

CIS Additional Network Setup

CIS Additional Network Setup

Add a completely separate network. Good for guest wireless, home offices or that rental suite. We build you a completely separate bridge and network, the equivalent of another router, all from one device.



CIS Network Additions are complete configurations that can be added to any CIS Router. This additional network will have a gateway, DHCP server, IP pool, DNS server and more. CIS Services will provide all of the new network details upon completion. These details will include: **Gateway, Network Address, and Subnet-Mask.**

Network Addition will be presented in the following format:

10.100.80.0/24

Gateway 10.100.80.1

CIS VLAN Interface

CIS VLAN Interface

VLANs can be used to partition a local network into several distinctive segments.

- Production
- Voice over IP
- Network management

Requires additional networks (Sold Separately)



This additional network can be assigned to any combination of ports on any number of CIS Switches by using VLAN assignments.

CIS VLANs (Virtual Local Area Network) are required for each CIS Network Addition. CIS Services will provision CIS Routers and CIS Network Switches with a dedicated VLAN that will be assigned to a specific network.

The VLAN will be presented in the following format:

PVID (Port VLAN ID):

PVID: 80

Trunk Port: SFP_01

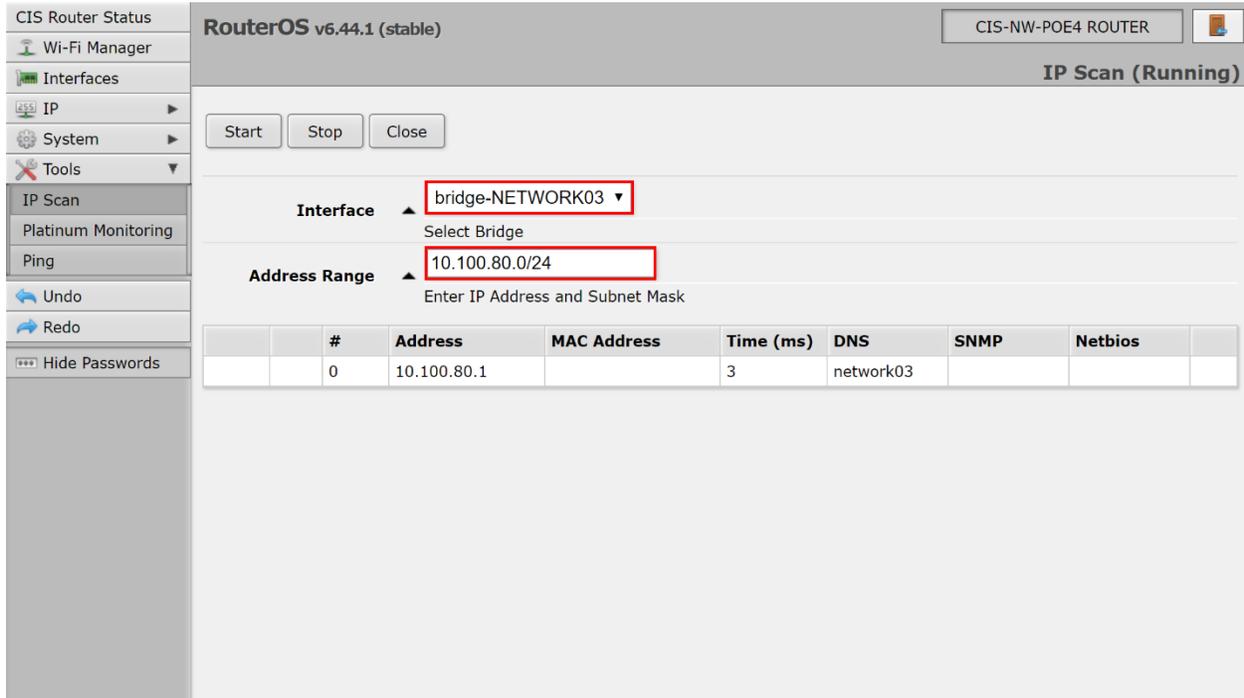
In commercial applications all CIS Components will be isolated for security. Additional networks will be accessible from the administrative CIS Primary Network.

VLAN Trunk Ports will be identified in all CIS Network equipment and **MUST** be used to carry any VLANs.

Setting VLANs in CIS Routers and Switches

It is important to identify the correct network, scan the network prior to adding any new devices.

Log in your CIS Router and generate an IP Scan on the desired new network. This will identify used and available IP addresses

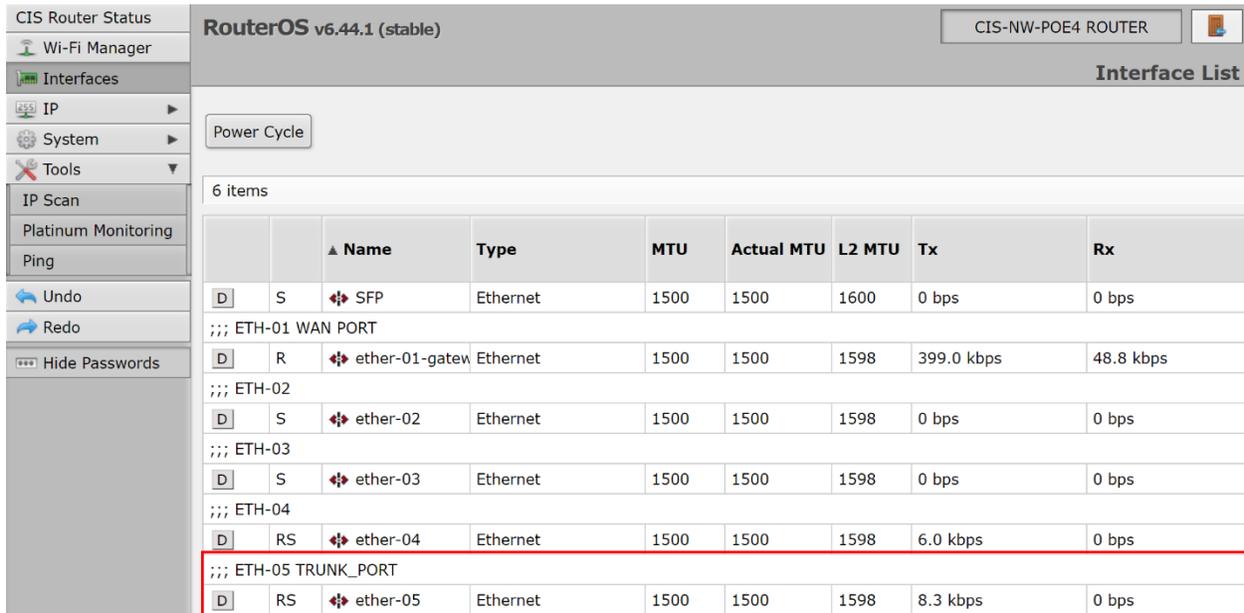


The screenshot shows the RouterOS v6.44.1 (stable) interface for an IP Scan. The interface is set to 'bridge-NETWORK03' and the address range is '10.100.80.0/24'. The scan is currently running. Below the configuration, a table displays the scan results:

#	Address	MAC Address	Time (ms)	DNS	SNMP	Netbios
0	10.100.80.1		3	network03		

In this case 10.100.80.1 is the gateway as expected and all other address from 10.100.80.2-10.100.80.1.254 are available.

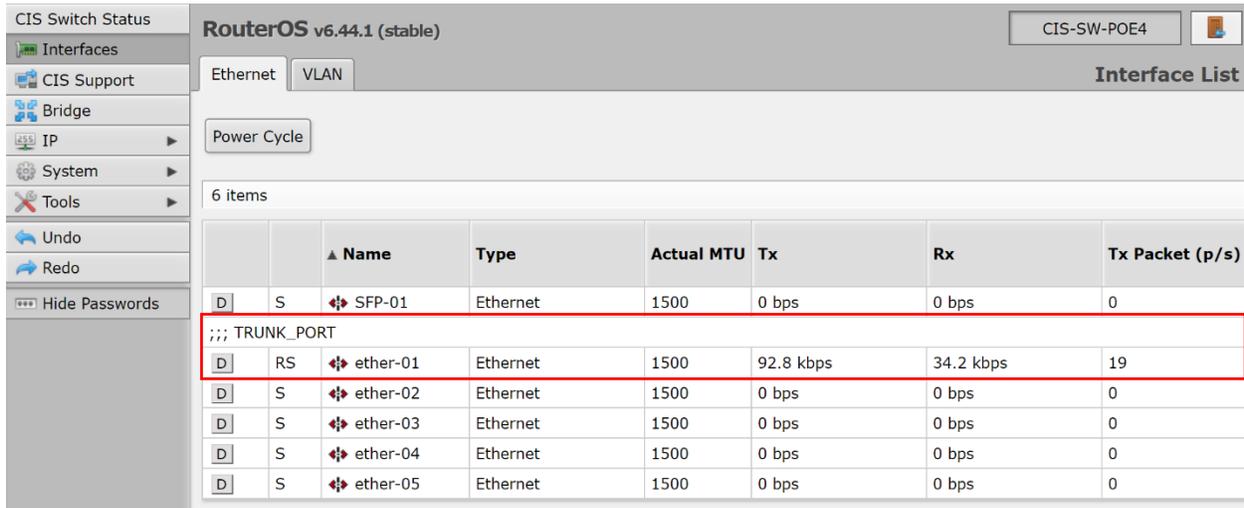
Identify and confirm the VLAN Trunk on the CIS Router.



The screenshot shows the RouterOS v6.44.1 (stable) interface for the Interface List. The list shows 6 items, including the 'ETH-05 TRUNK_PORT' which is highlighted with a red box. The table below shows the details of the interfaces:

Name	Type	MTU	Actual MTU	L2 MTU	Tx	Rx
SFP	Ethernet	1500	1500	1600	0 bps	0 bps
;;; ETH-01 WAN PORT						
ether-01-gatew	Ethernet	1500	1500	1598	399.0 kbps	48.8 kbps
;;; ETH-02						
ether-02	Ethernet	1500	1500	1598	0 bps	0 bps
;;; ETH-03						
ether-03	Ethernet	1500	1500	1598	0 bps	0 bps
;;; ETH-04						
ether-04	Ethernet	1500	1500	1598	6.0 kbps	0 bps
;;; ETH-05 TRUNK_PORT						
ether-05	Ethernet	1500	1500	1598	8.3 kbps	0 bps

Login to your CIS Network Switch and Identify the VLAN Trunk



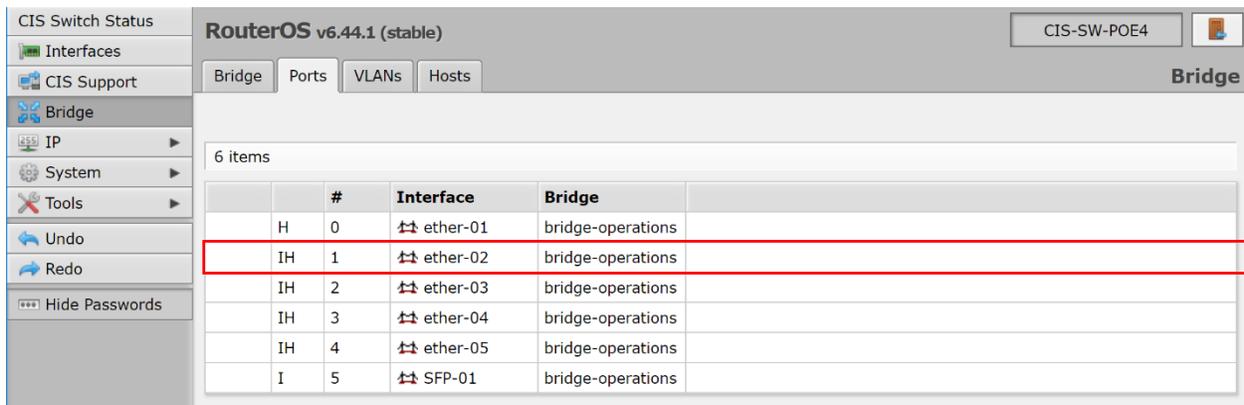
RouterOS v6.44.1 (stable) CIS-SW-POE4

Interface List

6 items

		Name	Type	Actual MTU	Tx	Rx	Tx Packet (p/s)
D	S	SFP-01	Ethernet	1500	0 bps	0 bps	0
;;; TRUNK_PORT							
D	RS	ether-01	Ethernet	1500	92.8 kbps	34.2 kbps	19
D	S	ether-02	Ethernet	1500	0 bps	0 bps	0
D	S	ether-03	Ethernet	1500	0 bps	0 bps	0
D	S	ether-04	Ethernet	1500	0 bps	0 bps	0
D	S	ether-05	Ethernet	1500	0 bps	0 bps	0

Access the bridge port and select the port for the new network



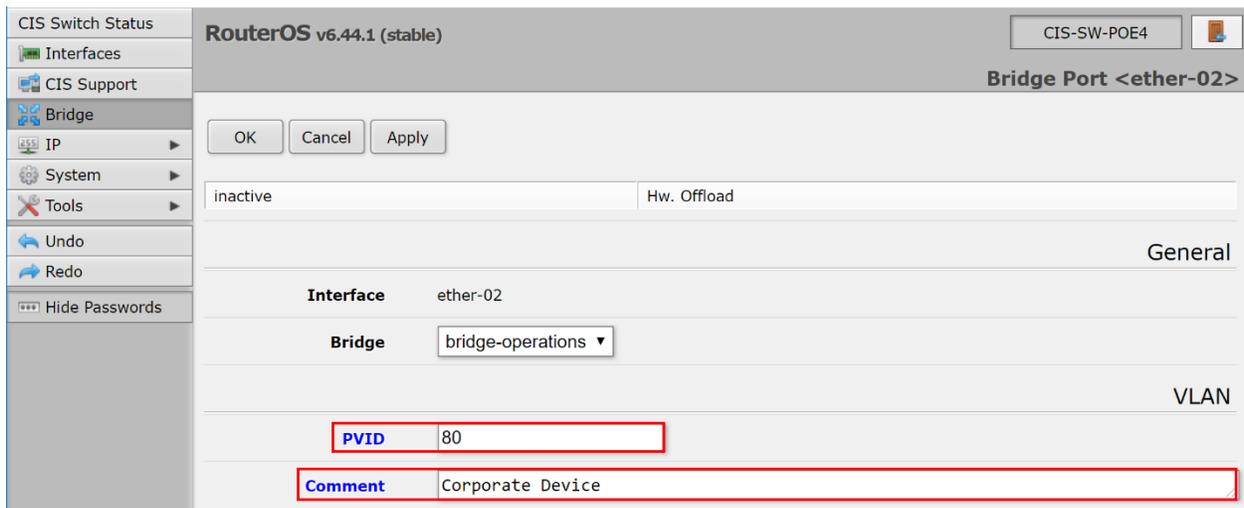
RouterOS v6.44.1 (stable) CIS-SW-POE4

Bridge

6 items

	#	Interface	Bridge
H	0	ether-01	bridge-operations
IH	1	ether-02	bridge-operations
IH	2	ether-03	bridge-operations
IH	3	ether-04	bridge-operations
IH	4	ether-05	bridge-operations
I	5	SFP-01	bridge-operations

Access the bridge port and assign the desired PVID



RouterOS v6.44.1 (stable) CIS-SW-POE4

Bridge Port <ether-02>

OK Cancel Apply

inactive Hw. Offload

General

Interface ether-02

Bridge bridge-operations

VLAN

PVID 80

Comment Corporate Device

Connect a laptop to confirm functionality and the correct IP scheme.