

## Firmware release notes of switch series IE-SW-PL18M

### Affected models:

Device name	Article No.
IE-SW-PL18M-2GC-16TX	1241320000
IE-SW-PL18MT-2GC-16TX	1286970000
IE-SW-PL18M-2GC14TX2SC	1241330000
IE-SW-PL18MT-2GC14TX2SC	1286990000
IE-SW-PL18M-2GC14TX2ST	1241340000
IE-SW-PL18MT-2GC14TX2ST	1287000000
IE-SW-PL18M-2GC14TX2SCS	1241350000
IE-SW-PL18MT-2GC14TX2SCS	1287010000

### General upgrade Information:

Upgrading from older versions to latest firmware Version 3.4.4 generally can be done without any impacts regarding the currently set switch configuration.

### Version 3.4.4

**Released: September 2016**

#### Improvements:

- Pass the ODVA certification of industrial protocol "Ethernet/IP"
- Pass the PI certification of industrial protocol "Profinet RT"
  
- Add some minor SNMP OIDs
- Enhancement of multicast performance
- Optimized Turbo Ring redundancy performance
- Elimination of some vulnerability issues
  - Web user interface: Ping function in diagnostic menu vulnerable to XSS attack
  - Switch may reboot when using special URL to attack the web user interface
  - User account privileges could be changed by web developer plug-in of Firefox browser

#### Bug Fixes:

- Improvement of stability of Profinet IO communication
- Configuration import failed if system name was too long
- Wrong counter information of switch packets when displayed in Web interface or when read via SNMP
- Wrong message "Login Authentication failed" has been stored in the log file though login procedure was successful
- Port settings of Gigabit Combo ports are reset to default values after system reboot

### Version 3.4.2

**Released: February 2016**

#### New features:

- Support of RSTP-2004
- Support of Hybrid VLAN
- RADIUS and TACACS+ for user login authentication
- RADIUS for 802.1x port authentication
- Configuration of limitation of Egress rates
- Filtering of packets with unknown unicast addresses
- CPU loading monitoring
- Change IP without reboot
- DHCP Discover retry configuration
- GARP timer adjustment
- Loop-protection
- Link Fault Shutdown (Disable mode in "Rate Limit" function)
- Implementation of SNMP-Trap (private) for loop protection
- Implementation of functionality to read diagnostic values of DDM-SFP-transceivers via private MIB-file
- Additional support of 3rd party SFP transceivers
  
- Implementation of industrial protocol "EtherNet/IP"
- Implementation of industrial protocol "Profinet RT"

**Bug Fixes:**

- Web interface displayed errors under Java 8 environment when opening the monitoring menu (due to new Java security enhancements implemented in version 8).
- Displaying inaccurate values when reading DDM SFP transceiver diagnostic data
- Switch may reboot when using special DHCP discovery packet with multicast-type source MAC address.
- Potential of abnormal multicast transmission when enabling IGMP Snooping
- Radius based login authentication failed if the Radius server did not support privileged levels assignment
- Firmware upgrade failed when RADIUS authentication (IEEE 802.1x) was enabled
- Switch reboots when receiving IGMP v3 packets (commonly used in Windows 7)

**Version 2.6.4**

**Released: April 2011**

- First release