Guidelines for Configuring Ethernet Port Mirroring to Provide Target Mirrored Packets for Reply VoIP Monitoring Services

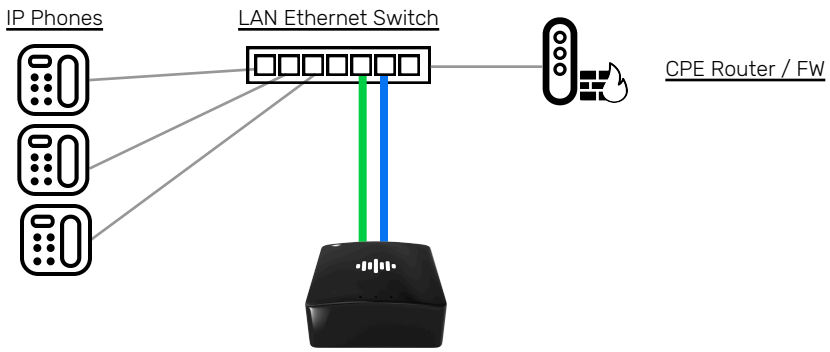
Connectivity Requirements for the Reply Sidekick for Mirroring

- The Reply Sidekick will require 2 open ports: 1 for the WAN connection and 1 for the Mirror connection.
- If the Ethernet topology for the VoIP or native VLAN supporting the IP Phones has more then 1 Ethernet switch, the Reply Sidekick ***must be connected to the Ethernet switch also connected to the Router/ Gateway.***

Things you will need or need to know regarding the Ethernet switch topology

- The Ethernet switch and port number the Reply Mirror Port is connected to.
- How many Ethernet switches are in use and interconnected in the VoIP or native VLAN supporting the IP Phones?

If only 1 Ethernet Switch



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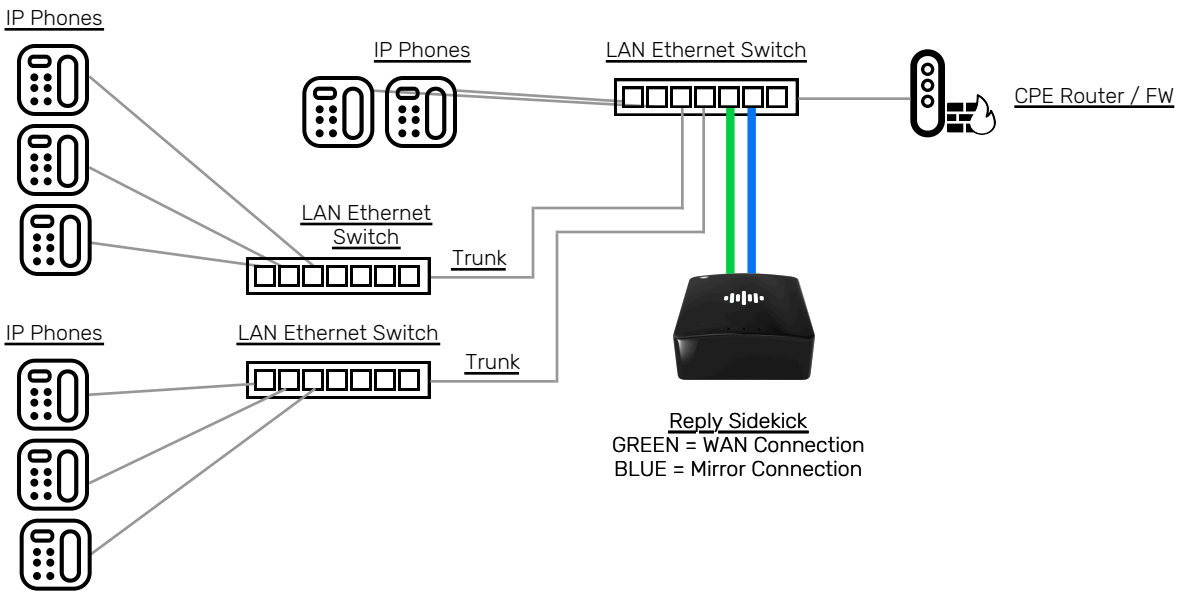
If more than 1 Ethernet Switch

DETERMINE:

- What are the trunk ports between the Ethernet switches for the VoIP or native VLAN supporting the IP Phones?
- Which Ethernet switch has the connection to the Router/Gateway to the Internet?

ACTIONS:

- On all Ethernet switches ***without*** the Router/Gateway connect to it, no mirror action is necessary.
- On the Ethernet switch ***with*** the Router/Gateway connected to it, configure the switch to mirror all Received (RX) packets on all ports (or including all ports with IP Phones, all Trunk ports from other switches, all the port to the Router/Gateway) to the Reply Mirror Port



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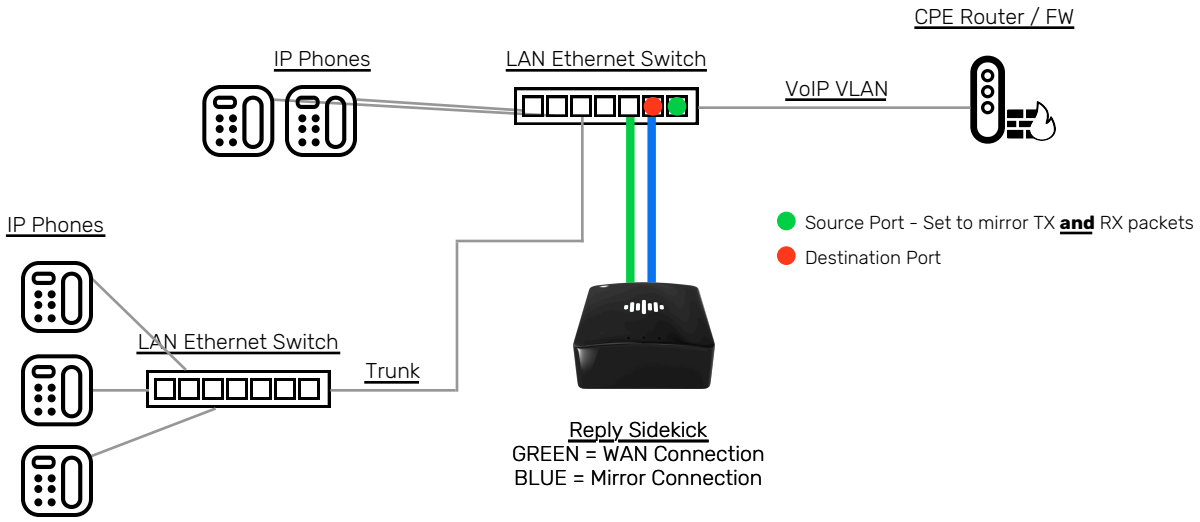
Configuring Port Mirroring on an Ethernet Switch

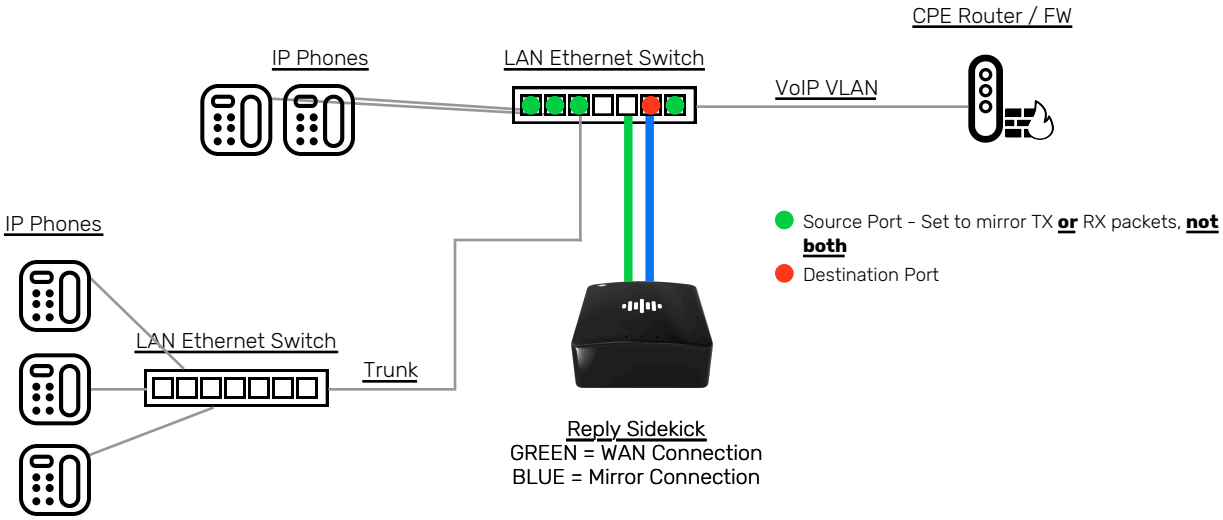
Recommended Port Mirroring Technique

Mirror all the TX and RX traffic of the uplink port of the Ethernet switch heading to the firewall or router to the port connecting the Reply Sidekick port labeled Mirror.



Alternative Port Mirroring Technique

Mirror the TX or RX traffic (but not both) of all VoIP VLAN ports, trunk ports carrying the VoIP VLAN, and the uplink port of the Ethernet switch heading to the firewall or router to the port connecting the Reply Sidekick port labeled Mirror.



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