FL SWITCH updates

FL SWITCH User Manual 3050_en_N addendum

Technical note
3919_en_A

1 Introduction

Additional capability has been added to FL SWITCH 30…, FL SWITCH 40..., and FL SWITCH 40…E… products that are not described in the “Managed industrial switch” user manual (3050_en_N). These firmware updates are provided when firmware version xxx are installed in the switch.

2 6.9.2 General VLAN configuration

Applies to:

Description	Order No.	Version code
FL SWITCH 4004T-8POE-4SFP	1026922	00+

The use of VLANs can be activated/deactivated from the “Switch Station/VLAN/General Configuration” page.

“Tagging” is the only VLAN mode option. “Port Based” and “Transparent” modes are not available. The default VLAN on all other FL SWITCH 30… and FL SWITCH 40… products is “Transparent” mode, which forwards VLAN-tagged frames without any VLAN settings applied. With VLAN “Tagging “mode, VLANs must be created in the switch for VLAN-tagged traffic to be forwarded by the switch.

3 6.5.5 PoE configuration

Applies to:

Description	Order No.	Version code
FL SWITCH 4004T-8POE-4SFP	1026922	00+

The PoE settings are configured from the “Switch Station/ Ports/PoE Configuration” page.

The “PoE Port Setting” page provides a “Force Power” field. When the “Force Power” box is checked, power is forced on all four pairs of the Ethernet cable. The amount of power forced is defined in the “Fixed Power Limit” field.

This feature allows the switch to force power to any power device (PD) that is not fully compatible with IEEE PoE specifications.

60 W capability has been included in the FL SWITCH 4004T-8POE-4SFP in anticipation of the IEEE 802.3bt standard. Since the standard has not been released yet, not all products on the market have implemented this capability the same way, so testing of 60 W operation before purchasing devices is highly recommended.

4 6.4.6 MAC-based security per port

Applies to:

Description	Order No.	Version code
FL SWITCH 4008T-2SFP	2891062	6+

The FL SWITCH 4008T-2SFP can allow or block communication with industrial devices by looking at hardware MAC addresses. The “MAC Based Security: Per Port” page defines which ports a the device is allowed to communicate with based on the MAC address.

This feature was only available on 10/100 Mbps ports, but is now extended to 1000 Mbps ports.

5 6.2.2 Individual port configuration

Applies to:

Description	Order No.	Version code
FL SWITCH 3004T-FX	2891033	7+
FL SWITCH 3004T-FX ST	2891034	7+
FL SWITCH 3005	2891030	6+
FL SWITCH 3005T	2891032	7+
FL SWITCH 3006T-2FX SM	2891060	6+
FL SWITCH 3006T-2FX	2891036	7+
FL SWITCH 3006T-2FX ST	2891037	7+
FL SWITCH 3008	2891031	6+
FL SWITCH 3008T	2891035	7+
FL SWITCH 3016	2891058	5+
FL SWITCH 3016T	2891059	6+
FL SWITCH 4008T-2SFP	2891062	6+

VLAN QoS replaces port-based QoS

The “Port Configuration” page displays the current settings of an individual port. The Quality of Service (QoS) priority level has been removed from this page and is now configurable on the “Native VLAN Port Configuration” page.

6 6.6 Redundancy

Applies to:

Description	Order No.	Version code
FL SWITCH 3004T-FX	2891033	7+
FL SWITCH 3004T-FX ST	2891034	7+
FL SWITCH 3005	2891030	6+
FL SWITCH 3005T	2891032	7+
FL SWITCH 3006T-2FX SM	2891060	6+
FL SWITCH 3006T-2FX	2891036	7+
FL SWITCH 3006T-2FX ST	2891037	7+
FL SWITCH 3008	2891031	6+
FL SWITCH 3008T	2891035	7+
FL SWITCH 3016	2891058	5+
FL SWITCH 3016T	2891059	6+
FL SWITCH 4008T-2SFP	2891062	6+

IEEE-based redundancy protocols Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree (MST), and the proprietary Extended Ring protocol can be selected as redundancy mechanisms.

Extended Ring may only be applied to VLAN1. By default all ports are a member of VLAN1 unless configured otherwise.

Extended Ring and MST can no longer be simultaneously enabled on the same switch port. However, they may exist on separate ports of the same switch.