

XO ITSP Quick Start Setup

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This document covers how to set up a XO account. For ITSP Accounts ALG is required. For further information on ALG please refer to the ALG documentation available from Zultys Technical Support

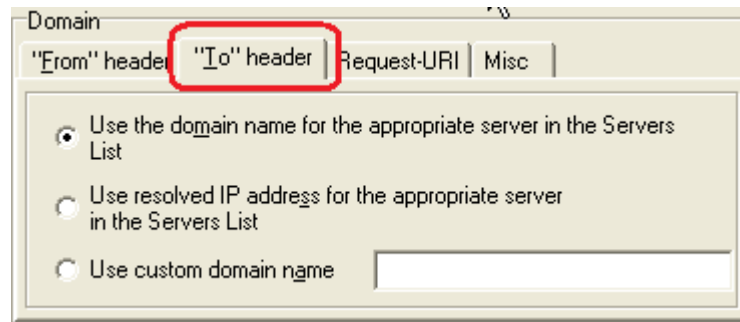
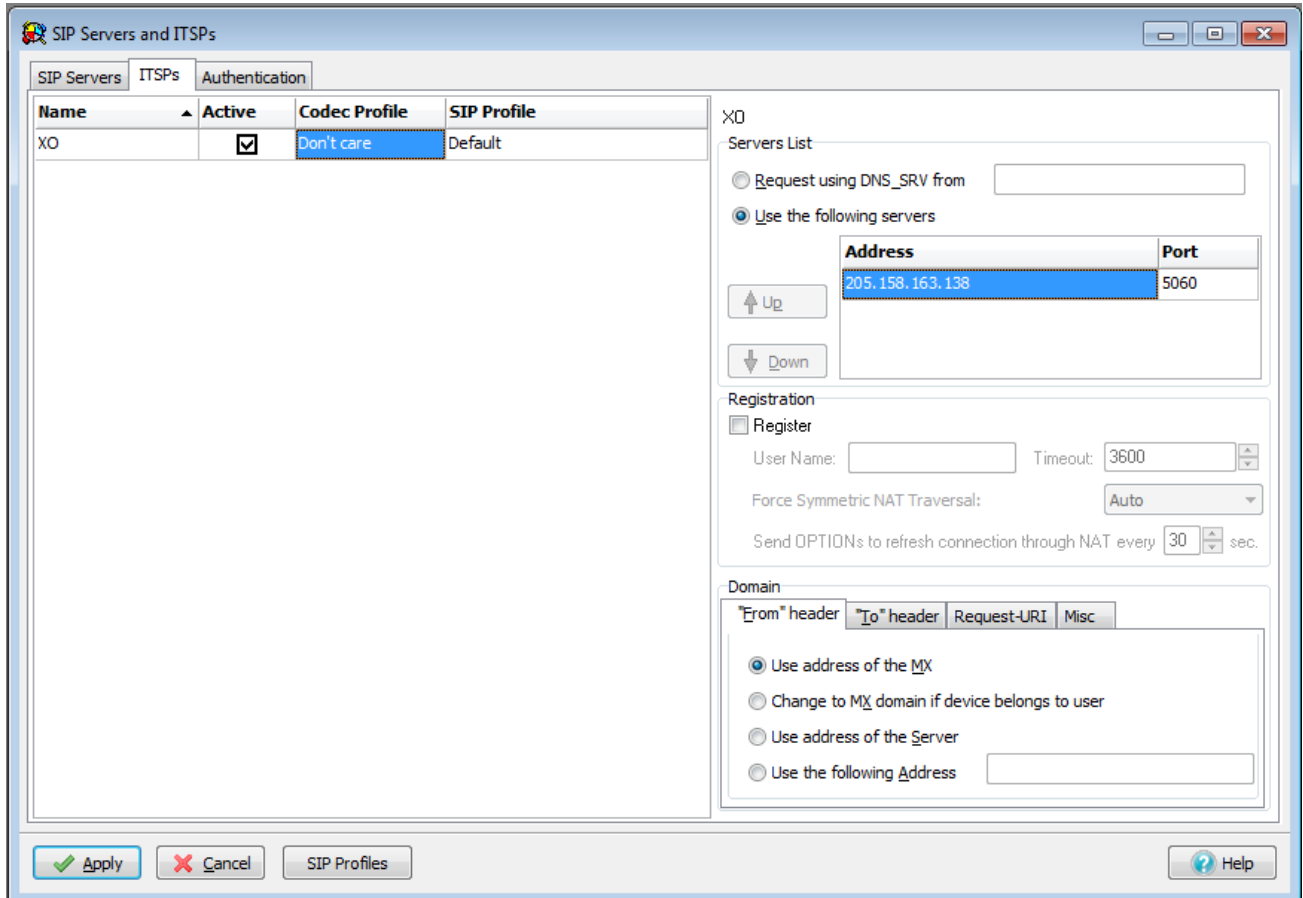
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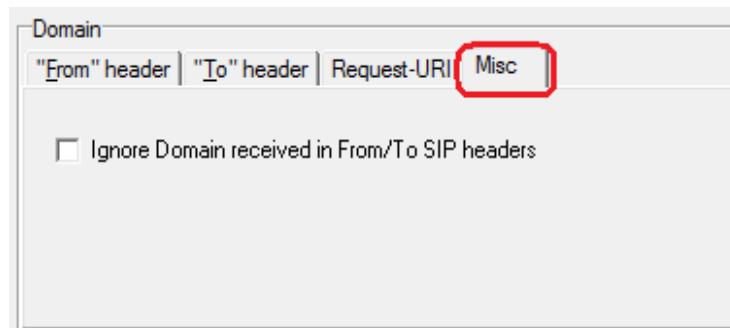
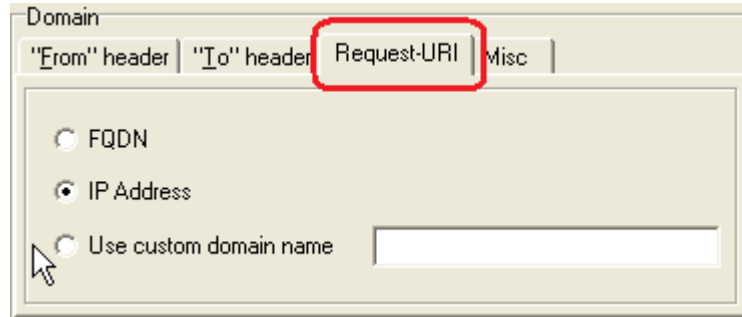
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1.1 ***Configure the account***

Enter the following information

- Name: XO
- Active: Check
- Codec Profile: Don't Care
- SIP Profile: Default
- Use the following servers: the IP address given to you by XO
- Port: 5060
- Register: Not used
- Username: Not used
- From header: Use the address of the MX
- To header: Use the domain name for the appropriate server in the Servers List
- Request-URI: IP Address
- Misc: nothing checked





1.2 Authentication

The authentication tab is not used with XO, as they do not use registration.

1.3 Set Up ALG (MX version 3.2.10 to 4.2.14)

Set up ALG in *Provision* | *ALG*

For the example below:

- Network 10.0.0.0/24 is the private side (LAN) of the MX, this is where all the local phones are connected to the MX.
- Network 0.0.0.0/24 is mapping all other network to the public side of the MX, thus performing the ALG functions to correct all RTP packets.

Application Layer Gateway

Use ALG for RTP traffic

public to private

private to public

Networks

IP Address	NML	Mask	Address Space
0.0.0.0	24	255.255.255.0	Public
10.0.0.0	24	255.255.255.0	Private

RTP Port Range

Starting Ending

1.4 Enabling ALG / SBC on MX (MX version 5.0+)

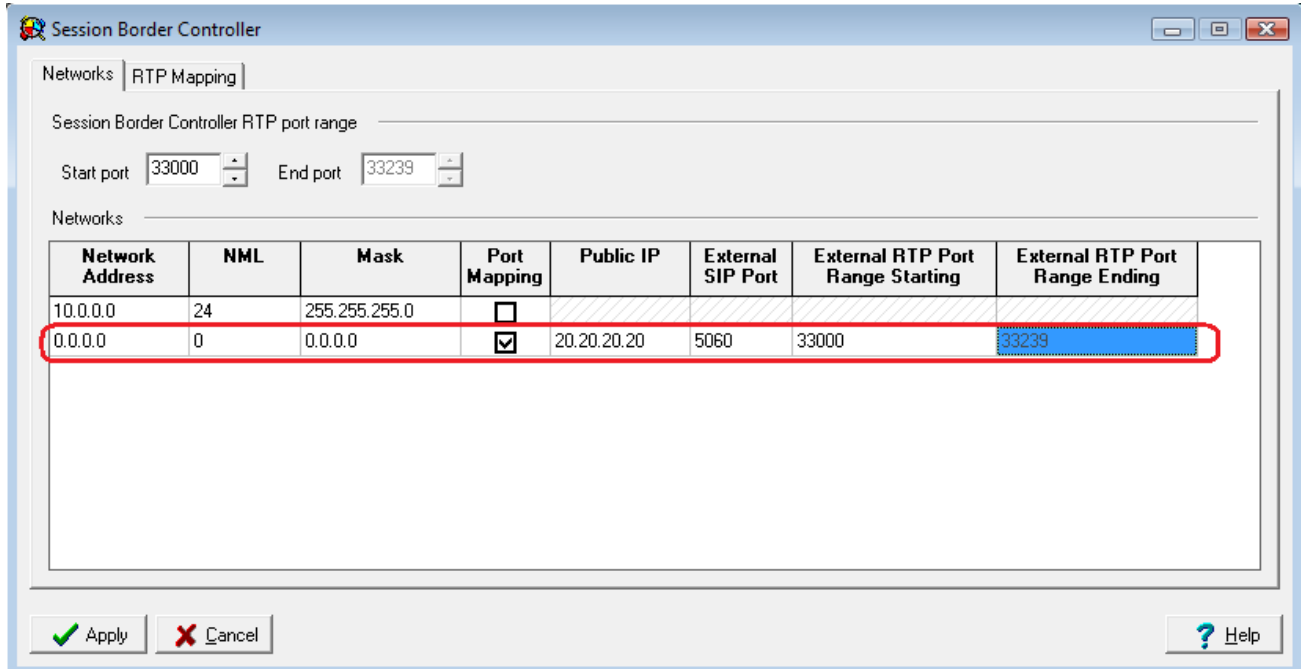
ALG was replaced / improved in MX version 5.0 by SBC. For full details on SBC please refer to the SBC document available from the KBS <http://kbs.zultys.com/issue.php?bid=wp-998&fdwn=SBC.pdf> or from Technical Support named *sbc.pdf* document number 0000000150.

For the example below:

- Network 10.0.0.0/24 is the private side (LAN) of the MX, this is where all the local phones are connected to the MX.
- Network 0.0.0.0/0 is mapping all other network to the public side of the MX, thus performing the SBC functions to correct all RTP packets by inserting the public IP listed in the *Public IP* field, and the External SIP port with the port listed in the *External SIP Port* field.
- *Session Border Controller RTP port range* are the ports that the session border controller will send and receive voice packets.
- *External RTP Port Range* is the port range that is forwarded by the edge firewall to the MX, this port range is independent of the *Session Border Controller RTP port range*. (In the example below there were made to be the same.)

1.4.1 Networks

To configure SBC in the 0.0.0.0 route enable port mapping, and assign the Public IP and ports in the fields circled below. If you are not using SBC and have the MX in routing mode with public IPs assigned to interface 2/WAN do not check the Port Mapping.



Session Border Controller

Networks | RTP Mapping

Session Border Controller RTP port range

Start port 33000 End port 33239

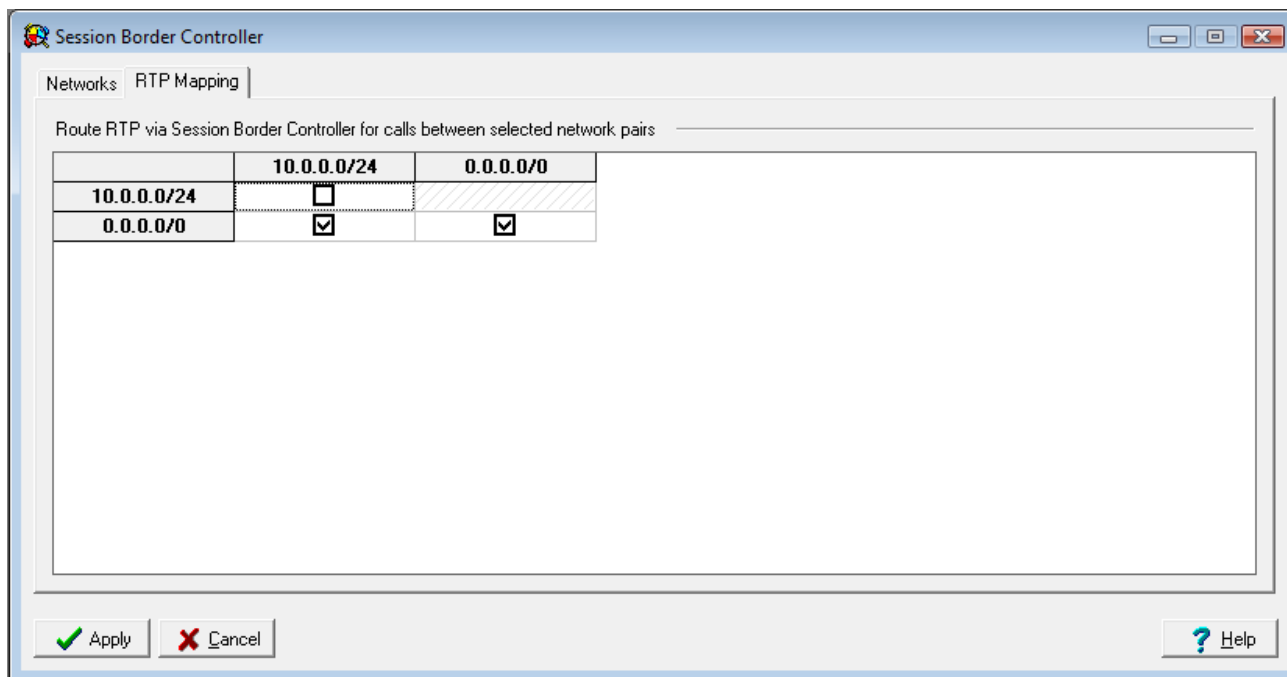
Networks

Network Address	NML	Mask	Port Mapping	Public IP	External SIP Port	External RTP Port Range Starting	External RTP Port Range Ending
10.0.0.0	24	255.255.255.0	<input type="checkbox"/>				
0.0.0.0	0	0.0.0.0	<input checked="" type="checkbox"/>	20.20.20.20	5060	33000	33239

Apply Cancel Help

1.4.2 RTP Mapping

Place check each network you wish the MX to perform ALG/SBC modifications for.



1.5 Package Types

There are 2 packages you can purchase from XO, Package 1 and Package 2.

1.5.1 Package 1:

- Voice codec: G.711 only.
- DTMF: RFC2833 (In band RTP DTMF as fallback)
- Fax: T.38 (G.711 pass through fallback)

If using this package, the MX Codec profile must be set to "Voice quality" on the ITSP tab.

1.5.2 Package 2:

- Voice codec: G.729a, G.711 as fallback.
- DTMF: RFC2833
- Fax: T.38 (G.711 pass through fallback)

If using this package the MX Codec Profile must be set to "Low bandwidth" on the ITSP tab.

1.6 Known Issues

The following issues are known.

- Call forwarding to PSTN from PSTN fails if "Preserve original caller ID" is enable on Zultys IPPBx.
 - **Workaround:** "Preserve original caller ID" feature should be disabled, it is not supported by XO.
- Call transfer blind call ended up with audio issue.
 - **Workaround:** None. Not supported by XO
- Outbound caller ID block doesn't work.
 - **Workaround:** None. Not supported by Zultys
- MXIE Fax server only supports faxing with G.711. T.38 is not supported.