

INGERGRATING MVRP BETWEEN ARUBA 3810 AND CISCO CATALYST

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OVERVIEW

This document will cover how to configure MVRP on both a Cisco Catalyst 9300 and an Aruba 3810M, It will also show the verification of MVRP working between the two switches.

MVRP allows switches to be able to register and de-register such as across switches trunked together. MVRP is very efficient in terms of exchanges, there are no explicit acknowledgements, only exchanges of state information, meaning the protocol that corrects very quickly for the loss of a single protocol data unit (PDU). Corrects on a slower timescale for any possible connectivity changes (e.g., reroute, protection, or additional ports) or multiple PDU losses. The PDUs are peer-switch-to-switch-bridge, and each PDU carries information about all services shared by those bridges.

Aruba 3810 Configuration

Pointing the switch to ISE Server

```
mvrp enable

interface 13
mvrp enable
# MVRP must be enabled under the interface for MVRP Messages to propagate
```

Cisco 3850 Configuration

```
mvrp global
mvrp vlan create

Interface gigabit Ethernet 1/0/47
switchport mode trunk
#interfaces must be in trunked mode in order for MVRP to propagate
% VLANs can't be created via MVRP because VTP is not in transparent/off modes.
```

VERIFICATION

Verification Cisco

```
show mvrp summary
MVRP global state      : enabled
MVRP VLAN creation     : enabled
VLANs created via MVRP : 100-104,280,1001,1341,1522
MAC learning auto provision : disabled
Learning disabled on VLANs : none
```

```

show mvrp interfacePort          Status      Registrar State
Gi1/0/47      on              normal

Port          Join Timeout      Leave Timeout      Leaveall Timeout      Periodic
Gi1/0/47      20                60                1000                  Timeout
                                           100

Port          Vlans Declared
Gi1/0/47      1-3

Port          Vlans Registered
Gi1/0/47      1,100-104,280,1001,1341,1522

Port          Vlans Registered and in Spanni

```

Verification Aruba

show Vlans

VLAN ID	Name	Status	Voice	Jumbo
1	DEFAULT_VLAN	Port-based	No	No
2	MVRP_2	Dynamic		No
3	MVRP_3	Dynamic		No
100	VLAN100	Port-based	No	No
101	VLAN101	Port-based	No	No
102	VLAN102	Port-based	No	No
103	VLAN103	Port-based	No	No
104	VLAN104	Port-based	No	No
280	VLAN280	Port-based	No	Yes
1001	VLAN1001	Port-based	No	No
1341	VLAN1341	Port-based	No	No
1522	VLAN1522	Port-based	No	No

show mvrp statistics

Status and Counters - MVRP

MVRP statistics for port : 13

Failed registration : 0
Last PDU origin : cc5a53-d9bd2f
Total PDU Transmitted : 216349
Total PDU Received : 285574
Frames Discarded : 0

Message type	Transmitted	Received
-----	-----	-----
New	0	0
Empty	133363562	3189785
In	372602	2594376
Join Empty	1733562	522478
Join In	426806	261239
Leave	0	0
Leaveall	353	24125