Softclient functionality like login, push notification subscription, support services (log upload, help desk assistant)
	HTTPS	Enterprise Telephony App	TCP 443	v-str-push-0101.join.swisscom.ch v-str-push-0102.join.swisscom.ch	TCP 443	PushNotification Websocket (WSS) for incoming calls on mobile devices
Receptionist	XSI	Receptionist	HTTPS	was2.joineapp.swisscom.ch	TCP 443	Internet access from PC to Internet for the Receptionist application (data functions)
Techn. Admin. Portal		Browser	HTTPS	KUICE	TCP 443	
EndkundenPortal		Browser	HTTPS	KUICE	TCP 443	
Trunk eSBC	SIP	Cisco 881 und ISR4321	UDP/TCP >1024	trunk.joineapp.swisscom.ch strunk.joineapp.swisscom.ch	TCP/UDP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Cisco 881 und ISR4321	UDP/TCP >1024	trunk.joineapp.swisscom.ch strunk.joineapp.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
Trunk direct	SIP	Mitel 400	UDP/TCP >1024	trunk.joineapp.swisscom.ch strunk.joineapp.swisscom.ch	TCP/UDP 5060, 5061	To establish a session from the router to the SIP proxy
	RTP	Mitel 400	UDP/TCP >1024	trunk.joineapp.swisscom.ch strunk.joineapp.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
Trunk over IP+	SIP	Mitel 400; Cisco 881; ISR4321	UDP/TCP >1024	trunk.joineapp.swisscom.ch strunk.joineapp.swisscom.ch	TCP/UDP 5060 TCP/UDP 5061	To establish a session from the router to the SIP proxy
	RTP	Mitel 400; Cisco 881; ISR4321	UDP/TCP >1024	trunk.joineapp.swisscom.ch strunk.joineapp.swisscom.ch	UDP/TCP 16384 - 65535	Where voice transmission takes place (voice protocol from router to voice server)
Time Sync.	NTP	Yealink, Mitel, Panasonic, Mediatrix, Cisco	NTP	bwntp*.bluewin.ch ch.pool.ntp.org	NTP	Is needed to synchronize the time with the time server of Swisscom (time synchronization).
Config/Firmware, Upgrade	HTTPS	Yealink, Mitel, Panasonic, Mediatrix, Trunk	HTTPS	bcs.join.swisscom.ch	TCP 443 TCP 8443	Used to synchronize the device-configuration
	HTTP	Yealink, Mitel, Panasonic, Mediatrix, Cisco Trunk	HTTP	het-cds.swisscom.ch	TCP 80	Required to access the Internet for firmware upgrades
Device Redirection Server	HTTPS	Yealink, Mitel, Panasonic	HTTPS	https://rcs.aastra.com https://rps.yealink.com https://provisioning.e-connecting.net	TCP 443	Internet access for specific initial provisioning of the terminal device

Protocols	
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TR-069	Data Transfer between provisioning-server and terminal device
XSI	xtended Services Interface - platform specific protocol
XML	
OCI-P/C	Open Client Interface Protocol - platform specific protocol

Devices
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Mitel 6863/6865/6867/6869/
Yealink T53/T54W/T57W
Yealink T42G/T46G/T48G/T42S/T46S/T48S
Yealink CP860/CP920/W60B/W70B/W90
Media5 Mediatrix 2/16
Panasonic KX-TGP500/KX-TGP600
Panasonic KX-UDS124

Firewall + Network	
	- No need to open ports from WAN to LAN
	- All connections are opened from the terminal device (LAN to WAN)
	- Reserved IP Range (SIP and RTP) 194.209.29.192/26
	- Reserved IP range with IP+ (SIP and RTP) 193.135.14.128/27, 193.135.14.160/27, 193.135.14.192/27
	- Ensure that an MTU of 1500 bytes or fragmentation is possible over the entire route where SIP packets are sent (especially with VPN connections).
	- Turn off SIP-ALG or at least the SIP header transformation (no SIP packets may be manipulated). Consult your firewall manufacturer for more information.
	- SIP Media Timeout / UDP Timeout must be configured to over 180s
	- Firewall UTM functions (e.g. SSL/TLS inspection, DNS filter, etc.) must be switched off for SBCON terminal devices



InONE KMU/PME Office - Used Ports

Updated: 22.11.2023

Service	Protocol	Clients		Platform (Core)		Description
		Device	Ports	Device	Ports	
Enterprise Telephony App	SIP	Enterprise Telephony App	UDP/TCP	sc1.ims.swisscom.ch ssc1.ims.swisscom.ch	UDP/TCP 5075, 5076	To establish a session from the router to the SIP proxy
	RTP	Enterprise Telephony App	UDP/TCP 8500 - 10000	sc1.ims.swisscom.ch ssc1.ims.swisscom.ch	UDP/TCP 10000 - 65000	Where voice transmission takes place (voice protocol from router to voice server)
	XSI	Enterprise Telephony App	HTTPS	btbc.swisscom.ch	TCP 443	BroadWorks features like Call-Log and configuration for call forwardings
	LDAPS	Enterprise Telephony App	LDAPS	svc.gold.abba.swisscom.ch	TCP 636	To access Swisscom address book
	HTTPS	Enterprise Telephony App	TCP 443	was4.join.swisscom.ch	TCP 443	Softclient functionality like login, push notification susbcription, support services (log upload, help desk assistant)
	HTTPS	Enterprise Telephony App	TCP 443	v-str-push-0101.join.swisscom.ch v-str-push-0102.join.swisscom.ch	TCP 443	PushNotification Websocket (WSS) for incoming calls on mobile devices