

Release Notes: ISW Series 8-Port Industrial Switches

Firmware Version 1.01.04.0001 (for all models)

Models:

ISW 4-10/100P, 2-10/100T, 2-SFP, PoE Switch (FE) ISW 4GbP, 2GbT, 2-SFP, PoE Switch (GE)

Documentation Date: 2022/02/28

Note:

Image ISW-TLN-12PORT_V01.01.04.0001 is not compatible with 8-port ISW-Series platforms.

[New Release: v01.01.04.0001]

These Release Notes include all feature changes and fixed bugs through release v01.01.03.0015.

<Software Date>

Software Build Date: 2022/02/24

<Software Base>

MSCC VSC7429, VSC7425 Compatible OS: eCos Operating System Version 3.65 CE Service

<New Features>

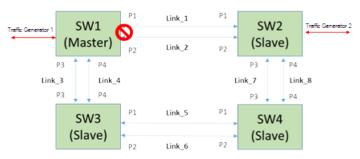
- 1. Support Dual Ring (Ring/Chain with LAG)
 - → This feature is supported in all Ring, Chain, Coupling, Dual-homing, and Balancing Chain technologies.
 - Restrictions of Dual Ring:
 - Each LAG Ring node supports only 2 ports of LAG
 - Ring topologies that have STP mixed with LAG Ring nodes are not supported
 - Only Static LAG is supported



Supported topologies:

Average recovery time is same as original Ring technologies (similar to rings without LAG). The recovery time is sub-50 ms.

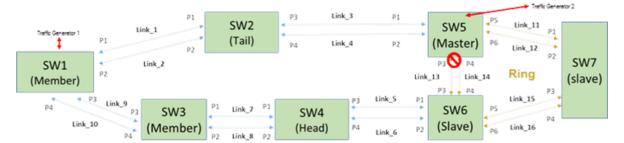
- Ring with LAG



Balancing Chain with LAG



Chain with LAG





Web (allows LAGs to be configured as Ring ports)

RingV2 Configuration



CLI commands:

Support LAG port can be configured for Ring node1 & node2.

(config-ringv2-group1)#
(config-ringv2-group1)#node1 aggregation group <LAG group ID>
(config-ringv2-group1)#node2 aggregation group <LAG group ID>

- 2. Support "Enable both MAC and 802.1X auth on same port"
 - → 802.1X/MAC Auth auto sense mode.
 - Mode States:
 - Try to authenticate through 802.1X else
 - Try to authenticate through MAC else
 - Provide Guest VLAN access (if Guest VLAN is enabled) else
 - No Access

State chart of 802.1X/MAC auto sense mode



Note: If enabling 802.1X on the end-station, a port bounce on the ISW will be required to perform 802.1X authentication.



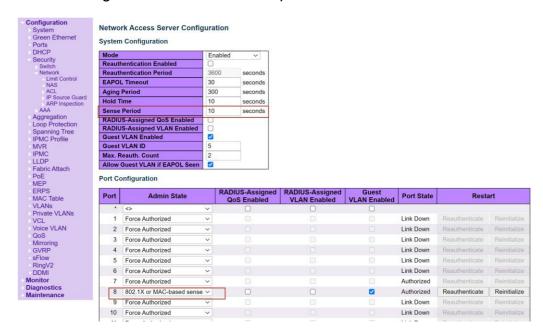
- New timer parameter: Sense Period
 Used to identify if the client enabled 802.1X. Identification method is to learning if the port received EAP/EAPOL packets, the first learnt packet will be EAPOL start normally after port is linked up.
 - CLI commands:

(config)#dot1x timeout sense-period <10-255>, default: 10 seconds

- New mode of port control: dot1x port-control sense
 To support, enable both MAC and 802.1X auth on same port.
 - CLI commands:

(config-if)# dot1x port-control sense

Web design for Sense Period and port-control mode





<Feature updates>

- Support TLS1.2 for HTTPs connection.
- Enable HTTPs and HTTPs redirect by default. (By default, all HTTP sessions will be redirected to HTTPs)
- 3. ISW SNMP performance improvement (OID:1.3.6.1.2.1.31 and for 1.3.6.1.2.1.2.2) Modify the SNMP response for 1.3.6.1.2.1.31 and for 1.3.6.1.2.1.2.2 to report only existing VLANs = do not report non-existing VLANs (Previous version will response 1~4095 VLANs if one of the ports is enabled in Trunk mode.)

<Fixed Bugs>

1. TSS5406: Switch reboots when I enable dot1x authentication



Release History

For details about the contents of previous firmware releases, refer to Release Notes for ISW Series 12-Port Industrial Switches (version 1.01.03.0015).

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