

ZyXEL XGS3700-48HP V4.20(AAGF.0)C0

Release Note/Manual Supplement

Date: Jan. 22, 2015

This document describes the features in the **XGS3700-48HP** for its 4.20(**AAGF.0**)**C0** release.

Support Platforms:

ZyXEL XGS3700-48HP V4.20(AAGF.0)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.20(AAGF.0) | 01/21/2015 17:9:17

Bootbase Version : V2.00 | 07/21/2014 15:38:56

Default Bootbase Setting:

ZyNOS Version	V4.20(AAGF.0) 01/21/2015 17:9:17
Bootbase Version	V2.00 07/21/2014 15:38:56
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	00
RomFile Checksum	0ced
ZyNOS Checksum	5788
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (two will be occupied in stacking mode)
(Port 27/28 on XGS3700-24/24HP and Port 51/52 on XGS3700-48/48HP)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table

9. 1K IP address table
10. 64 routing path
11. 1K multicasting group
12. 2MB packet buffer.
13. IEEE 802.1D transparent bridging
14. Port-based VLAN (Standalone Only)
15. IEEE 802.1Q tag-based VLAN
16. Protocol-based VLAN
17. IP subnet based VLAN
18. GVRP
19. VRRP
20. IEEE802.1ad Double tagging
21. Selective QinQ
22. MAC filtering
23. Management through console, telnet, SNMP or web management
24. Firmware upgrade by FTP/TFTP
25. TFTP client / server
26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
29. 9K jumbo frame
30. Filtering/Mirroring by L2/L3/L4 rules
31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
36. IGMP filtering
37. MVR
38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
41. IGMP throttling
42. Static multicast
43. Administration user management
44. Multiple RADIUS server
45. Multiple TACACS+ servers
46. IEEE 802.1w RSTP
47. ZyXEL MRSTP
48. IEEE 802.1s MSTP
49. IEEE 802.3ah OAM
50. SNMPv3 support
51. 1K IP source guard
52. TRTCM
53. MAC authentication
54. Authentication & accounting by RADIUS / TACACS+
55. Loopguard
56. Daylight saving time support
57. IEEE 802.1ag CFM
58. IEEE 802.1AB LLDP
59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
65. Authorization on TACACS+
66. Layer 2 protocol tunneling
67. Support 802.3ah standard MIB
68. MLD snooping proxy

69. DHCPv6: client and relay
70. ICMPv6
71. IPv6 Path MTU
72. NDP: host and router
73. IPv6 address stateless auto-configuration: host and router
74. IPv6 static route
75. Guest VLAN
76. Password encryption
77. User access right
78. PPPoE IA and option 82
79. ECMP
80. 384 ACL
81. 64 Policy route
82. Configurable ARP learning mode
83. Recovery mechanism for error-disabled port/reason.
84. CPU protection
85. sFlow
86. Private VLAN
87. Authorization on console
88. ARP Freeze
89. Static ARP setting
90. MAC pinning
91. Interface related trap can be enable/disable by port
92. Multiple default route
93. 802.1AB LLDP-MED
94. DHCP option 82 profile
95. Remote port mirroring
96. ZyXEL new private MIB
97. Dual image
98. Dying gasp
99. DHCP Option82 per VLAN and per Port
100. Intrusion lock
101. DAC 10G
102. ES common MIB
103. ZyXEL One Network (ZON)
104. ZyXEL Neighbor Management
105. Web support : LLDP, LLDP-MED, Tech-support, Err-disable status, CPU utilization, Memory Utilization
106. ECMP MAX Config
107. IP port move for VM
108. ACL 2.0
109. Voice VLAN
110. Load factory default
111. MAC based VLAN

Enhanced Features:

1. Stacking (XGS3700 series only)
(Stacking port are port 27/28 of XGS3700-24/24HP; Port 51/52 of XGS3700-48/48HP)
2. ACL 2.0
3. ECMP MAX Config
4. IP port move for VM
5. Voice VLAN
6. MAC based VLAN
7. LLDP enabled by default
8. Remove VLAN Counter

Known Issue:

1. **[ACL]** A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. **[STP]** When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole network, the network will loop.
[Workaround]
 - Use the same STP protocol on the whole network.
3. **[IPv6]** Port movement of IPv6 address is not supported currently.
[Workaround]
 - Waiting for MAC address timeout
 - Clear MAC address for the host entry.
4. **[LACP]** When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
[Workaround]
 - Change the LACP to Static Trunk.
5. **[VLAN]** Configure private VLAN with follow features are not recommend:
 - VLAN stacking
 - VLAN mapping
 - Remote port mirroring[Symptom]
 - Private VLAN behavior may be affected.
6. **[VLAN]** Configuring port isolation with remote port mirroring is not recommended.
[Symptom]
 - Port isolation function may affect.
7. **[Diagnostic]** The cable diagnostic tolerance is +-10M length.
8. **[Log]** Alignment error packet will count in CRC error counter.
9. **[Routing]** Switch learn 1K hosts entry already, after clear all ARP entry, switch may need 3~4 minutes to re-learn all host entry.
[Symptom]
 - Before all hosts re-learn back to switch, some of hosts will not be able to forward by VLAN routing.[Condition]
 - 1K hosts learn on the switch, then reboot device.
 - 1K hosts learn on the switch, then enter clear ARP table.
10. **[LLDP]** LLDP management address will not refresh immediately.
[Condition]
(192.168.1.1) Switch1-----Switch2 (192.168.1.2)
 - Switch1 and Switch2 enable LLDP.
 - Switch1 can know the Switch2 management IP is 192.168.1.2 via LLDP.
 - Switch2 changes ip address to 192.168.1.3
 - Both 192.168.1.2 and 192.168.1.3 entry will display on the Switch1 LLDP page.[Workaround]
Waiting for 30 seconds then it will automatic refresh.

Stacking Know Issue:

1. **[Flow Control]** Flow control does not support traffic cross stacking devices.
[Condition]
PC1-----Slot1---Slot2----PC2
 - The flow control will not inform PC1 to slow down when PC2 is overloading with this topology.

2. **[Log]** When switch reboot, the coldstart/warmstart trap will send after bootup 4 minutes.
3. **[IPv6]** With ipv6 static route setting and save. After switch reboot, ipv6 traffic cannot be routing by ipv6 static route.
[Workaround]
Re-Configure ipv6 static route.
4. **[CLI]** When enter “show running-config”, switch will display slowly if stacking member up to 8 due to port number increase.
5. **[Stacking]** Replace inactive slot with different model, some setting will not erase to default.
[Condition]
Following function may not be erased to default when you replace the different model to stacking system.
 - IPv6
 - Mirror
 - RMirror
 - IPSPG
 - MVR
 - Link Aggregation
 [Workaround]
 - Delete the slot configuration before you insert the different model to stacking system.
 - Strongly to recommend user to use the same model to replace stacking member.

Bug fix:

1. **[System]** System crash with exception on eventCmdProc or Memory cookies destroyed.
2. **[System]** System will encounter socket error, when socket leakage.
3. **[System]** Fix Misfortune Cookie cause switch crash.
4. **[System]** Enter “show tech-support” command that will make switch hang.
5. **[MGMT]** Upgrade the firmware via TFTP, during the switch writing the flash, PC could not ping the switch successfully.
6. **[STP]** Switch enable LACP+MSTP and connect with Cisco 3750, port state may stay at BLOCKING.
7. **[STP]** After disable MSTP and re-enable MSTP again, the MSTP will not work.
8. **[802.1x]** Dynamic VLAN Assignment approved for VLAN10 in the Juniper server, but VLAN100 approved in the switch.
9. **[IPv6]** Some host IP exist in IPv6 neighbor table, but not exist in hardware IP6host table, it cause CPU high due to the host route by software.

Limitation of Settings (Standalone Mode):

1.	VLAN 1Q static entry	4K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	IP routing domain	128
6.	IGMP Filtering entry	256
7.	IGMP MVR entry	256
8.	VRRP entry	64
9.	Protocol based VLAN entries per port	7
10.	Port-security max address-limit number	16K
11.	DHCP Server	16
12.	Syslog server entry	4
13.	IP source guard entry	1K
14.	IP subnet based VLAN entry	16

15.	MVR VLAN entry	5
16.	Vlan-stacking Selective QinQ entry	1K
17.	Vlan-mapping entry	1K
18.	MAC table	16K
19.	Routing table	1k
20.	DHCP snooping binding table	16K
21.	Routing path	512
22.	Multicast group	1K
23.	ACL	384
24.	Policy route	64
25.	DHCP option 82 profile	130
26.	Remote port monitoring vlan	10
27.	trtcm DSCP profiles	max number of port
28.	static arp entry	256
29.	Static route max entry	64
30.	MAC-based VLAN	1024
31.	Voice VLAN OUI entry	10
32.	ZON neighbor per-port maximum clients	10

Limitation of Settings (Stacking Mode):

1.	VLAN 1Q static entry	4K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	IP routing domain	128
5.	IGMP Filtering entry	256
6.	IGMP MVR entry	256
7.	VRP entry	64
8.	Protocol based VLAN entries per port	7
9.	Port-security max address-limit number	16K
10.	DHCP Server	16
11.	Syslog server entry	4
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22.	ACL	384
23.	Policy route	64
24.	DHCP option 82 profile	130
25.	Remote port monitoring vlan	10
26.	trtcm DSCP profiles	max number of port
27.	static arp entry	256
28.	Static route max entry	64
29.	Stacking max devices	8
30.	MAC-based VLAN	1024
31.	Voice VLAN OUI entry	10
32.	ZON neighbor per-port maximum clients	10

Firmware Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP FW:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 420AAGF0C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 420AAGF0C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP configuration:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 420AAGF0C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 420AAGF0C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in XGS3700-48HP

ZyXEL XGS3700-48HP V4.10(AAGF.6)C0

Release Note/Manual Supplement

Date: Sep. 16, 2014

This document describes the features in the **XGS3700-48HP** for its 4.10(AAGF.6)C0 release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.6)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.6) | 09/16/2014 15:40:7

Bootbase Version : V1.00 | 03/27/2013 21:18:27

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.6) 09/16/2014 15:40:7
Bootbase Version	V1.00 03/27/2013 21:18:27
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	00
RomFile Checksum	6121
ZyNOS Checksum	d875
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 48 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (Support DDMI)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table
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10. 64 routing path
11. 1K multicasting group
12. 2MB packet buffer.
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26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
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31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
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38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
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42. Static multicast
43. Administration user management
44. Multiple RADIUS server
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46. IEEE 802.1w RSTP
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50. SNMPv3 support
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59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
65. Authorization on TACACS+
66. VLAN counter
67. Layer 2 protocol tunneling
68. Support 802.3ah standard MIB
69. MLD snooping proxy

70. DHCPv6: client and relay
71. ICMPv6
72. IPv6 Path MTU
73. NDP: host and router
74. IPv6 address stateless auto-configuration: host and router
75. IPv6 static route
76. Guest VLAN
77. Password encryption
78. User access right
79. PPPoE IA and option 82
80. ECMP
81. 384 ACL
82. 64 Policy route
83. Configurable ARP learning mode
84. Recovery mechanism for error-disabled port/reason.
85. CPU protection
86. sFlow
87. Private VLAN
88. Authorization on console
89. ARP Freeze
90. Static ARP setting
91. MAC pinning
92. Interface related trap can be enable/disable by port
93. Multiple default route
94. 802.1AB LLDP-MED
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96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
99. Dying gasp
100. DHCP Option82 per VLAN and per Port
101. Intrusion lock
102. DAC 10G
103. ES common MIB
104. ZyXEL One Network (ZON)
105. ZyXEL Neighbor Management
106. Web support : LLDP, LLDP-MED, Tech-support, Err-disable status, CPU utilization, Memory Utilization

Enhanced Features:

None

Known Issue:

1. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
3. Port movement of IPv6 address is not supported currently.
4. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
5. Configure private VLAN with follow features are not recommend
 - VLAN stacking
 - VLAN mapping
 - Remote port mirroring
6. The error is about +-10M for cable diagnostic resolution.
7. Configuring port isolation with remote port mirroring is not recommend

Bug fix:

1. [FCIR_20140827_0001] Device hangs when receive LLDP-MED packet, and LLDP TTL=0 packet, and then port link down
2. The switch crashes when getting the IPv6 address with max length and clicking IPv6 index via the web GUI.
3. Improve IP socket leak.

Limitation of Settings:

1. VLAN 1Q static entry	4K
2. Static MAC forwarding entry	256
3. MAC filtering entry	256
4. Cluster member	24
5. IP routing domain	128
6. IGMP Filtering entry	256
7. IGMP MVR entry	256
8. VRRP entry	64
9. Protocol based VLAN entries per port	7
10. Port-security max address-limit number	16K
11. DHCP Server	16
12. Syslog server entry	4
13. IP source guard entry	1K
14. IP subnet based VLAN entry	16
15. MVR VLAN entry	5
16. Vlan-stacking Selective QinQ entry	1K
17. Vlan-mapping entry	1K
18. MAC table	16K
19. Routing table	1k
20. DHCP snooping binding table	16K
21. Routing path	512
22. Multicast group	1K
23. ACL	384
24. Policy route	64
25. DHCP option 82 profile	130
26. Remote port monitoring vlan	10
27. trtcn DSCP profiles	max number of port
28. static arp entry	256
29. Static route max entry	64

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```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF6C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default

- 410AAGF6C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

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C:\> ftp <XGS3700-48HP IP address>
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Where

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- Password : the management password, 1234 by default
- 410AAGF6C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in XGS3700-48HP

ZyXEL XGS3700-48HP V4.10(AAGF.5)C0

Release Note/Manual Supplement

Date: Jul. 18, 2014

This document describes the features in the **XGS3700-48HP** for its 4.10(**AAGF.5**)**C0** release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.5)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.5) | 07/18/2014 17:22:38

Bootbase Version : V1.00 | 03/27/2013 21:18:27

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.5) 07/18/2014 17:22:38
Bootbase Version	V1.00 03/27/2013 21:18:27
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	00
RomFile Checksum	1976
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SNMP MIB level & OID	060102030405060708091011121314151617181920
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Features:

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93. Multiple default route
94. 802.1AB LLDP-MED
95. DHCP option 82 profile
96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
99. Dying gasp
100. DHCP Option82 per VLAN and per Port
101. Intrusion lock
102. DAC 10G
103. ES common MIB

Enhanced Features:

1. ZyXEL One Network (ZON)
2. ZyXEL Neighbor Management
3. Web support : LLDP, LLDP-MED, Tech-support, Err-disable status, CPU utilization, Memory Utilization

Known Issue:

1. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
3. Port movement of IPv6 address is not supported currently.
4. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
5. Configure private VLAN with follow features are not recommend
 - VLAN stacking
 - VLAN mapping
 - Remote port mirroring
6. The error is about +-10M for cable diagnostic resolution.
7. Configuring port isolation with remote port mirroring is not recommend

Bug fix:

1. [FCIR_20131205_0001] [FCIR_20131216_0001] Power off and power on the device during system reboot process, all port will be inactive in show running. It seems that rom file is broken.
2. [FCIR_20131216_0002] Errorlog message is not correct for hardware monitor FAN error
3. [FCIR_20131217_0001] When checksum of firmware image 1 is error, switch does not change to image 2.
4. [FCIR_20131226_0001]
 - LLDP is disabled.
 - 1. In "LLDP Port Information" web page, all port's "Port ID" are showed 1.
 - 2. In "LLDP Local Port Status Detail" web page, all port's "Port ID" are showed 1.
 - 3. In LLDP Local Port Status Detail, some filed status should show "No", not show "Yes".
5. [FCIR_20140117_0001] ARP packet send back to incoming port, makes CISCO switch have a MAC Flapping log.
6. [FCIR_20140205_0001] Use Web to configure MLD snooping leave mode per port, immediate mode and Fast mode are inconsistent between CLI and WEB.
7. [FCIR_20140205_0002] In spanning tree and static trunk environment, the host's mac will be learned to wrong port.
8. [FCIR_20140217_0001] Send IGMP join packet. Keep the group alive. Show technical support overnight. The DUT happen memory leak
9. [FCIR_20140218_0001] When group two or more ports and just link up one of these ports, DUT sends two or more different LLDP packets on the same port.
10. [FCIR_20140218_0002] DHCP relay stopped working
11. [FCIR_20140226_0001] When we use ipv6 link-local URL to access the switch web UI on windows XP, pages with indirect URL are unaccessible. User cannot access the error.html when configuration is wrong. Also, user cannot upgrade firmware via ipv6 link-local address and will cause huge memory leak in this environment (after firmware upgrading, check 'sys memu usage' in zynos mode).
12. [FCIR_20140313_0001] CLI will be hung when set "sys stdio 0" in zynos mode with console, but telnet is OK.
13. [FCIR_20140317_0001] Send two lldp packets (with system description length = 255) to an lldp enabled port will cause DUT crash.
14. [FCIR_20140401_0001] Upgrade firmware which syslog size is modified(ex. FCS+2 to FCS+3), switch will crash after reboot twice
15. [FCIR_20140403_0001] When trunk responsible port is link down and edge port is disabled, add new trunk group member and enable RSTP, the ports will loop.
16. [FCIR_20140409_0001] When enabled IGMP snooping, IGMP general query received by DUT will be replaced with its own source mac.
17. [FCIR_20140410_0001] When IGMP snooping of switch is configured with: 1. fast leave mode or 2.normal leave mode with IGMP snooping querier enabled and no IGMP report-proxy, once it receives a IGMP leave packet, it sends out group-specific queries without source MAC address (source MAC = 00: 00: 00: 00: 00: 00).
18. [FCIR_20140411_0001] User can't be authorized when privilege of account is Cisco attribute and privilege level is 15.
19. [FCIR_20140411_0002] When enable igmp-snooping, DUT will reset report-proxy when receiving Group-Specific Query (GSQ).
20. [FCIR_20140424_0001] LLDP-MED doesn't work with IP phone
21. [FCIR_20140425_0001] DUT crash after restore MAX VLAN configuration
22. [FCIR_20140425_0002] For creating script for MIB testing, length of MLD snooping proxy port list is different from GS3700.
23. [FCIR_20140428_0001] When trunk responsible port is link down and edge port is disabled, add new trunk group member and enable RSTP, the ports will loop.
24. [FCIR_20140506_0001] If subtype of remote PortId is mac-address. It can't be showed on lldp remote device information.
25. [FCIR_20140514_0001] LLDP task will stop and make the LLDP packet can't send out periodically.
26. [FCIR_20140520_0001] Write memory, upload firmware and something need write rom may cause system hang.
27. [FCIR_20140521_0001] DUT crash when do no multi-login via TELNET/SSH.

28. [FCIR_20140521_0002] Set MIB traceroute IP address entry, the IP address could not set successfully.

Limitation of Settings:

1.	VLAN 1Q static entry	4K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	IP routing domain	128
6.	IGMP Filtering entry	256
7.	IGMP MVR entry	256
8.	VRRP entry	64
9.	Protocol based VLAN entries per port	7
10.	Port-security max address-limit number	16K
11.	DHCP Server	16
12.	Syslog server entry	4
13.	IP source guard entry	1K
14.	IP subnet based VLAN entry	16
15.	MVR VLAN entry	5
16.	Vlan-stacking Selective QinQ entry	1K
17.	Vlan-mapping entry	1K
18.	MAC table	16K
19.	Routing table	1k
20.	DHCP snooping binding table	16K
21.	Routing path	512
22.	Multicast group	1K
23.	ACL	384
24.	Policy route	64
25.	DHCP option 82 profile	130
26.	Remote port monitoring vlan	10
27.	trtcn DSCP profiles	max number of port
28.	static arp entry	256
29.	Static route max entry	64

Firmware Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP FW:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF5C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF5C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP configuration:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF5C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF5C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in XGS3700-48HP

ZyXEL XGS3700-48HP V4.10(AAGF.4)C0

Release Note/Manual Supplement

Date: Mar. 31, 2014

This document describes the features in the **XGS3700-48HP** for its 4.10(AAGF.4)C0 release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.4)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.4) | 03/31/2014 11:34:37

Bootbase Version : V1.00 | 03/27/2013 21:18:27

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.4) 03/31/2014 11:34:37
Bootbase Version	V1.00 03/27/2013 21:18:27
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	61
RomFile Checksum	f2ca
ZyNOS Checksum	f0e5
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 48 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (Support DDMI)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table
9. 1K IP address table

10. 64 routing path
11. 1K multicasting group
12. 2MB packet buffer.
13. IEEE 802.1D transparent bridging
14. Port-based VLAN
15. IEEE 802.1Q tag-based VLAN
16. Protocol-based VLAN
17. IP subnet based VLAN
18. GVRP
19. VRRP
20. IEEE802.1ad Double tagging
21. Selective QinQ
22. MAC filtering
23. Management through console, telnet, SNMP or web management
24. Firmware upgrade by FTP/TFTP
25. TFTP client / server
26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
29. 9K jumbo frame
30. Filtering/Mirroring by L2/L3/L4 rules
31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
36. IGMP filtering
37. MVR
38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
41. IGMP throttling
42. Static multicast
43. Administration user management
44. Multiple RADIUS server
45. Multiple TACACS+ servers
46. IEEE 802.1w RSTP
47. ZyXEL MRSTP
48. IEEE 802.1s MSTP
49. IEEE 802.3ah OAM
50. SNMPv3 support
51. 1K IP source guard
52. TRTCM
53. MAC authentication
54. Authentication & accounting by RADIUS / TACACS+
55. Loopguard
56. Daylight saving time support
57. IEEE 802.1ag CFM
58. IEEE 802.1AB LLDP
59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
65. Authorization on TACACS+
66. VLAN counter
67. Layer 2 protocol tunneling
68. Support 802.3ah standard MIB
69. MLD snooping proxy

70. DHCPv6: client and relay
71. ICMPv6
72. IPv6 Path MTU
73. NDP: host and router
74. IPv6 address stateless auto-configuration: host and router
75. IPv6 static route
76. Guest VLAN
77. Password encryption
78. User access right
79. PPPoE IA and option 82
80. ECMP
81. 384 ACL
82. 64 Policy route
83. Configurable ARP learning mode
84. Recovery mechanism for error-disabled port/reason.
85. CPU protection
86. sFlow
87. Private VLAN
88. Authorization on console
89. ARP Freeze
90. Static ARP setting
91. MAC pinning
92. Interface related trap can be enable/disable by port
93. Multiple default route
94. 802.1AB LLDP-MED
95. DHCP option 82 profile
96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
99. Dying gasp
100. DHCP Option82 per VLAN and per Port
101. Intrusion lock
102. DAC 10G

Known Issue:

1. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
3. Port movement of IPv6 address is not supported currently.
4. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
5. Configure private VLAN with follow features are not recommend
 - VLAN stacking
 - VLAN mapping
 - Remote port mirroring
6. The error is about +-10M for cable diagnostic resolution.
7. Configuring port isolation with remote port mirroring is not recommend

Bug fix:

1. ifOutUcastPkts entry count packet incorrectly on XE port.
2. System crash when upgrade firmware from FCS+2 to FCS+3 b1.

Enhanced Features:

- 1.

Limitation of Settings:

1.	VLAN 1Q static entry	4K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	IP routing domain	128
6.	IGMP Filtering entry	256
7.	IGMP MVR entry	256
8.	VRRP entry	64
9.	Protocol based VLAN entries per port	7
10.	Port-security max address-limit number	16K
11.	DHCP Server	16
12.	Syslog server entry	4
13.	IP source guard entry	1K
14.	IP subnet based VLAN entry	16
15.	MVR VLAN entry	5
16.	Vlan-stacking Selective QinQ entry	1K
17.	Vlan-mapping entry	1K
18.	MAC table	16K
19.	Routing table	1k
20.	DHCP snooping binding table	16K
21.	Routing path	512
22.	Multicast group	1K
23.	ACL	384
24.	Policy route	64
25.	DHCP option 82 profile	130
26.	Remote port monitoring vlan	10
27.	trtcn DSCP profiles	max number of port
28.	static arp entry	256
29.	Static route max entry	64

Firmware Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP FW:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF4C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF4C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP configuration:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF4C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF4C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in XGS3700-48HP

ZyXEL XGS3700-48HP V4.10(AAGF.3)C0

Release Note/Manual Supplement

Date: Mar. 28, 2014

This document describes the features in the **XGS3700-48HP** for its 4.10(**AAGF.3**)**C0** release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.3)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.3) | 03/28/2014 15:29:42

Bootbase Version : V1.00 | 03/27/2013 21:18:27

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.3) 03/28/2014 15:29:42
Bootbase Version	V1.00 03/27/2013 21:18:27
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	61
RomFile Checksum	f2ca
ZyNOS Checksum	4444
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 48 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (Support DDMI)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table
9. 1K IP address table

10. 64 routing path
11. 1K multicasting group
12. 2MB packet buffer.
13. IEEE 802.1D transparent bridging
14. Port-based VLAN
15. IEEE 802.1Q tag-based VLAN
16. Protocol-based VLAN
17. IP subnet based VLAN
18. GVRP
19. VRRP
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21. Selective QinQ
22. MAC filtering
23. Management through console, telnet, SNMP or web management
24. Firmware upgrade by FTP/TFTP
25. TFTP client / server
26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
29. 9K jumbo frame
30. Filtering/Mirroring by L2/L3/L4 rules
31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
36. IGMP filtering
37. MVR
38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
41. IGMP throttling
42. Static multicast
43. Administration user management
44. Multiple RADIUS server
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46. IEEE 802.1w RSTP
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59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
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66. VLAN counter
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74. IPv6 address stateless auto-configuration: host and router
75. IPv6 static route
76. Guest VLAN
77. Password encryption
78. User access right
79. PPPoE IA and option 82
80. ECMP
81. 384 ACL
82. 64 Policy route
83. Configurable ARP learning mode
84. Recovery mechanism for error-disabled port/reason.
85. CPU protection
86. sFlow
87. Private VLAN
88. Authorization on console
89. ARP Freeze
90. Static ARP setting
91. MAC pinning
92. Interface related trap can be enable/disable by port
93. Multiple default route
94. 802.1AB LLDP-MED
95. DHCP option 82 profile
96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
99. Dying gasp
100. DHCP Option82 per VLAN and per Port
101. Intrusion lock
102. DAC 10G

Known Issue:

1. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
3. Port movement of IPv6 address is not supported currently.
4. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
5. Configure private VLAN with follow features are not recommend
 - VLAN stacking
 - VLAN mapping
 - Remote port mirroring
6. The error is about +-10M for cable diagnostic resolution.
7. Configuring port isolation with remote port mirroring is not recommend

Bug fix:

1. [FCIR_20130513_0001] DHCP server responds to DHCPINFORM message by sending a DHCPACK to relay agent. The DHCPACK's "yiaddr" is wrong
2. [FCIR_20130517_0001] The priority of HTTP task is TASK_PRI_NORMAL (0x14). When upgrade F/W or restore configuration through WEB, the priority of HTTP task will change to TASK_PRI_LOWEST (0x1e) – 1
3. [FCIR_20130605_0001] Reset those timer variables again when overflow

4. [FCIR_20130624_0001] When switch reply LLDP MED PDU and then port link down, system crash.
5. [FCIR_20130709_0002] DUT crash after sending into a fake DHCP packet
6. [FCIR_20130712_0001] DUT crash when setup DHCP option profile
7. [FCIR_20130715_0001] DUT crash when setup H/W monitor voltage limit
8. [FCIR_20130718_0001] Disable ARP-learning mode but DUT disable wrong port
9. [FCIR_20130724_0001] In spanning tree + static trunk environment, the host's mac will be learned to wrong port.
10. [FCIR_20130724_0002] When MAC Move occurs, the host's mac will be learned to wrong port.
11. [FCIR_20130814_0001] In Web, when set Queues weight over range, the warning message is incorrect.
12. [FCIR_20130815_0001] In Web, when setting MRSTP port path cost to invalid value, the error message shows error
13. [FCIR_20130820_0001] 1. When SilverCreek run ipNetToMediaTable (OID: 1.3.6.1.2.1.4.22) and SNMPc view the table, DUT will crash. 2. When SilverCreek run IP (OID: 1.3.6.1.2.1.4) scripts and SNMPc view all ip table, DUT will crash.
14. [FCIR_20130820_0002] IGMP querier setting is disable, but DUT send out general query after DUT's querier port timeout.
15. [FCIR_20130823_0001] DUT crash when MIB Browser walk zylgmpSnoopingGroupCountPortNumber.
16. [FCIR_20130823_0002] When SilverCreek to test the zyxellpv6PathMtu table, DUT will crash.
17. [FCIR_20130828_0001] In web set subnet-based VLAN entry with multicast or reserved IP address, write memory, restore configuration, DUT pop error message.
18. [FCIR_20130830_0001] Standard MIB sysObjectID should be enterpriseSolution
19. [FCIR_20130830_0002] Cluster two devices, ftp login into cluster manager, after put/get member configuration, allocated memory does not free
20. [FCIR_20130830_0003] mac authentication timeout works incorrectly, when radius-server timeout is less than mac-authentication timeout.
21. [FCIR_20130913_0001] Device crash when backup huge configuration to FTFP server via SSH version 1
22. [FCIR_20131002_0001] doing fiber port link down/up overnight test, DUT crash
23. [FCIR_20131022_0001] TCP session state is always FINWAIT2 and the session is not terminated
24. [FCIR_20131104_0001] When system log is full, every newly add log will add a table full log into error log.
25. [FCIR_20131128_0001] Device crash when add and delete cluster members continuously, or login and logout through SSH, telnet, or FTP interface continuously
26. [FCIR_20131129_0001] A workaround solution for MBUF leakage.
27. [FCIR_20131206_0001] ALARM LED cannot keep turn ON after HTP burn in test is failed
28. [FCIR_20131211_0001] If the management address type is ipv6, management address of "show LLDP info remote interface port-channel" will be abnormal format(mac-address format)
29. [FCIR_20131213_0001] When machine occurs to electric power failure
1. Error log cannot be cleared by command "sys errlog clear". 2. Error log cannot be saved to flash
30. Extend the default value of OP_QUEUE_CONFIG_CELL <Q_SHARED_LIMIT_CELL>. When enable WRR or WFQ, the value is decreased.
31. Fixed MIB style for what's up and remove unnecessary imports
32. [Backup] Set AAA authorization console command, should be saved after write memory and reboot
33. [MSTP and Trunk] MSTP and static trunk IOP test will fail.
34. Send IGMP join packet. Keep the group alive. Show technical support overnight. The DUT is memory leak

Enhanced Features:

1. Enlarge the syslog entry to 10000

2. errlog/syslog save to rom at the same time
3. crash dump save to Rom (command "sys dbg disp")
4. Add a comment "show tech support" (command "show tech support")
5. show IP at " NO authentication: Telnet authentication failure [username: admin]
6. Add a log when memory section changed
7. Add power supply status in hardware monitor
8. Support ES common MIB

Limitation of Settings:

1. VLAN 1Q static entry	4K
2. Static MAC forwarding entry	256
3. MAC filtering entry	256
4. Cluster member	24
5. IP routing domain	128
6. IGMP Filtering entry	256
7. IGMP MVR entry	256
8. VRRP entry	64
9. Protocol based VLAN entries per port	7
10. Port-security max address-limit number	16K
11. DHCP Server	16
12. Syslog server entry	4
13. IP source guard entry	1K
14. IP subnet based VLAN entry	16
15. MVR VLAN entry	5
16. Vlan-stacking Selective QinQ entry	1K
17. Vlan-mapping entry	1K
18. MAC table	16K
19. Routing table	1k
20. DHCP snooping binding table	16K
21. Routing path	512
22. Multicast group	1K
23. ACL	384
24. Policy route	64
25. DHCP option 82 profile	130
26. Remote port monitoring vlan	10
27. trtcm DSCP profiles	max number of port
28. static arp entry	256
29. Static route max entry	64

Firmware Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP FW:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF3C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF3C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP configuration:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF3C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF3C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in XGS3700-48HP

ZyXEL XGS3700-48HP V4.10(AAGF.2)C0

Release Note/Manual Supplement

Date: May. 16, 2013

This document describes the features in the **XGS3700-48HP** for its 4.10(AAGF.2)C0 release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.2)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.2) | 05/16/2013 10:38:34

Bootbase Version : V1.00 | 03/27/2013 21:18:27

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.2) 05/16/2013 10:38:34
Bootbase Version	V1.00 03/27/2013 21:18:27
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	39
RomFile Checksum	3f23
ZyNOS Checksum	a990
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 48 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (Support DDMI)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table
9. 1K IP address table

10. 512 routing path
11. 1K multicasting group
12. 2MB packet buffer.
13. IEEE 802.1D transparent bridging
14. Port-based VLAN
15. IEEE 802.1Q tag-based VLAN
16. Protocol-based VLAN
17. IP subnet based VLAN
18. GVRP
19. VRRP
20. IEEE802.1ad Double tagging
21. Selective QinQ
22. MAC filtering
23. Management through console, telnet, SNMP or web management
24. Firmware upgrade by FTP/TFTP
25. TFTP client / server
26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
29. 9K jumbo frame
30. Filtering/Mirroring by L2/L3/L4 rules
31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
36. IGMP filtering
37. MVR
38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
41. IGMP throttling
42. Static multicast
43. Administration user management
44. Multiple RADIUS server
45. Multiple TACACS+ servers
46. IEEE 802.1w RSTP
47. ZyXEL MRSTP
48. IEEE 802.1s MSTP
49. IEEE 802.3ah OAM
50. SNMPv3 support
51. 1K IP source guard
52. TRTCM
53. MAC authentication
54. Authentication & accounting by RADIUS / TACACS+
55. Loopguard
56. Daylight saving time support
57. IEEE 802.1ag CFM
58. IEEE 802.1AB LLDP
59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
65. Authorization on TACACS+
66. VLAN counter
67. Layer 2 protocol tunneling
68. Support 802.3ah standard MIB
69. MLD snooping proxy

70. DHCPv6: client and relay
71. ICMPv6
72. IPv6 Path MTU
73. NDP: host and router
74. IPv6 address stateless auto-configuration: host and router
75. IPv6 static route
76. Guest VLAN
77. Password encryption
78. User access right
79. PPPoE IA and option 82
80. ECMP
81. 384 ACL
82. 64 Policy route
83. Configurable ARP learning mode
84. Recovery mechanism for error-disabled port/reason.
85. CPU protection
86. sFlow
87. Private VLAN
88. Authorization on console
89. ARP Freeze
90. Static ARP setting
91. MAC pinning
92. Interface related trap can be enable/disable by port
93. Multiple default route
94. 802.1AB LLDP-MED
95. DHCP option 82 profile
96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
99. Dying gasp
100. DHCP Option82 per VLAN and per Port
101. Intrusion lock
102. DAC 10G

Known Issue:

1. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
3. Port movement of IPv6 address is not supported currently.
4. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
5. Configuring private VLAN with follow features are not recommend
 - VLAN stacking
 - VLAN mapping
 - Remote port mirroring
6. Configuring port isolation with remote port mirroring is not recommend
7. When using SilverCreek to test the zyxelManagement (OID: 1.3.6.1.4.1.890.1.15.3.49), CLI will pop error message and restore configuration will cost much time.
8. The zyxelVlanCounterStatus (OID: 1.3.6.1.4.1.890.1.15.3.87.2) counters can't be added.
9. It only create 8 static route entry. When create over 8 entry, CLI will pop error messages.
10. In default configure, send port pair traffics in unit 1, then send the learned packets in unit 2, the learned packets will broadcast to other ports.
11. Flow control could not load balance cross unit.
12. after system voltage value was back from error to normal, a recovered log should be display when show logging (ex: System voltage has recovered to normal state)

13. Due to the radius server IP problem (set wrong/inexistence radius server IP),SNMPc should send trap(s) "RADIUS server not reachable" for each time user try to re-logging through Radius server (not only display the trap once)
14. When create policy route and the destination interface include DUT's management IP, then telnet or use web to DUT is fail
15. The log-buffer entries display abnormal in ARP inspection log-buffer function. The number of total number of logs is over setting number.
16. Set mirror port direction is adding or removing, not over writing .
17. In bandwidth control, the received rate in connected port should follow egress setting in egress port, not ingress port setting.
18. In VLAN stacking, mirror the access port and the direction is both, the ether type in connected port should be 8100, not 9100.
19. In ipv6 static route, the prefix length only configure ≤ 64 , not configure > 64 .
20. In maximum ipv6 static route, after backup and restore the configure file or reboot device, the last L3 ipv6 traffic could not forward to the next hop. After a period of time (>30 seconds), the last L3 ipv6 traffic can forward to the next hop.
21. Send continuous ipv6 traffic to next hop via ipv6 static route, it could not send to next hop after modifying the ipv6 static route. It must stop ipv6 traffic and modify ipv6 static route, then send ipv6 traffic, the traffic will forward to the next hop.
22. The error is about +-10M for cable diagnostic resolution.
23. VRRP can response ping cross different routing domain. But, it could not response traceroute.

Bug fix:

1. [ACL] When create 254 classifiers join policy rule via web, use CLI to show running-configuring, the DUT crash.
2. [Rmirror VLAN] In web page, create 3 Rmirror VLAN ruler, it will pop error message. Remove 2nd Rmirror VLAN ruler, and create 3rd Rmirror VLAN ruler, the mirror port setting will be inconsistent between CLI and Web.
3. [Logging] In show logging, system will hang up when display over 800 entries.
4. [MIB-zyxelErrdisable]The zyxelErrdisableTrapInfoObject (OID: 1.3.6.1.4.1.890.1.15.3.24.3) table can't show any value via SNMPc or MIB Browser. (400 version is OK)
5. [MIB-zyxelIf]When using SilverCreek to create zyIfRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.27.1.3.1.3) rules, it will pop "Agent returned malformed instance identifier Index mapping rules: object identifier-valued or string-valued, variable-length strings (not preceded by the IMPLIED keyword): 'n+1' sub-identifiers, where 'n' is the length of the string 1 octet length sub-id for index ZYXEL-IF-MIB:zyIfId of object ZYXEL-IF-MIB:zyIfRowStatus.1.1 does not match available subids." error message.
6. [MIB-zyxelIcmp]DUT doesn't support the zyxelIcmp (OID: 1.3.6.1.4.1.890.1.15.3.29) function. Please remove it.
7. [MIB-zyxelLoadSharing] When getting and setting the zyxelLoadSharing (OID: 1.3.6.1.4.1.890.1.15.3.44) table, DUT will crash.
8. [MRSTP+LACP] The MRSTP with LACP didn't work when unplug/plug port.
9. [System] The DUT will crash when MRSTP+LACP test.
10. [MIB-zyxelRip] When setting the zyRipDistance (OID: 1.3.6.1.4.1.890.1.15.3.74.1.2), DUT will crash.
11. [MIB-zyxelSnmp] The zySnmpTrapDestinationRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.76.1.5.1.5) can't be created via SNMPc or MIB Browser.
12. [MIB-zyxelTransceiver] The zyxelTransceiverDdmiTable (OID: 1.3.6.1.4.1.890.1.15.3.84.1.2) can't show value correctly via SNMPc.
13. [MIB-zyxelVlanStack] The zyxelSelectiveQinQTable (OID: 1.3.6.1.4.1.890.1.15.3.89.1.4) can't be set via SNMPc or MIB Browser.
14. [IPSG] When show maximum IPSG entries, CLI will hang up.
15. [MAC-Pinning] When send ARP packet, then mac-pinning function fails.
16. [MIB-transmission] The dot3StatsTable (OID: 1.3.6.1.2.1.10.7.2) table doesn't show any value via SNMPc or MIB Browser.
17. [RMirror] The LED still bright after erase running-configuration.
18. [DHCP] Create DHCP Relay VLAN per port setting, then backup configuration fails and CLI will hang up.

19. [DHCP] Create DHCP Relay VLAN per port setting, then CLI pop error message when show running-configuring.
20. [MIB-zyxellpsg] When using SilverCreek to test the zyArpFreeze (OID: 1.3.6.1.4.1.890.1.15.3.33.1.1), DUT will crash.
21. [Broadcast Storm Control] The rate minimum value is 2, not 0.
22. [IGMP-snooping] When reload configuration, CLI pop error message.
23. [Port Move] After port move, the MAC type in MAC table should be dynamic, not static.
24. [ACL] The classifier rule only create 192, and policy rule only 128.
25. [DHCP] In DHCP snooping, DHCP relay (smart relay, VLAN based relay), profile could not compatible with previous option, information.
26. [Flow Control] In either 10M/full or 10M/half mode, when traffic is congestion, the received rate from incoming traffic could not balance
27. DHCP Snooping] "Option 82" should be option82 with no space (match the word option82 in DHCP Relay)
28. [MSTP] In RSTP, MRSTP, MSTP, port 1 information should display as "port 01 info", not "port 1 info". It should keep the consistence with the previous product.
29. [Out-Of-Band] Use Out-Of-Band port to access device via web page, CLI will pop error messages.
30. [VLAN-stacking] When port-security + QinQ access port didn't workable.
31. [Interface] When port 1 set speed-duplex 100-full, the link status display 100M/H.
32. [Intrusion-Lock] The GS3700-24HP/XGS3700-48HP should support intrusion-lock.
33. [Clone] The clone lack port "related trap" for CLI and Web.
34. [sflow] The string is wrong. It should "sflow", not "sFlow".
35. [TRTCM] When reload configuration, CLI pop error message.
36. [Loopguard] The loopguard re-active issue.
37. [IPSG] The rate is abnormal when enable IPSG.
38. [Service Access Control] Enable SSH function with specific port, SSH should be display in the show run
39. [Mirror] When mirrored port and monitor port are in different unit, sometimes, monitor port could not receive any traffic from mirrored port.
40. [Access Control] erase running configuring, device should reset all to default
41. [Port Security] In show port security with specified port index, the entry has wrong index.
42. [MVR] When MVR delete all check box via web, web return error message.
43. [MIB-zyxelDhcpRelay]When setting the invalid value to zyDhcpRelayGlobalRelayOption82Profile (OID: 1.3.6.1.4.1.890.1.15.3.18.1.1.4), it should pop error message. (The zyDhcpRelayGlobalRelayState is disabled)
44. [MIB-zyxelDhcpRelay]The zyDhcpRelayGlobalRelayOption82PortProfile (OID: 1.3.6.1.4.1.890.1.15.3.18.1.1.6.1.1) can't set to Port28.
45. [MIB-zyxelDhcpRelay]The zyDhcpRelayVlanRelayOption82VlanPortProfile (OID: 1.3.6.1.4.1.890.1.15.3.18.1.2.6.1.1) can't set to Port28.
46. [MIB-zyxelDhcpSnooping]The zyDhcpSnoopingOption82VlanPortProfile (OID: 1.3.6.1.4.1.890.1.15.3.20.1.7.1.1) can't set to Port28.
47. [MIB-zyxelDhcpv6]Setting the zyDhcpv6RelayOptionIfldState (OID: 1.3.6.1.4.1.890.1.15.3.21.1.2.1.4) from enabled (1) to disabled (2) will fail.
48. [MIB-zyxelDhcpv6] When setting the zyDhcpv6RelayOptionRemotIdData (OID: 1.3.6.1.4.1.890.1.15.3.21.1.2.1.5) to 65 characters, it should pop error message.
49. [PoE] In consumption mode, when all PDs connect to the device, consumption power will exceed total power. The behavior is abnormal.
50. [MIB-zyxelDhcpv6] The zyDhcpv6ClientIaTypeState (OID: 1.3.6.1.4.1.890.1.15.3.21.1.3.1.2) and zyDhcpv6ClientIaTypeRapidCommitState (OID: 1.3.6.1.4.1.890.1.15.3.21.1.3.1.3) default value should be 2 (disabled), not "0".
51. [IGMP-snooping] The IGMP-snooping fast leave didn't send specific query when receive leave packets.
52. [MIB-zyxelDhcpv6]The zyDhcpv6ClientInfoRefreshMinimum (OID: 1.3.6.1.4.1.890.1.15.3.21.1.3.1.6) can't set to max value - 4294967295 via SNMPc or MIB Browser.
53. [IGMP-snooping] The IGMP-snooping fast leave didn't send specific query when receive leave packets in MVR topology.
54. [Trap] In system group , it should not support external alarm.

55. [MIB-zyxelHwMonitor] The zyHwMonitorTemperatureIndex (OID: 1.3.6.1.4.1.890.1.15.3.26.1.2.1.1) value doesn't match the Web via SNMPc.
56. [PoE] When all PDs connect to device and reboot device, CLI will pop error message during reboot process.
57. [PoE] When all PD Power exceeds threshold power, DUT should send PoE trap.
58. [Trap Group] The trap logs should be define the same in both CLI and SNMPc
59. [Trap Group] Both "eventOnTrap" or "eventClearTrap" should be clear defined in SNMPc when Voltage event has been occurred or cleared
60. [MIB-zyxelCfm]The zyCfmManIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.13.1.2.2) can't set via SNMPc or MIB Browser.
61. [Trap Group] Both "eventOnTrap" or "eventClearTrap" should be clear defined in SNMPc when temperature event has been occurred or cleared
62. [Trap Group] Both "eventOnTrap" or "eventClearTrap" should be clear defined in SNMPc when fan speed event has been occurred or cleared
63. [MIB-zyxelgmpSnooping] The zylgmpSnoopingInfoVlanQueryPorts (OID: 1.3.6.1.4.1.890.1.15.3.31.2.2.1.3) should be 0x00:00:00:00:00:00:00:00, not 0x00:00:00:00.
64. [MIB-zyxelgmpSnooping]The zylgmpSnoopingGroupPorts (OID: 1.3.6.1.4.1.890.1.15.3.31.2.7.1.1.4) should be 0xf0:00:00:00:00:00:00:00, not 0xf0:00:00:00.
65. [MIB-zyxellpForward] Using "Get" way to get zyxellpRouteStatus (OID: 1.3.6.1.4.1.890.1.15.3.32.3) table value will fail. But using "Next Get" way is OK.
66. [MIB-zyxellpv6] The zylpv6DefaultGateway (OID: 1.3.6.1.4.1.890.1.15.3.34.1.5.1.7) can't be set via SNMPc or MIB Browser.
67. [MAC-Pinning] The mac-pinning and port-security didn't enable at the same time.
68. [MIB-zyxellpv6] When creating the max IPv6 rules and enable zylpv6State (OID: 1.3.6.1.4.1.890.1.15.3.34.1.5.1.2), it only can active 94 IPv6 rules.
69. [Static Arp] when both Static Arp and VLAN 1's IP were duplicated, VLAN 1 should be able to reset its IP back to default
70. [MIB-zyxellpv6Ndp] The zyNdpPrefixValidLifetime (OID: 1.3.6.1.4.1.890.1.15.3.35.1.3.1.5) can't set to max value via SNMPc or MIB Browser.
71. [MIB-zyxellpv6StaticRoute] The zylpv6StaticRouteNextHopIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.37.1.2.1.5) can't be set via SNMPc or MIB Browser.
72. [Port Security] Enable port security address limit :16384, DUT only learn to 16211 MAC Address.
73. [MIB-zyxelManagement] When using SilverCreek to test the zyxelManagement (OID: 1.3.6.1.4.1.890.1.15.3.49), CLI will pop error message - "arp_flush_by_iface : VPS not found".
74. [System log] system log should not include the word "eventClearTrap" when the log has been cleared
75. [MIB-zyxelMldSnoopingProxy] When setting the invalid value to zyMldSnoopingProxyFilteringProfileRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.51.1.2.1.6), it should pop error message.
76. [Syslog] syslog should not include the word "eventClearTrap" when the log has been cleared
77. [MIB-zyxelMldSnoopingProxy] Creating the zyMldSnoopingProxyVlanRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.51.3.5.1.2) to 5 (createAndWait) or 4 (createAndGo) will fail via SNMPc or MIB Browser.
78. [MIB-zyxelMldSnoopingProxy] The limiting value of the zyMldSnoopingProxyUpstreamVlanLastMemberQueryInterval (OID: 1.3.6.1.4.1.890.1.15.3.51.3.6.1.5) doesn't match the CLI (1~8387584).
79. [MIB-zyxelMldSnoopingProxy] When using SilverCreek to test the zyMldSnoopingProxyDownstreamVlanQueryInterval (OID: 1.3.6.1.4.1.890.1.15.3.51.3.7.1.2), it will pop error message - "Agent returned wrong syntax for ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanQueryInterval.4094. Expected syntax of ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanQueryInterval.4094 to be INTEGER, not Gauge".

80. [MIB-zyxelMldSnoopingProxy] When using SilverCreek to test the zyMldSnoopingProxyDownstreamVlanMaxResponseTime (OID: 1.3.6.1.4.1.890.1.15.3.51.3.7.1.3), it will pop error message - "Agent returned wrong syntax for ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanMaxResponseTime.4094. Expected syntax of ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanMaxResponseTime.4094 to be INTEGER, not Gauge".
81. [MIB-zyxelMldSnoopingProxy] When using SilverCreek to test the zyMldSnoopingProxyDownstreamVlanPortLeaveTimeout (OID: 1.3.6.1.4.1.890.1.15.3.51.3.8.1.3), it will pop error message - "Agent returned wrong syntax for ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanPortLeaveTimeout.4094.1. Expected syntax of ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanPortLeaveTimeout.4094.1 to be INTEGER, not Gauge".
82. [MIB-zyxelMldSnoopingProxy] When using SilverCreek to test the zyMldSnoopingProxyDownstreamVlanPortFastLeaveTimeout (OID: 1.3.6.1.4.1.890.1.15.3.51.3.8.1.4), it will pop error message - "Agent returned wrong syntax for ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanPortFastLeaveTimeout.4094.1. Expected syntax of ZYXEL-MLD-SNOOPING-PROXY-MIB:zyMldSnoopingProxyDownstreamVlanPortFastLeaveTimeout.4094.1 to be INTEGER, not Gauge".
83. [MIB-zyxelMldSnoopingProxy] The zyMldSnoopingProxyDownstreamVlanPortTable (OID: 1.3.6.1.4.1.890.1.15.3.51.3.8) table value can't set to Port28.
84. [ARP Inspection] The arp inspection didn't port-moving.
85. [802.1x] In 802.1x, after system reboot and backup/restore configuration, device could not authenticated successfully in TLS.
86. [Guest VLAN] In Multi-host mode, when PC authenticated fail, the MAC should be registered with guest VLAN vid.
87. [Green Ethernet] When enabled port green Ethernet, PC will link down/link up via CLI.
88. [Clone] When copy configuration to 10G port (49-52), CLI pop error message.
89. [MIB-zyxelMstp] The zyMstpInfoInstancePortPathCost (OID: 1.3.6.1.4.1.890.1.15.3.53.2.5.1.2) access type is "read-only", but it can be set via SNMPc or MIB Browser
90. [MIB] When using SilverCreek to test the privateMIB, CLI will pop error message - "ERROR: mgmt_port_receive: Receive error code 7. Packet dropped(Len 118),MGMT port rx error: -1" but only occurs once.
91. [MIB-zyxelMvr] When creating the zyMvrRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.55.1.2.1.5) rules from 4 (createAndGo) --> 2 (notInService) --> 6 (destroy), the rule will be deleted fail and the MVR VLAN will become Static VLAN setting in running-config.
92. [MIB-zyxelMvr] The zyMvrGroupStartIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.55.1.5.1.3) and zyMvrGroupEndIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.55.1.5.1.5) can't be set via SNMPc or MIB Browser.
93. [MIB-zyxelPolicyRoute] The zyPolicyRouteMaxNumberOfProfiles (OID: 1.3.6.1.4.1.890.1.15.3.60.1.1) and zyPolicyRouteMaxNumberOfRules (OID: 1.3.6.1.4.1.890.1.15.3.60.1.3) should be 64, not 128.
94. [MIB-zyxelPort] The zyPortFlowControlState (OID: 1.3.6.1.4.1.890.1.15.3.61.1.1.1.2) can't be disabled via SNMPc or MIB Browser.
95. [MIB-zyxelPort] The zyPortIntrusionLockState (OID: 1.3.6.1.4.1.890.1.15.3.61.1.1.1.4) can't be set via SNMPc or MIB Browser.
96. [Trap Group] The option of Intrusionlock should be included in the snmp setting
97. [Trap Group] The option of autonegotiation should be included in the SNMP setting
98. [MIB-zyxelPppoe] The zyPppoelaVlanVid (OID: 1.3.6.1.4.1.890.1.15.3.67.1.9.1.1) access-type should be "not-accessible", not "read-only".
99. [MIB-zyxelPppoe] The zyPppoelaPortVlanVid (OID: 1.3.6.1.4.1.890.1.15.3.67.1.11.1.1) access-type should be "not-accessible", not "read-only".

100. [MIB-zyxelPrivateVlan] The zyPrivateVlanAssociatedPrimaryVid (OID: 1.3.6.1.4.1.890.1.15.3.68.1.1.1.2) can't be set via SNMPc or MIB Browser.
101. [MIB-zyxelPrivateVlan] When using SilverCreek to test the zyPrivateVlanAssociatedPrimaryVid (OID: 1.3.6.1.4.1.890.1.15.3.68.1.1.1.2), it will pop error message - "Agent returned out of range integer value 0 is outside the range of (1..4096) for ZYXEL-PRIVATE-VLAN-MIB:zyPrivateVlanAssociatedPrimaryVid.4094".
102. [MIB-zyxelProtocolBasedVlan] The zyProtocolBasedVlanMaxNumberOfVlans (OID: 1.3.6.1.4.1.890.1.15.3.69.1.1) value shows error. It should be Port No * 8. (XGS3700-48HP --> 416. GS3700-24HP --> 224).
103. [IPv6] When modify link-local address from automatically generate (enable ipv6) to static configure and ping the same domain ipv6 address, the icmp request will carry automatically configure link- local address, not static configure link-local address.
104. [IPv6] Use static global ipv6 address to ping the same domain ipv6 address, ping will be ok. But, remove static global ipv6 address, ping still be ok.
105. [IPv6] Use static global ipv6 address with eui-64 to ping the same domain ipv6 address, ping will be ok. But, remove static global ipv6 address with eui-64, ping still be ok.
106. [MAC Authentication] set name prefix then do mac authentication, check authentication mac should not be "static"
107. [MAC Authentication] Verify mac authentication + port security, after disable port-security, DUT can't forward any traffic.
108. [MIB-zyxelRadius] When setting the zyRadiusAuthenticationServerIpAddr (OID: 1.3.6.1.4.1.890.1.15.3.71.1.1.3.1.2) to invalid value, it should pop error message.
109. [MIB-zyxelRadius] When setting the zyRadiusAccountingServerIpAddr (OID: 1.3.6.1.4.1.890.1.15.3.71.1.2.2.1.2) to invalid value, it should pop error message.
110. [Guest VLAN] when show port-access-authenticator <port>, Supplicant MAC format error
111. [IPv6] In default ns-interval, ping non-existent ipv6 address, it should only send 3 NS packets.
112. [MIB-zyxelRemotePortMirror] The zyRemotePortMirrorMaxNumberOfVlans (OID: 1.3.6.1.4.1.890.1.15.3.73.1.1) shows value = 4094. but DUT only can create 5 rules.
113. [MIB-zyxelRemotePortMirror] When using SilverCreek to create max zyRemotePortMirrorRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.73.1.2.1.9) rules, it will cause DUT can't erase RMirror setting via CLI.
114. [MIB-zyxelRip] DUT doesn't support the zyxelRip (OID: 1.3.6.1.4.1.890.1.15.3.74) function, please remove its setting.
115. [MIB-zyxelSflow] The zySflowMaxNumberOfPortCollectors (OID: 1.3.6.1.4.1.890.1.15.3.75.1.5) should be 28 for GS3700-24HP, not 52.
116. [MIB-zyxelSflow] When using SilverCreek to test the zySflowCollectorUdpPort (OID: 1.3.6.1.4.1.890.1.15.3.75.1.3.1.3), it will pop error message - "Agent returned wrong syntax for ZYXEL-SFLOW-MIB:zySflowCollectorUdpPort.1.4.10.31.9.21. Expected syntax of ZYXEL-SFLOW-MIB:zySflowCollectorUdpPort.1.4.10.31.9.21 to be INTEGER, not Gauge".
117. [MIB-zyxelSflow] Using "Get" way to get the zyxelSflowPortCollectorTable (OID: 1.3.6.1.4.1.890.1.15.3.75.1.6) will fail, but using "Next-Get" way is OK.
118. [MAC authentication] send wire-speed unknow packets to authenticator port then do mac flush, packet should not flooding to other port.
119. [MIB-zyxelSnmp] The zySnmpVersion (OID: 1.3.6.1.4.1.890.1.15.3.76.1.6) can't be set via SNMPc or MIB Browser.
120. [MIB-zyxelSnmp] The zySnmpTrapDestinationUdpPort (OID: 1.3.6.1.4.1.890.1.15.3.76.1.5.1.2) can't be set via SNMPc or MIB Browser.
121. [MIB-zyxelSnmp] The zySnmpTrapDestinationVersion (OID: 1.3.6.1.4.1.890.1.15.3.76.1.5.1.3) can't be set to 0 (v1) or 2 (v3) via SNMPc or MIB Browser.
122. [MIB-zyxelSnmp] The zySnmpTrapDestinationUserName (OID: 1.3.6.1.4.1.890.1.15.3.76.1.5.1.4) can't be set via SNMPc or MIB Browser.
123. [MIB-zyxelSnmp] The zySnmpUserSecurityLevel (OID: 1.3.6.1.4.1.890.1.15.3.76.1.7.1.2), zySnmpUserAuthenticationProtocol (OID: 1.3.6.1.4.1.890.1.15.3.76.1.7.1.3) and zySnmpUserPrivacyProtocol (OID: 1.3.6.1.4.1.890.1.15.3.76.1.7.1.4) access type is "read-write", but they can't be set via SNMPc or MIB Browser.

124. [IPv6] In ipv6 prefix, prefix in VLAN 1 should be consistent with prefix in VLAN 2.
125. [MIB-zyxelTrtcM] The zyTrtcMPortDscpProfile (OID: 1.3.6.1.4.1.890.1.15.3.85.1.3.1.4) can't set any value via SNMPc or MIB Browser.
126. [MIB-zyxelSubnetBasedVlan] The zySubnetBasedVlanMaxNumberOfVlans (OID: 1.3.6.1.4.1.890.1.15.3.80.1.3) access-type should be "read-only", not "read-write".
127. [Firmware Upgrade] Ping device with ipv6 address will time out during firmware upgrade.
128. [MIB-zyxelTacacs] The zyTacacsAuthenticationServerIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.83.1.1.3.1.2) can't set any value via SNMPc or MIB Browser.
129. [MIB-zyxelTacacs] The zyTacacsAccountingServerIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.83.1.2.2.1.2) can't set any value via SNMPc or MIB Browser.
130. [WEB] The all port "Burst interval (seconds)" didn't work for ARP inspection port configuration via WEB.
131. [IPv6] Enable ipv6 ND RA suppress, it should have "ND router advertisements suppressed" information in show ipv6 VLAN.
132. [MIB-zyxelTransceiver] When using SilverCreek to test the zyxeITransceiverDdmiTable (OID: 1.3.6.1.4.1.890.1.15.3.84.1.2), it will pop error message - "Agent returned malformed instance ID for ZYXEL-TRANSCEIVER-MIB:zyTransceiverDdmiDescription.25.5. Still has more subidentifiers unmatched after ZYXEL-TRANSCEIVER-MIB:dot1dBasePort index. The number of instance identifiers in the response OID does not match the index objects defined for the table entry".
133. [MIB-zyxelTrtcM]The zyTrtcMMaxNumberOfDscpProfiles (OID: 1.3.6.1.4.1.890.1.15.3.85.1.4) for GS3700-24HP should be "29", not "53".
134. [LACP] testing interpretability on DLink and 3700-48HP, Synchronized Ports for device 3700-48 HP GUI should not be empty
135. [MIB-zyxelVlan] The zyVlanIngressCheckState (OID: 1.3.6.1.4.1.890.1.15.3.86.1.2) access-type should be "notaccessible", not "read-write". And the table can be set via SNMPc.
136. [MIB-zyxelVlanCounter] The zyVlanCounterPorts (OID: 1.3.6.1.4.1.890.1.15.3.87.1.1.1.3) access-type is "read-write", but can't be set via SNMPc or MIB Browser.
137. [MIB-zyxelVlanMapping]When creating the max zyVlanMappingRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.88.1.4.1.6) to one Port via MIB Browser, finding the Port value will show "0".
138. [MIB-zyxelVlanStack] The zyVlanStackPortPriority (OID: 1.3.6.1.4.1.890.1.15.3.89.1.2.1.3) can't be set via SNMPc or MIB Browser.
139. [MIB-zyxelVrrp] The zyVrrpSecondaryVirtualIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.91.1.2.1.8) can't set to default value.
140. [MIB-zyxelMacPinning] The zyMacPinningPortState (OID: 1.3.6.1.4.1.890.1.15.3.92.1.2.1.1) selected items should be "enabled/disabled", not "inactivated/activated".
141. [MIB-zyxelGreenEthernet] The zyGreenEthernetShortReachPortState (OID: 1.3.6.1.4.1.890.1.15.3.93.1.4.1.3) can't be set via SNMPc or MIB Browser.
142. [Static Route] Send port-pair L3 traffic via static route, only one direction can forward.
143. [POE] PoE port status (link and PoE status) should be correct when PD (NWA1300 NJ) connected into the port
144. [Private VLAN] A private VLAN port can't be assigned to static VLAN.
145. [System] This CLI pop error message when restore IPSG configuration.
146. [MIB-ip]When setting the IPv6 in interface VLAN 1, the ipv6RouterAdvertIfIndex (OID: 1.3.6.1.2.1.4.39.1.1) will show "2".
147. [TRTCM] The trTCM rate is abnormal when 100M to 10M port.
148. [MIB-pingMIB] The pingCtlTargetAddress (OID:1.3.6.1.2.1.80.1.2.1.4) and pingCtlSourceAddress (OID: 1.3.6.1.2.1.80.1.2.1.19) can't be set via SNMPc or MIB Browser.
149. [MIB-pingMIB] The pingCtlTargetAddressType (OID: 1.3.6.1.2.1.80.1.2.1.3) and pingCtlSourceAddressType (OID: 1.3.6.1.2.1.80.1.2.1.18) value should show "1(ipv4), not "0(unknown)".
150. [Web Page] In XGS3700-48HP mode, Web display XGS4700 in left window.
151. [Broadcast Storm] Enable Broadcast storm to maximum value 33554431, then erase running, CLI will pop error message.
152. [VRRP & Policy Route] Policy route doesn't work when use the VRRP It is a ITS issue.

153. [Mirror] In mirror test, the learned packet will broadcast to other ports. The behavior is abnormal. Execute MAC-Flush, DUT will be ok.
154. [Mirror] Non Monitor port can receive the traffic in the mirrored port.
155. [IPv6 ND] Send 8K ND packets into Device then check Neighbor table in web page, device will hang up or crash.
156. [Web] The ARP table should add "Age" time via Web. Web should be the same CLI.
157. [Web - Diagnostic] The system log should be display 1000 entries via Web. Web should be the same CLI.
158. [Rmirror] The reflector port set fails when create one entry.
159. [Web - Rmirror] The reflector port set fails and display abnormal when create one entry.
160. [RMirror] The error message is not intuition when set reflector port fails.
161. [CFM] In local stack table, it will have one redundant entry in port 29. The issue seems to only occurs in 24HP, not 48HP.
162. [Private VLAN] In web page, remove default VLAN 1 and add primary VLAN, isolate VLAN and community VLAN, CLI could not synchronous with Web page.
163. [MIB-IEEE] When deleting the dot1agCfmMepDbTable (OID: 1.3.111.2.802.1.1.8.1.7.3) value, the dot1agCfmMepDbChassisIdSubtype (OID: 1.3.111.2.802.1.1.8.1.7.3.1.8) will show "0" and SilverCreek will show "Agent returned out of range enumeration 0 is not a known value for IEEE8021-CFM-MIB:dot1agCfmMepDbChassisIdSubtype.1.1.1.2" error message.
164. [Web] Set DHCP Relay - Remoter DHCP Server 3 fail after set the IP Address via Web.
165. [PoE Trap] Disable per port PoE trap, DUT still sends PSE port on/off trap when PD connect to DUT.
166. [Service Access Control] When change https service port value via Web, then show running-configuration didn't display configuration via CLI.
167. [Service Access Control] When change SSH service port value via Web, then show running-configuration didn't display configuration via CLI.
168. [Service Access Control] The telnet and ftp service port setting didn't clear after erase running-configuration.
169. [DHCP Snooping] The DHCP snooping profile setting didn't clear after erase running-configuration.
170. [Flow Control] Flow control could not load balance cross unit
171. [DHCP Server] When release 253 client IP address, it could not release all client IP, and the timer in DHCP server table will be infinite. (Release rate: 5 packet /s)
172. [DHCP Server] After request 253 and release 253 client IP, it could not get 253 dynamic IP again.
173. [RMON] etherHistorycontrol utilization was incorrect (using Gb port)
174. [MIB-zyxellpsg] When testing the zyArpFreezeVlan (OID: 1.3.6.1.4.1.890.1.15.3.33.1.3), it will show "Add [mac=00:19:cb:f8:6d:ca IP=192.168.1.1 vid=95 port=0] to IPSG static binding table." message but PC Port connect to VLAN 1.
175. [IP] In out- band, user can overwrite IP address with 192.168.0.1/16. But, in in-band, user can't overwrite IP address with 192.168.1.1/16.
176. [Static ARP] in the web, the last index number for ARP should be 256, not 0
177. [MIB] When setting the port list format to 0x80 to related items, sometimes MIB will return invalid value.
178. [DHCP Server] In backup/restore configuration file or reboot device, sometimes, it could not clear client IP entry in DHCP server status after user release client IP. Besides, the timer in client IP entry will be infinite.
179. [DHCPv6 Relay] DUT can't transfer DHCP Solicit into Relay_Forw through DHCP Relay Agent.
180. [IPv6]Send ICMPv6 neighbor advertisement packets (SA: 00:19:cb:01:01:01) into device, and enable ipv6, sometimes, device only display as "preferred", not "duplicated".
181. [Service Access Control] The warning message should be write timeout range about telnet timeout value via CLI and Web.
182. [Service Access Control] The warning message should be write timeout range about FTP timeout value via CLI and Web.
183. [Service Access Control] The warning message should be write timeout range about Http timeout value via CLI and Web.
184. [Service Access Control] The warning message should be write timeout range about Console timeout value via CLI and Web.

185. DUT can not be reboot (model: GS3700-48)
186. [SNMP-dot1qVlan] When the dot1qVlanStaticRowStatus (OID: 1.3.6.1.2.1.17.7.1.4.3.1.5) is 2 (notInService) and deleting via MIB, it will fail.
187. [MIB-traceRouteMIB] When using SilverCreek to test traceRouteMIB (OID: 1.3.6.1.2.1.81), DUT will hang up.
188. [MIB-CFM] The dot1agCfmMepDbTable (OID: 1.3.111.2.802.1.1.8.1.7.3) index is error.
189. [SNMP-zyxellpv6] When enabling the IPv6 function, the zylpv6LinkLocalIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.34.1.5.1.5) should show default value. (CLI/Web will show)
190. [syslog] when testing on enable/disable switch type trap-ping, DUT was crash and automatically restarted itself
191. [Static Route]: Create maximum static route entry (64) and erase running, CLI will pop error message.
192. [Static Route]: Create maximum static route entry (64), Web page only displays as 50 static route entry.
193. [Hostname] created a hostname with 64 characters, but it only display 20 characters when entered; for the hostname in CLI, it should display full name which user typed in.
194. [CFM] When MEP belongs MA whose primary VLAN is 100, the CC packets will carry "primary VLAN 1" field. the behavior is abnormal.
195. [LLDP] The LLDP TX org-specific-tlv dot3 mac-phy is wrong when speed-duplex set 100-full.
196. [Static Arp] create a different IP and port number with duplicated MAC; static ARP should be able to overwrite Dynamic ARP
197. [Errdisable] The port receives over rate-limitation, then other port behavior didn't work (ping/BPDU/IGMP) in rate-limit mode.
198. [Static ARP] it should not be creatable when there were same domain but in different VLAN
199. [Port Security] In port security, modify VLAN address limit, CPU MAC will be count in address limit.
200. [LLDP-MED] create an entry for location and building, name ZYXEL; few words which I did not typed in were display when show running-config (ex: ZYXELHU)
201. [LACP] when LACP sync fail (one is active, the other is inactive), LACP port status should be blocking not forwarding
202. [MIB-IP] When setting the ipNetToMediaPhysAddress (OID: 1.3.6.1.2.1.4.22.1.2) to invalid value, it should pop error message.
203. [Private VLAN] In web page, it could not modify promiscuous port tagged/untagged setting.
204. [LACP] Dynamic VLAN should be removed after enable static trunk and stopped GVRP packets
205. [Private VLAN] After enable trunk interface and remove fixed member, it still could not configure private VLAN.
206. [MIB-ip] The ipv6RouterAdvertReachableTime (OID: 1.3.6.1.2.1.4.39.1.8) default value is different to CLI and setting the value to 30000 will return "0".
207. [MIB-ip] When using SilverCreek to test the ipv6RouterAdvertReachableTime (OID: 1.3.6.1.2.1.4.39.1.8), it will pop "Agent returned out of range integer value 2147483647 is outside the range of (0..3600000) for IP-MIB:ipv6RouterAdvertReachableTime.30001" error message.
208. [MIB-ip] The ipv6RouterAdvertRetransmitTime (OID: 1.3.6.1.2.1.4.39.1.9) default value is different to CLI and setting the value to 1000 will return "0".
209. [Private VLAN] After modify isolation VLAN member or community VLAN member via web page, secondary VLAN (isolate VLAN and community VLAN) will disappear in show private VLAN
210. [LED] The reflector port 's led will bright different color.
211. [MIB-transmission] The dot3StatsAlignmentErrors (OID: 1.3.6.1.2.1.10.7.2.1.2) counter can't be added.
212. [Private VLAN] Send Query message into primary VLAN, it should transfer into isolate tagged in isolate VLAN, and community tagged in community VLAN.
213. [MIB-transmission] The dot3StatsDeferredTransmissions (OID: 1.3.6.1.2.1.10.7.2.1.7) counter can't be added.

214. [syslog] set device over night, found temperature was out of its limit range (abnormal) when show logging (Dec 24 23:43:43 EM system: Board_1 temperature value 192 is out of its limit range)
215. [Private VLAN] In show VLAN counter, community VLAN and isolated VLAN also will count into primary VLAN. (Cross Unit issue)
216. [syslog] after system voltage value was back from error to normal, a recovered log should be display when show logging (ex: System voltage has recovered to normal state)
217. [MIB-RMON] When setting the historyControlBucketsRequested (OID: 1.3.6.1.2.1.16.2.1.1.3) to 65535, the historyControlBucketsGranted (OID: 1.3.6.1.2.1.16.2.1.1.4) will show "200", not "65535".
218. [IPv6 Static Route]When remove ipv6 default gateway, the default route in show ipv6 route also should be removed.
219. [MIB-dot1qTp] The dot1qFdbDynamicCount (OID: 1.3.6.1.2.1.17.7.1.2.1.1.2) can't be added.
220. [IPv6] Enable ipv6 and ipv6 autoconfig in interface VLAN without static VLAN setting, after write memory and reboot, CLI will pop error messages. CLI and Web has the same symptom.
221. [DHCPv6 Relay] Merge Maximum DHCPv6 Relay setting, Web page will have abnormal in DHCPv6 relay status.
222. [MIB-pingMIB] SNMPc (version 8.0) can't set IPv6 format to pingCtlTargetAddress (OID: 1.3.6.1.2.1.80.1.2.1.4) and pingCtlSourceAddress (OID: 1.3.6.1.2.1.80.1.2.1.19), but SilverCreek can.
223. [SNMP-traceRouteMIB] The traceRouteMIB (OID: 1.3.6.1.2.1.81) can't set IPv6 format address and IPv4 format address is different to pingMIB.
224. [Syslog] Due to the radius server IP problem (set wrong/inexistence radius server IP),SNMPc should send trap(s) "RADIUS server not reachable" for each time user try to re-logging through Radius server (not only display the trap once)
225. [ICMPv6] Set ICMPv6 Rate Limit Error Interval to 2147483647 (maximum), show ipv6 will display as 214748364 in CLI, ipv6 interface status will display as 2147483640 in Web page.
226. [Policy Route] When create policy route, then subnet A ping access IP_B fails.
227. [DHCPv6 Client] In DHCPv6 Client, the information refresh minimum should have warning message when set over maximum value. CLI and Web has the same symptom.
228. [LLDP-MED] the format for LLDP-med should be correspond to each title when show LLDP configuration interface port-channel 1
229. [LLDP-med] under Capabilities, device type: Network Vonnnectivity should be Network Connectivity (word spell incorrect) when show LLDP info local interface port-channel 1
230. [LLDP-med] after type in the command for LLDP med (LLDP med location coordinate latitude north 24.0 longitude east 120.0 altitude meters 13 datum WGS84), an unKnown message pops up "Invalid coordinate LCI: Unknown option meters"; but it works for the word" meter"
231. [MIB] Using SNMPc to set lldpConfigManAddrPortsTxEnable (OID: 1.0.8802.1.1.2.1.1.7.1.1) to 0x80 will make unexpected ports to be set--> 0x80:00:00:80:40:EA:B0:00. (Please check all MIB related settings)
232. [IPv6]In Interface Setup web page, it could not have correct "delete" and "cancel" item.
233. [IPv6]In IPv6 Global Address Setup web page, it could not have correct "delete" and "cancel" item.
234. [IPv6]In Ipv6 Prefix Setup web page, some items "delete" check box will be enable automatically.
235. [IPv6]In Ipv6 Neighbor Setup web page, it could not have correct "delete" and "cancel" item.
236. [IPv6 Static Route]In Ipv6 static route web page, it could not have correct "delete" and "cancel" item.
237. [IPv6 Static Route]In Ipv6 static route web page, it could not have the related next hop information.
238. [LLDP-med] Few unkown words" <NULL> @({CHU <NULL> Fa1/0/4" display under Location when show LLDP info remote interface port-channel
239. [Rmirror] Create Rmirror ruler, it will create the related VLAN automatically. But, remove Rmirror ruler, it could not remove the related VLAN automatically.

240. [SNMP-zyxelArp] Using "Get" way to get zyStaticArpRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.11.1.4.1.5) will fail, but using "Next-Get" is OK.
241. [MIB-zyxelArp] When using SilverCreek to test the zyArpPort (OID: 1.3.6.1.4.1.890.1.15.3.11.2.1.1.4), it will show "Agent returned out of range enumeration 1 is not a known value for ZYXEL-ARP-MIB:zyArpPort.192.168.1.10.1" error message.
242. [Port interface] Linked port was sync slow (about 5 seconds) when unplug/plug into the DUT (link up and down twice before linked success)
243. [LLDP-med] when show either LLDP info local/remote port, the Extended TLV Info should display as LLDP-MED OUI not 802.1 OUI
244. [DHCP Relay] In smart relay mode, when management VLAN and client VLAN are different, some model carry client VLAN IP as source IP (3700 Series) , some model (2200 Series) carry management VLAN IP as source IP. Which one is correct
245. [Arp Inspection] The log-buffer entries display abnormal in ARP inspection log-buffer function.
246. [SNMP-zyxellpv6] Setting the invalid value to zylpv6DefaultGateway (OID: 1.3.6.1.4.1.890.1.15.3.34.1.5.1.7) will make the original value become empty.
247. [SNMP-zyxellpv6] The rule - zylpv6GlobalAddressRowStatus.31023.2.16.16.35.0.0.0.0.0.0.0.0.0.0.0.0.1.64.0 (OID: 1.3.6.1.4.1.890.1.15.3.34.1.6.1.7) can't be created via MIB, but CLI is OK.
248. [MIB-zyxellpv6Ndp] The zyNdpPrefixRowStatus.31023.2.16.1023.1.0.0.0.0.0.0.0.0.0.0.0.0.1.64 and zyNdpPrefixRowStatus.32047.2.16.2047.1.0.0.0.0.0.0.0.0.0.0.0.0.1.64 can't be created via MIB Browser.
249. [IPv6 Neighbor Setup] Create maximum ipv6 neighbor setup, it could not delete the last entry via web page. It will pop error message. Interface id range error. CLI can delete the last entry directly.
250. [syslog] ping test to correct IP, it should display IN ping: ping test to the IP "completed" (not "failed") when show logging
251. [port move] connect two devices with port1 and port2, ping passed; after port moved (connected to port 3), ping failed. Check on the mac table, connected port (same mac) was still display the previous port which was port1. It should be immediately change to the current connecting port (port3) after port moves.
252. [SNMP-zyxelMvr] The zyMvrGroupStartIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.55.1.5.1.3) and zyMvrGroupEndIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.55.1.5.1.5) can't be set via SNMPc, but SilverCreek is OK.
253. [MIB-zyxelSflow] The over max zySflowPortCollectorRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.75.1.6.1.5) rules can be created.
254. [MIB-zyxelSnmp] The zySnmpTrapSysGroup (OID: 1.3.6.1.4.1.890.1.15.3.76.1.8.1.1) lacks "dyinggasp" selected item.
255. [MIB-zyxelSnmp] The zySnmpTrapAAAGroup (OID: 1.3.6.1.4.1.890.1.15.3.76.1.8.1.3) lacks "authorization" selected item.
256. [MIB-zyxelTacacs] When setting the zyTacacsAuthenticationServerIpAddress (OID = 1.3.6.1.4.1.890.1.15.3.83.1.1.3.1.2) and zyTacacsAccountingServerIpAddress (OID = 1.3.6.1.4.1.890.1.15.3.83.1.2.2.1.2) to invalid value, it should pop error message.
257. [MIB-zyxellpv6StaticRoute]It should be denied to set the zylpv6StaticRouteNextHopIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.37.1.2.1.5) to unexist IP domain.
258. [Policy Route] When create policy route rule without profile name, the behavior is abnormal.
259. [RMirror] After set mirror port's direction on source switch via web, then use CLI to show running-config will abnormal.
260. [RMirror] Set mirror port direction fail via CLI.
261. [IPv6] Create maximum ipv6 neighbor setup (256) per VLAN, then enable ipv6 (256) per VLAN, CLI will pop error messages continuously.
262. [IPv6 Status] Restore the attachment file, the ipv6 status in last 1,2 is abnormal in web page.
263. [IPv6 Interface Setup] It can create 128 ipv6 interface VLAN. But, it only enable 64 ipv6 in interface VLAN. it will cause the remainder 64 ipv6 interface VLAN could not work.
264. [Rmirror] In web page, the default direction value in source switch should be "both", not "ingress".

265. [Rmirror] In web page, create Rmirror VLAN ruler without reflect port, show running will display mirror-port "" in Rmirror VLAN ruler.
266. [Rmirror] In web page, it must enable mirror port and direction, then work. But, in cli, it only configure mirror port direction directly. It make user confuse easily.
267. [MIB-zyxelMvr] The zyMvrGroupRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.55.1.5.1.6) can be created to over max rules via SNMPc.
268. [IPv6] In web page, create 128 interface VLAN, it can display 128 interface VLAN in IPv6 link-local address setup. But, it only can display 64 interface VLAN in IPv6 global address setup.
269. [IPv6] In web page, user can modify and delete the global address ruler. But, user only can modify the link-local address ruler. What is difference between global address and link-local address.
270. [IPv6 Static Route] Create maximum ipv6 static route, it could not display the correct delete and clear items.
271. [IPv6 Link-Local Address Setup] In IPv6 link-local address setup page, create 2 interface VLAN ruler, and click interface VLAN 2, the related parameter still keep interface VLAN 1 information.
272. [syslog] when out-band port link up/down, sent event/trap to both syslog and SNMP should be the same info. (in syslog displays GS3700 interface: port 1 link down; in SNMPc: interface 10000 link down trap)
273. [Rmirror] In DHCP snooping, the received DHCP discovery in connected port should be double tagged (Rmirror + DHCP DHCP-VLAN), not single tagged.
274. [IPv6] The suggestion value range of minimum Interval in IPv6 Router Discovery Setup should be 3~1350, not 3~1500 via Web.
275. [IPv6] Set Valid Lifetime value 9999999999 in IPv6 Prefix Setup, then value will change to 0 via Web.
276. [IPv6 Prefix Setup] In IPv6 prefix setup, create preferred lifetime is bigger than valid lifetime, web page will pop warning message. "Prefix lifetime must be exceed valid lifetime". The behavior is abnormal. Besides, the message information seems be wrong.
277. [IPv6 Neighbor Setup] In IPv6 neighbor setup page, create neighbor setup entry without the related interface VLAN, it could not directly delete the neighbor setup ruler. It will pop error message. Interface id range error.
278. [IPv6 Interface Setup] In IPv6 interface setup page, create 2 interface ruler, and click interface VLAN 2, the related parameter still keep the VLAN 1 information.
279. [Rmirror] In bandwidth control, the received rate in connected port should follow egress setting in egress port, not ingress port setting.
280. [IPv6] In ipv6 global address, create ipv6 address 5001::1/128 and enable eui-64 in web page, the ipv6 address in cli and web will be 5000::219:cbff:fe01:101/128. But, show running will display as ipv6 address ::/128 eui-64.
281. [Private VLAN] In show VLAN counter, sometimes, the received packets is not equal to the SMB send packets.
282. [MLD Filtering Profile] Create maximum MLD filtering profile, it will have 2 delete items on web page.
283. [Web] Set ipv6 link-local address and default gateway via Web, the DUT hang up.
284. [Rmirror] In VLAN stacking, mirror the access port and the direction is both, the ether type in connected port should be 8100, not 9100.
285. [RMirror] DUT Ping DUT sometimes fail via RMirror Connected port.
286. [MIB-zyxelSflow] The zyxelSflowPortCollectorTable (OID: 1.3.6.1.4.1.890.1.15.3.75.1.6) value can't be gotten via MIB Browser.
287. [DHCPv6 Client] In DHCPv6 Client, set information refresh minimum to 9999999999, it should have warning message when configure over the maximum value.
288. [Private VLAN] When the reserved port for show VLAN counter is link at 10M, the private VLAN in show counter will be abnormal. (the received rate is around 10M).
289. [MIB-IP] When using SilverCreek to test the ipNetToMediaTable (OID: 1.3.6.1.2.1.4.22), it will pop "Agent returned out of range index value 0 is out of the range (1..2147483647) for index IP-MIB:ipNetToMediaIndex of object IP-MIB:ipNetToMediaIndex.0.192.168.0.38" error message.
290. [static ARP] create a static ARP with different IP and port with duplicated MAC; static ARP overwrite dynamic success, but port didn't change to the one which just created when show mac

291. [MIB-zyxellpv6StaticRoute] When setting the zyIPv6StaticRouteNextHopIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.37.1.2.1.5) to unexist IP address, it will pop error message but the value can be set OK.
292. [Radius] When radius server only exists in server 2, device will send "Radius server 1 is unreachable" syslog. But, when radius server exists in server 1, device could not send "server 1 is reachable" syslog.
293. [MRSTP+LACP] The CLI display MRSTP status info behavior is wrong in MRSTP with LACP when unplug ports.
294. [CFM] After send LBM packets into device, device could not response with LBR. (it may be cc message timeout). It only occurs in 48 port device, not occurs in 24 port device.
295. [IPv6] word spelling incorrect (internal) when ping6 failed (in the default environment)
296. [IPv6] when ping6 failed (in the default environment), an error message occurred. GS3700# should be started at next new line; not right behind the error.
297. [DHCPv6 Relay] Create maximum dhcpv6 relay entry, and send dhcpv6 solicit packets, it could not transfer into dhcpv6 relay forward packets.
298. Device sometimes ping PC fail after restore running-config by FTP
299. [Restore] During show running, click backup the configuration file, CLI will pop error messages. "error! file_0_data !=0".
300. [Rmirror] In Private VLAN, mirror isolated port, the connected port should be double tagged (Rmirror VLAN+ isolate VLAN), not (Rmirror VLAN+ primary VLAN).
301. [Rmirror] In DHCP snooping, send DHCP offer packets, the received packet in connected port should be double tagged (Rmirror VLAN + DHCP snooping VLAN (egress tagged out)), not double tagged (DHCP DHCP-VLAN + Rmirror VLAN).
302. [IPv6 Static Route] In ipv6 static route, the prefix length only configure <= 64, not configure >64.
303. [IPv6 Static Route] It could not delete the last entry. Web page will pop error message. "Error, invalid ipv6 prefix".
304. [IPv6 Static Route] In IPv6 static route entry, show running (CLI) and ipv6 static router (Web) about VLAN information is inconsistent.
305. [Green Ethernet + Diagnostic] When enable global short reach and enable port short reach, do port test will cause DUT crash.
306. [ARP Table] Use Test Center to send 17k host into device port 1 (192.167.1.2 255.255.0.0 increment:17000), and check IP ARP table, device will hang up.
307. [MRSTP+LACP] The traffic didn't forward when unplug port on MRSTP+LACP.
308. [LLDP] The firmware date format is different from XGS-4728F.
309. [RMON] when type in command "rmon alarm alarmtable 1 variable sysMgmtCPUUsage.0 interval 1 sample-type absolute startup-alarm rising rising-thres", an error message pops up "Error: the variable is not exist"
310. [Rmirror] Send GVRP packets into mirrored port, the VLAN type should be dynamic type, not Rmirror type. After stopping the GVRP packets, the VLAN type will be dynamic.
311. [Clone] When port copy running-config need long time. And destination port link down/link up when cloning.
312. [IPv6] Create global ipv6 address "ipv6 address 2118:1111:1111:1111:1111:1111:1111:1111/8 eui-64" first, then set "no ipv6 address 2100::/8 eui-64" will fail.
313. [IPv6] Ping the non-existent ipv6 host, device will send 9 ns packets and 3 request time out. But, CLI will display "transmit 3 packets,...". It makes user confused easily.
314. [IPv6] After modify ns interval to 10 seconds, and ping the non-existent ipv6 host, it should send 9 ns packets, not 3 ns packets.
315. [ARP] Use SMB to simulate 128 host, device ping the simulated host via trunk interface, ping will time out. After unplug and plug-in the cable, ping will be ok.
316. [IPv6 Static Route] In maximum ipv6 static route, after backup and restore the configure file or reboot device, the last L3 ipv6 traffic could not forward to the next hop. After a period of time (>30 seconds), the last L3 ipv6 traffic can forward to the next hop.
317. [IP Load Sharing] Create static route with default route, and use no IP route to remove the static route entry, it could not remove it successfully.
318. [IP Load Sharing] Create static route with default route, and default gateway is the same as next hop, after remove the default gateway, it still should keep the related static route entry (next hop=gateway).

- 319. [IP Load Sharing] In sip & dip criteria mode, the L3 traffic (sip: fixed, dip: increment) only forward to one port, could not load balance. The issue only occurs in 48 port device.
- 320. [CFM] In spanning tree topology, execute linktrace from device 3 to device 1 (eth cfm link re 7003 MEP 1003 ma 3 md 1), the " chassis-id" field should be N/A, not empty or scramble (eth CFM link re 7003 MEP 1003 ma 3 md 1).
- 321. [CFM] In spanning topology, execute linktrace from device 3 into device 4 (eth CFM link re 7001 MEP 1001 ma 7 md 3), linktrace will be fail. After modify MEP 7001 direction from down to up , it will be ok. The root cause may be spanning blocking port. It seems that spanning blocking port will effect MEP direction setting.
- 322. [MAC-Pinning] When enable mac pinning + trunking ports already learned {MAC A, VLAN A}, then the other ports (disable mac pinning) shouldn't learn {MAC A, VLAN A}
- 323. [Upgrade firmware] After upgrade firmware via web page, then CLI login fail during printing ".".
- 324. [IP Load Sharing] It only create 8 static route entry. When create over 8 entry, CLI will pop error messages.
- 325. [IPv6 Interface VLAN] Create over 64 ipv6 interface VLAN, it should pop error message. Error: IPv6 iface number exceeds maximum, not Error: Static VLAN number exceeds maximum!.
- 326. [MSTP] Run MSTP MIB script, CLI will pop some error messages. RSTP flush dynamic address on port-44 fail.
- 327. [IPv6 Interface VLAN] Create 64 interface VLAN and enter the existent interface VLAN, CLI will pop error messages. Error: Static VLAN number exceeds maximum!.
- 328. CFM] Run CFM MIB script, CLI will pop error messages. dot1agPduIncoming: insert queue fail
- 329. [MIB-zyxelMldSnoopingProxy] When creating max zyMldSnoopingProxyVlanRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.51.3.5.1.2) rules, the max rules can't be deleted via MIB Browser.
- 330. [IPv6 Neighbor] It only create 64 interface VLAN. But, it can create 256 neighbor entry with different VLAN 1~256. it will cause some useless neighbor entry.
- 331. [Syslog] Autonegotiation sync failed: a log message "WA interface: port 2 link speed and duplex mode autonegotiation has failed" should be shown when show logging
- 332. [MIB-zyxelIpv6StaticRoute] When setting the zyIpv6StaticRouteNextHopIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.37.1.2.1.5) to default value, it will pop error message but the value should be able to set OK.
- 333. [IPv6 Prefix] In ipv6 prefix, prefix lifetime could not smaller than valid lifetime.
- 334. [DHCPv6 Client] After reboot device, device could not get the dynamic ipv6 address again. It only occurs in 48 port device, not 24 port device.
- 335. [Port Setup] When all port inactive/active, CLI pop error message.
- 336. [LACP+MRSTP+L2PT] When enable lacp+mrstp+l2pt, the LACP sync fails.
- 337. [IPSG] The illegal IP with Same MAC's IP could not flood.
- 338. [Diagnostic] The inactive port do cable diagnostic should not display cable length.
- 339. [MIB-dot3] The Port Index of the dot3StatsFrameTooLongs (OID: 1.3.6.1.2.1.10.7.2.1.13) counter is error.
- 340. [Static Route] Send port-pair L3 traffic to the non-existent next hop, after system reboot, the port-pair L3 traffic still can forward each other.
- 341. [MIB-zyxelMldSnoopingProxy] It should pop error message when setting the zyMldSnoopingProxyVlanRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.51.3.5.1.2) to invalid value (ex: 123)
- 342. [System] Run some script and remove the connected cable, CLI will pop some error messages. Invalid Port ID !0x00000034
- 343. [MIB-traceRouteMIB] When SilverCreek to test the traceRouteMIB (OID: 1.3.6.1.2.1.81.1), CLI will pop error message.
- 344. [Port Security] Enable port security address limit to 16000, send 33000 increment source MAC, device will learn 16003 MAC. It should be 16001 MAC (include CPU).
- 345. [MLD Filtering Profile] When create MLD filtering profile over maximum in web page or MIB, it could not pop error messages. CLI will be ok.
- 346. [Green Ethernet] a message pops up "Port ge23: bcm_port_info_get failed: Operation failed" after erase configuration
- 347. [VLAN Stacking] in CLI, columns (SPVID and priority) were not in the right format.

- 348. [VLAN_Web] Try to display index 1 (Advanced Application >VLAN > index 1), web disconnected
- 349. [VRRP] VRRP can't response ping in different routing domain.
- 350. [Rmirror] When monitor-port in local mirror and connected-port in Rmirror get conflict, then erase running, the Rmirror still could not work correctly. (In egress direction, the connected port should be double tagged packets, not original packets).
- 351. [Rmirror] Configure Rmirror VLAN and Static VLAN, CLI will pop error messages. ERROR: PORT 1 has been associated with a VLAN! The behavior is abnormal.
- 352. [Help] the format for Help was incorrect
- 353. [MIB-zyxelRemotePortMirror] When running SilverCreek scripts twice, then erase running configuration via CLI, the default configuration will be disappeared.
- 354. [Rmirror] After removing source reflector port, the setting is correct. Sometimes, the LED should be light off, not light on.
- 355. [Static Arp GUI] The word for the "Delet" button is misspelling, it should be "Delete".
- 356. [Clustering Management] In the help, the description for Cluster management should be Cluster management allows you ... not managementallows...
- 357. [SNMP] In help, Dyinggasp should be in a small letter "d" not capitalized
- 358. [Protocol-based VLAN] in help, the path for VID should be Advanced Application not Advanced Applications in the description column
- 359. [Bandwidth Control] in Help, there has an x-tra letter "T" after the definition of the bandwidth control
- 360. [Subnet-based VLAN] in help, the path for VID should be Advanced Application not Advanced Applications in the description column
- 361. [Port setup] it should be clear define / label for which models support 10G (Speed/Duplex) and Media Type column
- 362. [Rmirror] Enable connect port A and disable connect port A, port A will be Rmirror VLAN member. It will cause port A could not belong to reflector port.
- 363. [Rmirror] Enable and disable reflect port in different Rmirror VLAN will cause the behavior is abnormal
- 364. [Rmirror] Enable and disable reflect port in different Rmirror VLAN will cause the behavior is abnormal.
- 365. [DHCP Relay Option82 Profile] Create maximum circuit-id (64) string and remote-id (64) string in web page, CLI only display 32 circuit-id string and 32 remote-id string.
- 366. [Static Route] Create IP address (A) in VLAN interface, then create static route with next hop = IP address (A), then create IP address (A) in VLAN interface again, CLI will pop error messages.
- 367. [Flow Control]After backup and restore configuration file or system reboot, flow control could not work correctly cross unit.
- 368. [MLD] In web page, configure query interval, query max response time in downstream, and query interval, query max response time, robustness variable, last member query interval in upstream, it will inconsistent between CLI (show ipv6 MLD snooping VLAN) and Web. But, show running is correct.
- 369. [10G module] Enable 10G module in DAC10G mode, it could not be flushed successfully after erase running.
- 370. [POE] Configure maximum power in PWR, show PWR could not display the maximum power state without connecting PD.
- 371. [POE] When user-defined PoE maximum power is less than PD required power, the alarm LED will light on.
- 372. [MIB-zyxellpv6PathMtu] When using MIB Browser to get the zyxellpv6PathMtu (OID: 1.3.6.1.4.1.890.1.15.3.36) value continuously, sometimes it will pop error message - "Error:SNMP Unknown Object Identifier".
- 373. [Diagnostic] The cable diagnostic display wrong information while port inactive by errdisabe/loopguard/intrusion.
- 374. [DHCP Snooping] the string length for both circuit-id and remote-id in Help and GUI are inconsistent (GUI, both circuit-id and remote-id can be set up to 64 characters; Help, both circuit-id and remote-id can be set up to 32 characters)
- 375. [Static Arp] when static ARP and VLAN 1's IP were duplicated which caused erase running-config command does not work at this time
- 376. [SNMP Group] Create SNMPv3 user with read/write group. But, the user can access privilege 14 MIB (ex: reboot, configuration save, AAA)

377. [ACL] The classifier table only display 64 entries in Policy page when create 320 classifier entries.
378. [Private VLAN] A port which assigned by one static VLAN can assigned to private VLAN. Besides, after erase running, CLI will pop error messages.
379. [Private VLAN]:The error message for some English words can't spell correctly.
380. [Rmirror] In web page, it can create 3 Rmirror VLAN ruler with reflector port active: Yes. (Rmirror VLAN ruler only enable source reflector port and source reflector port number, not enable mirror port) CLI will be ok.
381. [Rmirror]In web page, it can create 3 Rmirror VLAN ruler with reflector port active: Yes (Rmirror VLAN ruler enable source reflector, source reflector port number, mirror port). But, The mirror port setting in 3rd Rmirror VLAN ruler is inconsistent between CLI and Web. Besides, it will pop error messages during system reboot. After reboot, show running will be abnormal.
382. [Rmirror] In web page, it can create Rmirror VLAN ruler with source reflector port, source reflector port number. But, it could not apply mirror port setting into the same Rmirror VLAN ruler again. Web will pop error message. "Reflector port config fail! the port is fixed by VLAN 100 (Rmirror VLAN)".

Enhanced Features:

- 1.

Limitation of Settings:

1.	VLAN 1Q static entry	4K
2.	Static MAC forwarding entry	256
3.	MAC filtering entry	256
4.	Cluster member	24
5.	IP routing domain	128
6.	IGMP Filtering entry	256
7.	IGMP MVR entry	256
8.	VRRP entry	64
9.	Protocol based VLAN entries per port	7
10.	Port-security max address-limit number	16K
11.	DHCP Server	16
12.	Syslog server entry	4
13.	IP source guard entry	1K
14.	IP subnet based VLAN entry	16
15.	MVR VLAN entry	5
16.	Vlan-stacking Selective QinQ entry	1K
17.	Vlan-mapping entry	1K
18.	MAC table	16K
19.	Routing table	1k
20.	DHCP snooping binding table	16K
21.	Routing path	512
22.	Multicast group	1K
23.	ACL	384
24.	Policy route	64
25.	DHCP option 82 profile	130
26.	Remote port monitoring vlan	10
27.	trtcm DSCP profiles	max number of port
28.	static arp entry	256
29.	Static route max entry	64

Firmware Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP FW:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF2C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF2C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP configuration:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF2C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF2C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in XGS3700-48HP

ZyXEL XGS3700-48HP V4.10(AAGF.1)C0

Release Note/Manual Supplement

Date: Mar. 29, 2013

This document describes the features in the **XGS3700-48HP** for its 4.10(**AAGF.1**)**C0** release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.1)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.1) | 03/28/2013 21:11:31

Bootbase Version : V1.00 | 03/27/2013 21:18:27

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.1) 03/28/2013 21:11:31
Bootbase Version	V1.00 03/27/2013 21:18:27
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	01
CPLD Version	N/A
RomFile Version	39
RomFile Checksum	3f23
ZyNOS Checksum	5e57
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 48 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (Support DDMI)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table
9. 1K IP address table

10. 512 routing path
11. 1K multicasting group
12. 2MB packet buffer.
13. IEEE 802.1D transparent bridging
14. Port-based VLAN
15. IEEE 802.1Q tag-based VLAN
16. Protocol-based VLAN
17. IP subnet based VLAN
18. GVRP
19. VRRP
20. IEEE802.1ad Double tagging
21. Selective QinQ
22. MAC filtering
23. Management through console, telnet, SNMP or web management
24. Firmware upgrade by FTP/TFTP
25. TFTP client / server
26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
29. 9K jumbo frame
30. Filtering/Mirroring by L2/L3/L4 rules
31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
36. IGMP filtering
37. MVR
38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
41. IGMP throttling
42. Static multicast
43. Administration user management
44. Multiple RADIUS server
45. Multiple TACACS+ servers
46. IEEE 802.1w RSTP
47. ZyXEL MRSTP
48. IEEE 802.1s MSTP
49. IEEE 802.3ah OAM
50. SNMPv3 support
51. 1K IP source guard
52. TRTCM
53. MAC authentication
54. Authentication & accounting by RADIUS / TACACS+
55. Loopguard
56. Daylight saving time support
57. IEEE 802.1ag CFM
58. IEEE 802.1AB LLDP
59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
65. Authorization on TACACS+
66. VLAN counter
67. Layer 2 protocol tunneling
68. Support 802.3ah standard MIB
69. MLD snooping proxy

70. DHCPv6: client and relay
71. ICMPv6
72. IPv6 Path MTU
73. NDP: host and router
74. IPv6 address stateless auto-configuration: host and router
75. IPv6 static route
76. Guest VLAN
77. Password encryption
78. User access right
79. PPPoE IA and option 82
80. ECMP
81. 384 ACL
82. 64 Policy route
83. Configurable ARP learning mode
84. Recovery mechanism for error-disabled port/reason.
85. CPU protection
86. sFlow
87. Private VLAN
88. Authorization on console
89. ARP Freeze
90. Static ARP setting
91. MAC pinning
92. Interface related trap can be enable/disable by port
93. Multiple default route
94. 802.1AB LLDP-MED
95. DHCP option 82 profile
96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
99. Dying gasp
100. DHCP Option82 per VLAN and per Port
101. Intrusion lock

Known Issue:

1. A filtering rule with discard source action will always filter packets regardless of source MAC or destination MAC.
2. When using three different spanning tree protocols (RSTP+MSTP+MRSTP) on the whole system, the system will loop.
3. Port movement of IPv6 address is not supported currently.
4. When RSTP is enabled with ring topology, LACP can't be activated at the same ports.
5. Config private VLAN with follow features are not recommend
 - VLAN stacking
 - VLAN mapping

Bug fix:

1. [MIB-zyxellpsg] When using SilverCreek to test the zyArpFreeze (OID: 1.3.6.1.4.1.890.1.15.3.33.1.1), DUT will crash.?
2. [Static Route] Send port-pair L3 traffic via static route, only one direction can forward. Please refer to the attachment file.?
3. [Mirror] In mirror test, the learned packet will broadcast to other ports. The behavior is abnormal. Execute MAC-Flush, DUT will be ok. Please refer to the attachment file.?
4. [Flow Control] Flow control could not load balance cross unit?
5. [syslog] when testing on enable/disable switch type trap-ping, DUT was crash and automatically restarted itself?
6. [MIB-transmission] The dot3StatsDeferredTransmissions (OID: 1.3.6.1.2.1.10.7.2.1.7) counter can't be added.?
7. [syslog] after system voltage value was back from error to normal, a recovered log should be display when show logging (ex: System voltage has recovered to normal state)?

8. [Syslog] Due to the radius server IP problem (set wrong/inexistence radius server IP),SNMPc should send trap(s) "RADIUS server not reachable" for each time user try to re-logging throu Radius server (not only display the trap once)?
9. [Policy Route] When create policy route, then subnet A ping access IP_B fails.?
10. [Arp Inspection] The log-buffer entries display abnormal in ARP inspection log-buffer function.?
11. [Rmirror] In web page, it must enable mirror port and direction,then work. But, in cli, it only configure mirror port direction directly. It make user confuse easily.?
12. [IPv6] In web page, user can modify and delete the global address ruler. But, user only can modify the link-local address ruler. What is difference between global address and link-local address?? Please refer to the attachment file.?
13. [Radius] When radius server only exists in server 2, device will send "Radius server 1 is unreachable" syslog. But, when radius server exists in server 1, device could not send "server 1 is reachable" syslog. Please refer to the attachment file.?
14. [CFM] After send LBM packets into device, device could not response with LBR. (it may be cc message timeout). It only occurs in 48 port device, not occurs in 24 port device. Please refer to script log.?
15. [Clone] When port copy running-config need long time. And destination port link down/link up when cloning.?
16. [IPv6] Ping the non-existent ipv6 host, device will send 9 ns packets and 3 request time out. But, CLI will display "transmit 3 packets,...". It makes user confused easily.
17. [IPv6] After modify ns interval to 10 seconds, and ping the non-existent ipv6 host, it should send 9 ns packets, not 3 ns packets.?
18. [ARP] Use SMB to simulate 128 host, device ping the simulated host via trunk interface, ping will time out. After unplug and plug-in the cable, ping will be ok. Please refer to the attachment file.
19. [CFM] In spanning tree topology, execute linktrace from device 3 to device 1 (eth cfm link re 7003 mep 1003 ma 3 md 1), the " chassis-id" field should be N/A, not empty or scramble . (eth cfm link re 7003 mep 1003 ma 3 md 1). Please refer to the attachment file.
20. [CFM] In spanning topology, execute linktrace from device 3 into device 4 (eth cfm link re 7001 mep 1001 ma 7 md 3), linktrace will be fail. After modify mep 7001 direction from down to up , it will be ok. The root cause may be spanning blocking port. It seems that spanning blocking port will effect mep direction setting. Please refer to the attachment file.
21. [MAC-Pinning] When enable mac pinning+trunking ports already learned {MAC A, VLAN A}, then the other ports (disable mac pinning) shouldn't learn {MAC A, VLAN A}
22. [Upgrade firmware] After upgrade firmware via web page, then CLI login fail during printing "...". Please refer to the attachment file.
23. [IP Load Sharing] It only create 8 static route entry. When create over 8 entry, CLI will pop error messages. Please refer to the attachment file.
24. [IPv6 Interface VLAN] Create over 64 ipv6 interface vlan, it should pop error message. Error: IPv6 iface number exceeds maximum, not Error: Static VLAN number exceeds maximum!. Please refer to the attachment file.
25. [IPv6 Interface vlan] Create 64 interface vlan and enter the existent interface vlan, CLI will pop error messages. Error: Static VLAN number exceeds maximum! Please refer to the attachment file.
26. [MIB-zyxelMldSnoopingProxy] When creating max zyMldSnoopingProxyVlanRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.51.3.5.1.2) rules, the max rules can't be deleted via MIB Browser.
27. [IPv6 Neighbor] It only create 64 interface vlan. But, it can create 256 neighbor entry with different vlan 1~256. it will cause some useless neighbor entry. Please refer to the attachment file.
28. [Syslog] Autonegotiation sync failed: a log message "WA interface: port 2 link speed and duplex mode autonegotiation has failed" should be shawn when show logging
29. [MIB-zyxellpv6StaticRoute] When setting the zylpv6StaticRouteNextHopIpAddress (OID: 1.3.6.1.4.1.890.1.15.3.37.1.2.1.5) to default value, it will pop error message but the value should be able to set OK.
30. [IPv6 Prefix] In ipv6 prefix, prefix lifetime could not smaller than valid lifetime. Please refer to the attachment file.
31. [Port Setup] When all port inactive/active, CLI pop error message.
32. [LACP+MRSTP+L2PT] When enable lacp+mrstp+l2pt, the lacp sync fails.

33. [MIB-dot3] The Port Index of the dot3StatsFrameTooLongs (OID: 1.3.6.1.2.1.10.7.2.1.13) counter is error.
34. [Static Route] Send port-pair L3 traffic to the non-existent next hop, after system reboot, the port-pair L3 traffic still can forward each other.
35. [MIB-zyxelMldSnoopingProxy] It should pop error message when setting the zyMldSnoopingProxyVlanRowStatus (OID: 1.3.6.1.4.1.890.1.15.3.51.3.5.1.2) to invalid value (ex: 123)
36. [Vlan Stacking] in CLI, columns (SPVID and priority) were not in the right format.

Enhanced Features:

1. Support DAC 10G

Limitation of Settings:

1. VLAN 1Q static entry		4K
2. Static MAC forwarding entry	256	
3. MAC filtering entry		256
4. Cluster member		24
5. IP routing domain		128
6. IGMP Filtering entry		256
7. IGMP MVR entry	256	
8. VRRP entry	64	
9. Protocol based VLAN entries per port		7
10. Port-security max address-limit number	16K	
11. DHCP Server		16
12. Syslog server entry		4
13. IP source guard entry		1K
14. IP subnet based VLAN entry		16
15. MVR VLAN entry		5
16. Vlan-stacking Selective QinQ entry		1K
17. Vlan-mapping entry		1K
18. MAC table		16K
19. Routing table		1k
20. DHCP snooping binding table		16K
21. Routing path		512
22. Multicast group		1K
23. ACL		384
24. Policy route	64	
25. DHCP option 82 profile		130
26. Remote port monitoring vlan	10	
27. trtcn DSCP profiles		max number of port
28. static arp entry		256
29. Static route max entry		64

Firmware Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

Upgrade XGS3700-48HP FW:

```
C:\> ftp <XGS3700-48HP IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAGF1C0.bin ras-0
```

ftp> bye

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF1C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in XGS3700-48HP

Configuration Upgrade:

The XGS3700-48HP uses FTP to upgrade firmware in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade XGS3700-48HP. The upgrade procedure is as follows:

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```
C:\> ftp <XGS3700-48HP IP address>
User : admin
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230 Logged in
ftp> put 410AAGF1C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAGF1C0.rom : the name of configuration file you want to upgrade
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ZyXEL XGS3700-48HP V4.10(AAGF.0)C0

Release Note/Manual Supplement

Date: Feb. 26, 2013

This document describes the features in the XGS3700-48HP for its 4.10(AAGF.0)C0 release.

Support Platforms:

ZyXEL XGS3700-48HP V4.10(AAGF.0)C0 supports models: ZyXEL XGS3700-48HP

Version:

ZyNOS Version : V4.10(AAGF.0) | 2/26/2013 17:20:39

Bootbase Version : V1.00 | 02/26/2013 17:19:54

Default Bootbase Setting:

ZyNOS Version	V4.10(AAGF.0) 2/26/2013 17:20:39
Bootbase Version	V1.00 02/26/2013 17:19:54
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	XGS3700-48HP
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB000036
MAC Address Quantity	54
Default Country Code	FF
Boot Module Debug Flag	01
CPLD Version	N/A
RomFile Version	39
RomFile Checksum	3f23
ZyNOS Checksum	1a2a
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 47 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00-00 13 00 00 00 00	

Features:

1. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
2. 48 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP+ 10G ports (Support DDMI)
4. PWM Fan Module
5. Local console
6. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
7. Fan-speed monitoring
8. 16K layer 2 MAC addresses table
9. 1K IP address table

10. 512 routing path
11. 1K multicasting group
12. 2MB packet buffer.
13. IEEE 802.1D transparent bridging
14. Port-based VLAN
15. IEEE 802.1Q tag-based VLAN
16. Protocol-based VLAN
17. IP subnet based VLAN
18. GVRP
19. VRRP
20. IEEE802.1ad Double tagging
21. Selective QinQ
22. MAC filtering
23. Management through console, telnet, SNMP or web management
24. Firmware upgrade by FTP/TFTP
25. TFTP client / server
26. Configuration saving and retrieving
27. Overheat detection
28. LED indications for link status
29. 9K jumbo frame
30. Filtering/Mirroring by L2/L3/L4 rules
31. Bandwidth control by L2/L3/L4 rules
32. Egress traffic shaping per port at 64Kbps step
33. BPDU transparency.
34. SSHv1/SSHv2/SSL
35. RFC 3164 Syslog
36. IGMP filtering
37. MVR
38. IGMP v1/v2/v3 snooping
39. IGMP snooping fast leave
40. IGMP snooping statistics
41. IGMP throttling
42. Static multicast
43. Administration user management
44. Multiple RADIUS server
45. Multiple TACACS+ servers
46. IEEE 802.1w RSTP
47. ZyXEL MRSTP
48. IEEE 802.1s MSTP
49. IEEE 802.3ah OAM
50. SNMPv3 support
51. 1K IP source guard
52. TRTCM
53. MAC authentication
54. Authentication & accounting by RADIUS / TACACS+
55. Loopguard
56. Daylight saving time support
57. IEEE 802.1ag CFM
58. IEEE 802.1AB LLDP
59. Link aggregation algorithm of source/destination IP address
60. MAC search
61. VLAN search
62. VLAN translation
63. VLAN MAC limit
64. Support transceiver DDMI information(including MIB)
65. Authorization on TACACS+
66. VLAN counter
67. Layer 2 protocol tunneling
68. Support 802.3ah standard MIB
69. MLD snooping proxy

70. DHCPv6: client and relay
71. ICMPv6
72. IPv6 Path MTU
73. NDP: host and router
74. IPv6 address stateless auto-configuration: host and router
75. IPv6 static route
76. Guest VLAN
77. Password encryption
78. User access right
79. PPPoE IA and option 82
80. ECMP
81. 384 ACL
82. 64 Policy route
83. Configurable ARP learning mode
84. Recovery mechanism for error-disabled port/reason.
85. CPU protection
86. sFlow
87. Private VLAN
88. Authorization on console
89. ARP Freeze
90. Static ARP setting
91. MAC pinning
92. Interface related trap can be enable/disable by port
93. Multiple default route
94. 802.1AB LLDP-MED
95. DHCP option 82 profile
96. Remote port mirroring
97. ZyXEL new private MIB
98. Dual image
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- 1.

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