

## Korenix JetNet Industrial Managed Switch JetNet 4510 SOFTWARE RELEASE Notes

### Before Upgrade

Before you use the Switch firmware, please ensure that you know the product number and use the correct firmware version. By reading the file, you can know the new feature and changes, the fixed bugs and the restrictions. You can find the latest firmware in the Korenix web site, <http://www.korenix.com> or get the help from Korenix Customer Support, [Korecare@korenix.com](mailto:Korecare@korenix.com).

### About This Software Version

The version number and the release date.

Firmware Version	Boot Loader Version	Release Date	Model
V2.0	V1.6.2.10	Jan. 9, 2008	Official release for JetNet 4510
V2.1	V1.6.2.10	21, Apr, 2008	Official release for JetNet 4510

**CAUTION:** You can only update the correct firmware to the JetNet switches. Ensure the product model number before you start updating. If the version of Boot Loader is not match with JetNet4510 then upgrade firmware first then Boot Loader, ensure the power state is stable during the upgrade. You can upgrade firmware and boot loader through JetView commander.

#### **Important!**

Upgrade firmware shall follow the following sequence:

- First, upgrade new firmware by JetView v1.3 or above
- Second, upgrade new Boot loader by JetView v1.3 or above
- After Boot loader upgrade finished, it will auto restart system to enable the new functions.

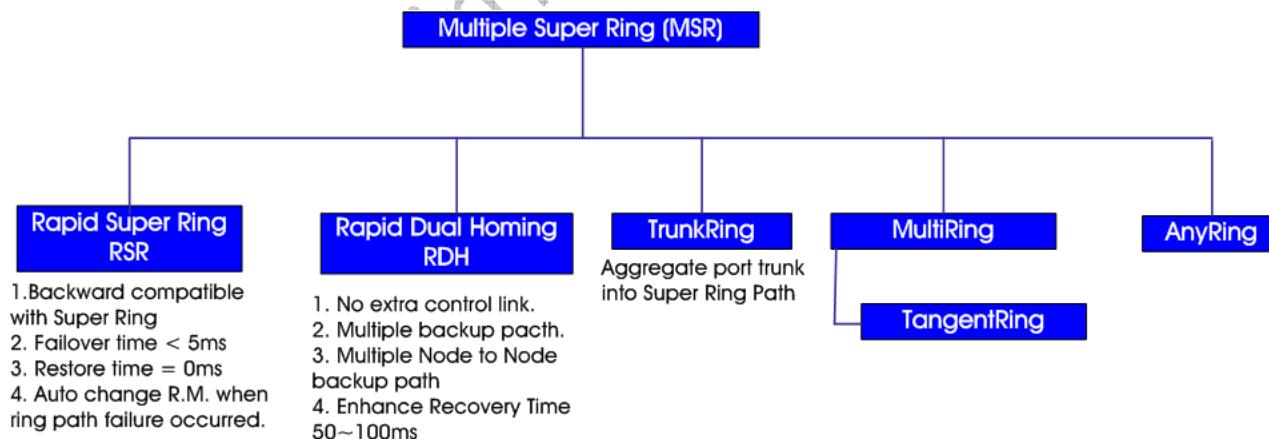
## New Changes and Improvement:

The following changes apply to the version v 2.1:

- Support more type of SFP fiber transceiver in JetView utility and Command Line Interface (CLI), the SFP fiber transceiver indicated as following table:

Korenix P/N	Description
<b>SFP100MM</b>	Multi-mode 100Mbps 2KM Fiber Transceiver
<b>SFP100MM-w</b>	Multi-mode 100Mbps 2KM Fiber Transceiver, Wide Opr. Temp.
<b>SFP100SM30</b>	Single mode 100Mbps 30KM Fiber Transceiver
<b>SFP100SM30-w</b>	Single mode 100Mbps 30Km Fiber Transceiver, Wide Opr. Temp.
<b>SFP100SM60</b>	Single mode 100Mbps 60Km Fiber Transceiver
<b>SFP100SM60-w</b>	Single mode 100Mbps 60Km Fiber Transceiver, Wide Opr. Temp.
<b>SFP100SM80</b>	Single mode 100Mbps 80Km Fiber Transceiver
<b>SFP100SM80-w</b>	Single mode 100Mbps 80Km Fiber Transceiver, Wide Opr. Temp.
<b>SFP100SM100</b>	Single mode 100Mbps 100KM Fiber Transceiver
<b>SFP100SM100-w</b>	Single mode 100Mbps 100KM Fiber Transceiver, Wide Opr. Temp.
<b>SFP100SM120</b>	Single mode 100Mbps 120KM Fiber Transceiver
<b>SFP100SM120-w</b>	Single mode 100Mbps 120KM Fiber Transceiver, Wide Opr. Temp.

- Rename Rapid Super Ring to Multiple Super Ring with various features as following diagram.



- Implement new ring algorithm, the restore time of Rapid Super Ring (R.S.R.) and Rapid Dual Homing (R.D.H.) reduced to zero second.

The following change apply to the firmware version V2.0 and Boot Loader V1.6.2.10

- All features are same as JetNet 5010G v2.0
- Support Multiple Super Ring (M.S.R.) as following features:

- a. Backward compatibility with Super Ring Version 1 supported in JetNet 4008, JetNet 4508 series.
  - b. Provides Rapid Super Ring (R.S.R.), Rapid Dual Homing (R.D.H.), TrunkRing and AnyRing.
- Support CLI, Web, JetView, SNMP v1/v2c/v3, RMON, DHCP client/server, IEEE 802.1x, IGMP Snooping v1/v2/v3, IGMP Query, IEEE 802.1Q VLAN, GVRP, IEEE 802.1D-2004 Rapid Spanning Tree Protocol (RSTP), IEEE 802.1p class of service, IEEE802.3ad LACP, event warning, and IEEE 802.1p class of service.

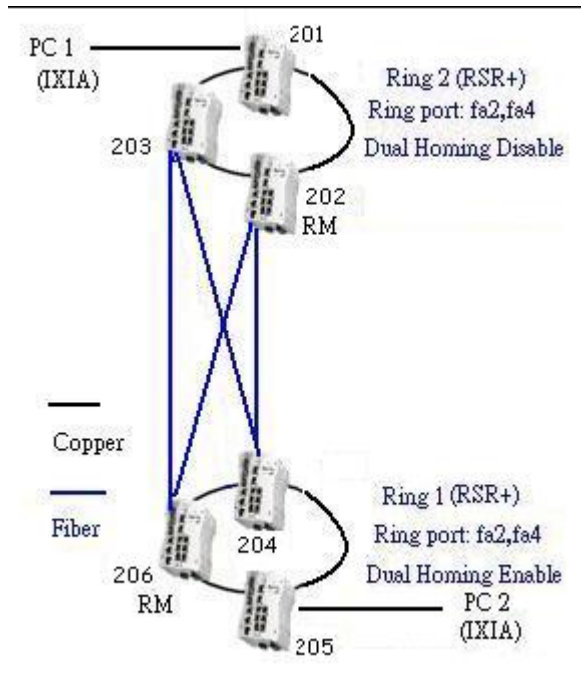
## Fixes for Known Faults

The following fixes apply to version v 2.1 and Boot Loader V1.6.2.10

- Fix IEEE 802.1x port status table update issue.
- Fix RSTP port status change issue when it link to a share hub.
- Fix dynamic VLAN table display issue in command line interface (CLI).
- Fix SFP transceiver update behavior. The correction is for SFP transceiver plug-in and link up/down state change.
- Fix SFP checking function for JetView V1.3.
- Fix the DHCP server IP address can't poll by SNMP issue.
- Fix DHCP client issue when one of Ring entity enabled DHCP server, all of DHCP client will get same IP address.
- Correct help information misspellings issues in Web interface.

## Known Restrictions or Limitation

- In version V2.1 firmware, if disable and delete the ring setting by Web interface, the SNMP MIB browser won't present exactly configuration.
- The combo port does not support fiber link-up first function when transceiver is 100Mbps multi-mode type.
- In Web interface, JetNet 4510 can configure GVRP function before Trunk port build and connected. But, it can't support in command line interface.
- The rate limiting or shaping function could not be applied on trunk port, since the speed of trunk port should be same.
- In dual homing architecture, only provide 7 uplink paths. If uplink path over 7 will cause video stream abnormal.
- In following network architecture, if plug out the any path either device 203 and 206 or device 202 and 204 will result the connection break down. This testing result only present in one-way ping command testing.



- As the upper ring architecture, when we do device power-down and the recovery time will exceed 1 sec and the traffic will be duplicated.
- If change IP address of IGMP querier, the JetNet 4510 won't change it immediately.
- It does not pop-up warning information when set rate limiting or shaping on trunk port. Since, the trunk port should be full wire speed and could not be limited.
- It won't pop-up warning information and restrict when configure dot1x function into Trunk group by SNMP interface.
- In RSTP inter-operability testing, if change Root Switch between Cisco 2950 switch and JetNet 4510 switch will cause JetNet 4510 non-edge port looping and changes to forwarding mode.
- The Recovery time of DUT power-off testing will take more than 1 sec.