

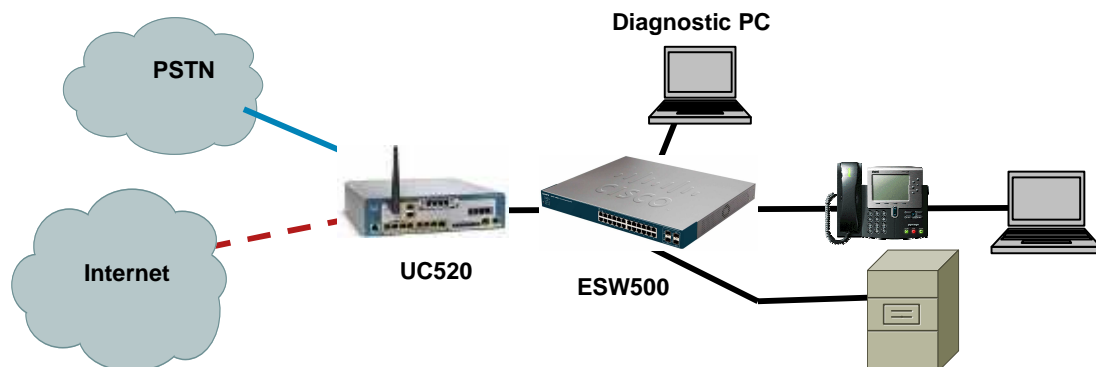
Configure Port Mirroring (Port Span) on ESW 500 switch

Overview

Port Mirroring or SPAN monitors and mirrors network traffic by forwarding copies of all incoming and outgoing packets from one port on a switch to a monitoring port. Port mirroring is typically used as diagnostic tool to capture packets on a specific port for problems such as (but not limited to):

- IP Phone voice quality issues
- Certain types of traffic such as HTTP not reaching a data server
- Call monitoring or recording solutions

You configure port mirroring by selecting a “target or destination” port to copy all packets, and different “source” ports from which the packets are copied. The network diagram below shows a “diagnostic PC” running a packet capture tool such as [Wireshark](#) - the port the PC is on is set as the destination port on the Port Mirroring section.

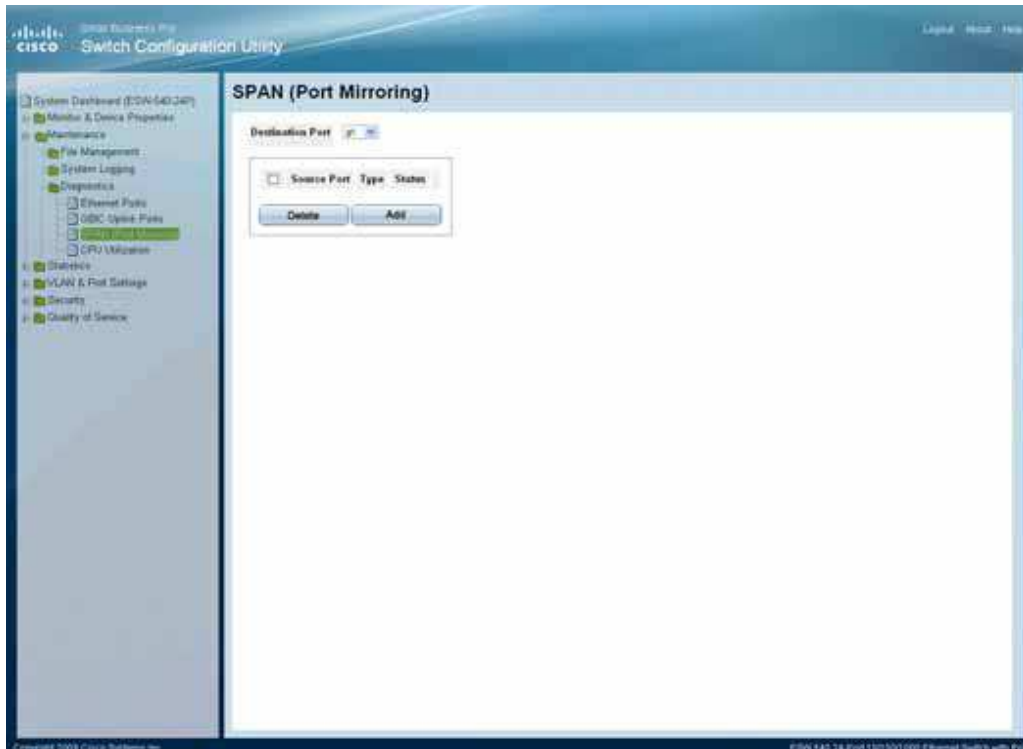


ESW 500 Port Mirroring pre requisites:

- Need a PC with the appropriate software such as a packet capture tool (i.e. Wireshark) to be on the port designated as diagnostic port
- The target port cannot be a member of an LAG
- The target port cannot be the source of a port mirror session & vice versa
- All QoS rules that apply to the target port as an egress (traffic shaping etc) are suspended for the duration of the mirroring session.
- When a port is set to be a target port for a port-mirroring session, all normal operations on it are suspended.
- Maximum of 8 ports can be specific as source ports for each monitoring session

Configuring Port Mirroring

1. Logon on to the ESW 500 Switch configuration utility & Click Maintenance > Diagnostics > SPAN (Port Mirroring). The SPAN (Port Mirroring) Page opens:



The SPAN (Port Mirroring) page contains the following fields:

- Destination Port — defines the port to which the source port's traffic is mirrored.
NOTE The destination port must be configured with a Smart Port role of "Other" using the Smart Port Wizard before configuring for port mirroring.
- Source Port — defines the port from which traffic is to be analyzed.
- Type — indicates the port mode configuration for port mirroring. The possible field values are:
 - Rx Only — defines the port mirroring for receive traffic only on the selected port.
 - Tx Only — defines the port mirroring on transmitting ports. This is the default value.
 - Tx and Rx— Defines the port mirroring on both receiving and transmitting ports.
- Status — indicates if the port is currently monitored. The possible field values are:
 - Active — indicates the port is currently monitored.
 - NotReady — indicates the port is not currently monitored.

2. Click the Add button. The Add Port Mirroring page opens:

Add Port Mirroring

Source Port

Type

The Add Port Mirroring page contains the following fields:

- Source Port — defines the port from which traffic is to be analyzed.
- Type — indicates the port mode configuration for port mirroring. The possible field values are:
 - Rx Only — defines the port mirroring on receiving ports. This is the default value.
 - Tx Only — defines the port mirroring on transmitting ports.
 - Tx and Rx — Defines the port mirroring on both receiving and transmitting ports.

3. Define the relevant fields & click Apply. Port mirroring is enabled and the diagnostic PC will now show packets being captured that are being sent / received on the source port(s).

To delete an entry, click on the selected entry in the table and then press Delete.