



## TCP & UDP Ports used by Zultys Equipment

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This document covers all ports used by Zultys MX250, MX-SE, MX30, MXv, MX Cloud Services, MXmeeting, MG, MXIE, ZIP5xi, ZIP3xi and older phones.

## 1 MX250, MX30 & MX-SE Media Exchange

TYPE	PORT	DIRECTION	USAGE
TCP	22	Incoming	Member Nodes -> Cluster Master
TCP	22	Outgoing	Cluster Master -> Member Nodes
TCP	22	Both	Runtime Console Mode
TCP	22	Both	MX Administrator -> tts.zultys-support.com for Text-to-Speech for Auto Attendant Audio Files Creation
TCP	25	Outgoing	Emailed message notifications (outgoing SMTP connection)
TCP	50	Both	IPSec ESP (VPN)
UDP	67	Both	DHCP
UDP	69	Both	TFTP
UDP	75	Both	MX Cluster (communication between members)
TCP	80	Both	MX250 system's internal web server, Archive Server , MXreport (incoming)
UDP	123	Both	NTP
TCP	389	Both	LDAP
UDP	500	Both	IPSec IKE (VPN)
UDP	514*	Both	Syslog*
TCP	636	Both	LDAP
TCP	3306	Both	MySQL database (for running CDR reports), Archive Server, Call Recording, MXreport
UDP	3771	Outgoing	Paging to ZIP2x2 / ZIP4x4 / MXIE Windows softphone
UDP	5060*	Both	SIP*
UDP	5061	Both	MXvideo/TLS
TCP	7100-7156	Incoming	MXIE and MX Administrator, Archive Server, MXreport (7100 only)

TYPE	PORT	DIRECTION	USAGE
TCP	Arbitrary	Outgoing	MX Administrator
TCP	7500	Both	MXnetwork (communication between members)
TCP	7505	Both	MXIE, MX Administrator, MXreport
TCP	7778	Both	MXmobile / Zultys Mobile / Zultys Salesforce CommunicatorV1-V2 / Zultys Outlook Communicator / CSTA
TCP	7779	Both	Zultys Salesforce Communicator V3 OpenCTI, WebChat multi-media queue feature
TCP	7880	Both	MSEC 3.0 service & UI communication
TCP	8000	Incoming	MXmobile version 5.2 and below(HTML), Archive Server, download files from web interface
TCP	8080	Incoming	MXmobile version 5.4 and above (HTML), Archive Server, MXreport, download files from web interface
TCP	8081	Incoming	XML Directory for ZIP5 series phones (HTML)
TCP	8090	Incoming	IVR Demo (HTML)
UDP	20000-20999*	Both	RTP and RTCP for internal calls* and Video
UDP	21000 - 21239*	Both	RTP and RTCP for SIP Trunks* and Video

\*Indicates that the port can be changed. Zultys does not recommend changing the RTP port range for the SBC.

**NOTE:** The MX Administrator software is run from a PC connected to the MX. It connects on TCP ports 7100-7156, 7117, 7505 and 3306. The software connects to the MX250, the mail server specified under *Configure -> Email Notification* when testing the account settings, and to [tts.zultys-support.com](mailto:tts.zultys-support.com) on TCP port 22 (SSH) when creating text-to-speech audio files for the Auto Attendant.

## 2 MXIE Client

TYPE	PORT	DIRECTION	USAGE
TCP	7100	MXIE-> MX	Connection to MX
TCP	7117	MXIE-> MX	Connection to MX
TCP	7505	MXIE-> MX	Connection to MX
TCP	3306	Both	MySQL database (for running CDR reports), Archive Server, Call Recordings

### 2.1 When Softphone is Active

TYPE	PORT	DIRECTION	USAGE
UDP	3771	Both	Paging
UDP	5060*	Both	SIP
UDP	33000– 33070	Both	RTP and RTCP

\*Indicates that the port can be changed.

### 2.2 When Video is Active

TYPE	PORT	DIRECTION	USAGE
UDP	5061*	Both	SIP
UDP	33000– 33070	Both	RTP

\*Indicates that the port can be changed.

### 3 MXmeeting

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	MXmeeing internal web server/Conference
UDP	67	Incoming	DHCP
UDP	123	Incoming	NTP
TCP	443	Incoming	MXmeeing internal secure web server/Conference
TCP	8889	Incoming	MXmeeing internal secure web server/Conference
UDP	8889	Incoming	MXmeeing internal secure web server/Conference

### 4 MG Gateway

TYPE	PORT	DIRECTION	USAGE
TCP	22**	Both	SSH
TCP	23***	Both	Telnet
TCP	80	Incoming	MG gateway's internal web server
TCP	443**	Incoming	MG gateway's internal secure web server
UDP	67	Incoming	DHCP
UDP	123	Incoming	NTP
UDP	5060*	Both	SIP
UDP	20000*	Both	RTP and RTCP

\*Indicates that the port can be changed.

\*\* MKII version only

\*\*\*Recommended to be disabled on MKII versions, will limit recovery option

## 5 Current Phones

### 5.1 ZIP 5xi SIP Phones

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	ZIP 5xi's internal web server
UDP	67	Incoming	DHCP
UDP	69	Incoming	TFTP
UDP	123	Incoming	NTP
UDP	5060	Both	SIP
UDP	3000*	Both	RTP and RTCP

\*Indicates that the port can be changed.

### 5.2 ZIP 3xi SIP Phones

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	ZIP 3xi's internal web server
TCP	443	Incoming	ZIP 3xi's internal web secure server
UDP	67	Incoming	DHCP
UDP	69	Incoming	TFTP
UDP	123	Incoming	NTP
UDP	514	Both	Syslog
UDP	5062	Both	SIP (will communicate with MX on 5060)
UDP	3000– 3040*	Both	RTP and RTCP

\*Indicates that the port can be changed.

## 6 Older Phones

### 6.1 ZIP 2x2 & 2x1 SIP Phones

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	ZIP 2xN's internal web server
UDP	67	Incoming	DHCP
UDP	69	Both	TFTP
UDP	123	Incoming	NTP
UDP	3771	Incoming	Paging
UDP	5060	Both	SIP
UDP	33000– 33070*	Both	RTP and RTCP

\*Indicates that the port can be changed.

### 6.2 ZIP 2+ SIP Phone

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	ZIP 2+'s internal web server
UDP	67	Incoming	DHCP
UDP	69	Both	TFTP
UDP	123	Incoming	NTP
UDP	3771	Incoming	Paging
UDP	5060	Both	SIP
UDP	33000– 33070*	Both	RTP and RTCP

\*Indicates that the port can be changed

### 6.3 ZIP 2 SIP Phone

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	ZIP 2's internal web server
UDP	67	Incoming	DHCP
UDP	69	Both	TFTP
UDP	123	Incoming	NTP
UDP	3771	Incoming	Paging
UDP	5060	Both	SIP
UDP	8000– 8100	Both	RTP and RTCP

### 6.4 ZIP 4x4L SIP Phone

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	ZIP 4x4L's internal web server
UDP	67	Incoming	DHCP
UDP	69	Both	TFTP
UDP	123	Incoming	NTP
UDP	3771	Incoming	Paging
UDP	5060	Both	SIP
UDP	33000– 33070*	Both	RTP and RTCP

\*Indicates that the port can be changed.



### 6.5 ZIP 4x4 SIP Phone

TYPE	PORT	DIRECTION	USAGE
UDP	67	Incoming	DHCP
UDP	69	Both	TFTP
UDP	123	Incoming	NTP
UDP	3771	Incoming	Paging
UDP	5060	Both	SIP
UDP	33000– 33070*	Both	RTP and RTCP

\*Indicates that the port can be changed.

### 6.6 ZIP 4x5 SIP Phone

TYPE	PORT	DIRECTION	USAGE
TCP	80	Incoming	Web server
UDP	67	Incoming	DHCP
UDP	69	Both	TFTP
UDP	123	Incoming	NTP
UDP	3771	Incoming	Paging
UDP	5060	Both	SIP
UDP	33000– 33070*	Both	RTP and RTCP

\*Indicates that the port can be changed.