

## Korenix JetNet Industrial Managed Switch 5010G 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
V2.1	V1.6.2.10	7-Aug,2009	JetNet 4010
V2.3	V1.6.2.12	24-Nov,2009	JetNet 4010
V2.3d	V1.6.2.12	Jun. 23, 2011	JetNet 4010

**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 JetNet 4010 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 version firmware by JetView utility
- Secondary, upgrade new version Boot loader by JetView if Switch boot loader is old version.
- 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 2.3d

- Remove Fiber Link First function and supports SFP transceiver plugged-in then switches to fiber link mode.
- Add LACP port short timeout function.
- Add DDM SFP function.

The following changes apply to the version v 2.3:

- Clone of JetNet4010-v2.2.10
- Add unknown multicast filtering function
- Add DHCP Option 82 function
- Add LLDP function
- Fix the firmware upgrade bug on some EN29LV649H flash (Commercial Grade)
- Add new feature of SFP
  - Support DDM SFP
  - Web UI and Warning event of SFP DDM
  - Three SFP check
    - ◆ Duplicated serial number check  
Check duplicated serial number and only one duplicated SFP can work
    - ◆ Checksum check  
SFP can't work if checksum is not correct
    - ◆ Certification check  
None-certified SFP/ DDM SFP only can tx and rx  
Certified Rule:  
None-DDM SFP  
Only check OUI (0x001277)  
DDM SFP  
Check  
1. OUI (0x001277)  
2. 16 bytes Code  
Formula :  
Basic field: Base address 1 = 3, Base address 2 = 20,  
Base address 3 = 40  
User Writeable EEPROM : Base address 4 = 128  
For(Offset = 0 to 15)  
{  
byte [Base address 1 + offset] +

```

byte [Base address 2 + offset] +
byte [Base address 3+ offset] == byte [Base address 4+ offset]
}

```

- Add DI warning event
- Armboot v 1.6.2.12 provides Menu UI and improve i2c access capability for DDM SFP
- Limits 2Mbps all frames to CPU, except PDU
- Change administrator password length from 8 to 32 characters. (Username length is the same. (20 characters))
- add relay function that the failure of Power 1 or 2 cause alarm in CLI mode
- Change \$PROMPT to 'switch#'

## Fixes for Known Faults

### The following issues fixed and applies to version 2.3d

- Fix CLI show interface with wrong duplex mode issue that configure port 1~7 from auto to other speed mode will cause CLI show wrong duplex mode information.(#1171)
- Fix dumping EEPROM data issue when uses JetView SFP check function. (#1306)
- Fix CLI display information issue when shutdown interface will display additional information.(#1338)
- Fix port speed configuration issue when configure combo port at 10/100Mbps and then shut down port, if the link partner is 5010G, 4510 or 4010 combo port then it will generate link down/up information. (#377)
- Fix Trunk Web UI with wrong display issue after apply the configuration and reload the UI (# 1274)
- Fix alarm relay output with wrong event type after perform Web UI refresh.(#1275),
- Fix communication issue when performs Trunk plus MSR function. (#1277)

### The following issues fixed and applies to version v 2.3

- In the Web interface, the RSTP always shows "Shared" if it link up to hub then link down. (# 1021).
- Fix SFP GSX display issue. (# 1022).
- The Ping will not reply when enable spanning-tree between two DUTs.(# 1024)
- Fix aggregation display in spanning tree table issue between two DUTs. (# 1025).
- Fix static aggregation group MAC table issue.(#1026)
- Fix Web Login-in request install CHT in English O.S. issue.(#1027)
- Fix global IGMP snooping with VLAN disable still shows enable issue.(# 1065).
- Fix VLAN configuration issue by commands "Accept Frame Type" to "Tag Only". ( #1066).
- Fix the RSTP issue with Cisco Switch that might cause loop and all ports forwarding when change the root cost.(# 1013).

- Fix VLAN display will lose entry issue. (# 13).
- Fix "switch# sh running-config" will lose one entry issue.(#64).
- Fix "switch# sh mac-address-table dy vlan 1" will lose one entry issue. (# 67).
- Fix "Switch#show ip igmp snooping multicast all" will lose one entry issue. (# 118).
- Fix "Switch(config)#? Will not auto carrier return and line feed issues. (#205).
- Fix "show running-config" issue. (# 235).
- Fix "Switich(config)#sfp ddm eject doesn't work issue. (# 1084).
- Fix SFP DDM display wrong value issue.(# 1085).
- Fix JetNet 5628G ring with JetNet 5010G issue.(# 1082).
- Fix SFP DDM function doesn't work issue. (# 1087).
- Fix SFP DDM warning-event display issue. (# 1088).
- Fix RSTP path cost issue.(# 933).
- Fix MSR protocol issue with JetNet 5628G. (# 1086).
- Letting Cisco switch become root and then non-root by changing its priority when connecting it more than three link to JN5628G(B) would cause loop continually. (During the time, every ports of Cisco with different path cost and port priority.) (bug# 1095).
- Fix IGMP member cannot join group issue when the there is wire speed traffic is injected into Switch.(# 1097).
- Fix Daylight saving issue. (# 1099)
- Fix RSR and VLAN interoperability issue. (# 1080)
- Fix Multicast stream forwarding issue.(# 1104)
- Fix multicast filtering issue in querier. (# 1106)
- Fix VLAN add and display VLAN mac information will cause system hanged issue. (# 1108)
- Fix forwarding queue issue. (# 1111).
- Fix IGMP querier with managed VLAN issue.(# 1109).
- Fix IGMP snooping with VLAN trunk port issue.(#1112).
- Fix IGMP stream can't forwarding when multicast filtering is enabled issue. (#1124)
- Fix port shut down will not clear MAC table issue ( port 1~7). (#1123).
- Fix "show mac-address-table dynamic" will causes system hold when switch is MSR enabled with multiple VLANs function. (#1128)
- Fix firmware upgrade will take long time issue.(#1138).
- Fix IGMP group leave can't at same time issue.(#1139).
- Fix last-member-query-interval time always shows 1000 centiseconds in VLAN 1 issue. (#1140)
- Fix snooping table won't clean issue when DUT executes immediate-leave in vlan 1000. (#1141).
- Fix RSR blocking port issue with JetNet 5628G (#1081).

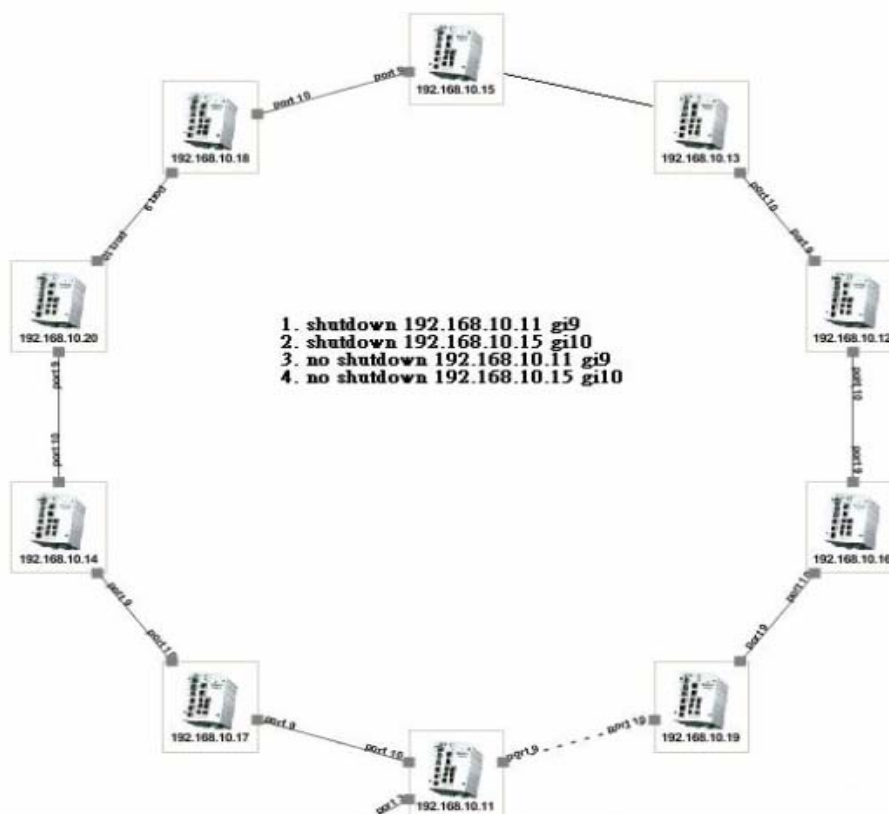
- Fix RDH link with unmanged Switch issue.(#1129).
- Fix DHCP client can't get IP issue. (#1145)..
- Fix Login fail issue. (#1148).
- Fix IP address configuration change from static to DHCP client and won't change to static IP only disable DHCP client.(#1157).
- Restore config which sets dhcp server will cause some parts of configure lost. ( It remains in startup-config but lost in running-config.) (#1162).
- Fix multicast traffic ( 20Mbps ) testing will cause system crash issue. (#179)

The following issues fixed and applies to version v 2.1

N/A

### Known Restrictions or Limitation – v2.3

- Super Ring v2 can't run with LLDP function. (#1142)
- As the ring topology as below, link down /up active ring path will cause the ring status show "Abnormal" when this architecture working with JetView Pro for 2 days, also one of DUT will not be discovery by JetView Pro utility (# 1143,1144)



- add "port id" information in lldp packet (bug# 1158)
- The IGMP join packet can't be learned by aggregate port and will cause load balance fail or looping.( #1159)
- The querier can't auto election when DUCT connect with Cisco Switch. (# 1110)
- The scroll bars of DI Number and DI state of fault relay show twice in Web interface. (#

1068)

- The Web interface always shows default gateway as 0.0.0.0 whether we set it by Web UI or not. Also, the second time setting wouldn't replace the first time setting. (# 1074).
- Remove Cisco PVST packet's tag and forward to Cisco will cause port blocking. (# 1083)
- Set the port with PVID 2 and belongs Management VLAN ID 2 that connected with Cisco switch will cause loop event occurred between DUT and Cisco Switch.(# 1089)
- The TX mirror destination port will receive tagged packet from source ports which are untagged port and whatever it is belongs to a VLAN member or not.(# 1090).
- If link up 2 ring port with different Ring ID, the status of two ring port still shows normal. It should be abnormal.(# 1093).
- NodeUp a static trunk ring will cause some device mac table learning failed and the transmission becomes abnormal. (# 1096).
- The re-authentication function is not working properly. (# 1098)
- In RDH architecture, if the uplink ports are aggregated as trunk group and one of port with different RDH port priority, then the other ports of the group won't be counted in RDH ports. And it will cause abnormal data transmission. (# 1103)
- The querier can't auto election when DUT connect with Cisco Switch. (# 1110)
- VLAN table did not display normally in WEB while lots of VLAN exist and edit the VLAN table. (# 1126)
- It will take duplicates when we do node up and the recovery time is more than 1 sec (# 981)
- It will lead to disconnect when PC2 ping PC1 if we node down any DUT in nondual-homing ring. (# 961)
- The GVRP configuration only supports in Web interface. (# 942)
- If link up Dual Homing port more than 7 ports, it will lead to DUT work abnormal. (eg. Viedo) (# 949).
- It will lead to disconnect when PC2 ping PC1 if we node down any DUT in nondual-homing ring (# 961).
- It will take duplicates when we do node up and the recovery time is more than 1 sec (# 981).
- If we change querier's IP, DUT will not change querier (# 1003).
- When link more than three links to cisco switch, changing root by modifying the priority, it might cause loop and all the link forwarding (# 1013).
- Recovery time of node down in topology B and D is over than 1 sec (# 1016), see attached diagram as following.

