

ZyXEL GS3700-24 V4.20(AAFY.0)C0

Release Note/Manual Supplement

Date: Jan. 22, 2015

This document describes the features in the **GS3700-24** for its 4.20(AAFY.0)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.20(AAFY.0)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.20(AAFY.0) | 01/21/2015 17:9:17
Bootbase Version : V2.00 | 07/21/2014 15:38:44

Default Bootbase Setting:

ZyNOS Version	V4.20(AAFY.0) 01/21/2015 17:9:17
Bootbase Version	V2.00 07/21/2014 15:38:44
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP 1G 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. 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. ACL 2.0
2. ECMP MAX Config
3. IP port move for VM
4. Voice VLAN
5. MAC based VLAN
6. LLDP enabled by default
7. 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.

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:

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

Firmware Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 420AAFY0C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin

- Password : the management password, 1234 by default
- 420AAFY0C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 420AAFY0C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 420AAFY0C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.6)C0

Release Note/Manual Supplement

Date: Sep. 16, 2014

This document describes the features in the **GS3700-24** for its 4.10(AAFY.6)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.6)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.6) | 09/16/2014 15:40:7
Bootbase Version : V1.00 | 03/27/2013 21:18:02

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.6) 09/16/2014 15:40:7
Bootbase Version	V1.00 03/27/2013 21:18:02
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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:

- 112. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
- 113. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
- 114. 4 SFP 1G ports (Support DDMI)
- 115. PWM Fan Module
- 116. Local console
- 117. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
- 118. Fan-speed monitoring
- 119. 16K layer 2 MAC addresses table
- 120. 1K IP address table

121. 64 routing path
122. 1K multicasting group
123. 2MB packet buffer.
124. IEEE 802.1D transparent bridging
125. Port-based VLAN
126. IEEE 802.1Q tag-based VLAN
127. Protocol-based VLAN
128. IP subnet based VLAN
129. GVRP
130. VRRP
131. IEEE802.1ad Double tagging
132. Selective QinQ
133. MAC filtering
134. Management through console, telnet, SNMP or web management
135. Firmware upgrade by FTP/TFTP
136. TFTP client / server
137. Configuration saving and retrieving
138. Overheat detection
139. LED indications for link status
140. 9K jumbo frame
141. Filtering/Mirroring by L2/L3/L4 rules
142. Bandwidth control by L2/L3/L4 rules
143. Egress traffic shaping per port at 64Kbps step
144. BPDU transparency.
145. SSHv1/SSHv2/SSL
146. RFC 3164 Syslog
147. IGMP filtering
148. MVR
149. IGMP v1/v2/v3 snooping
150. IGMP snooping fast leave
151. IGMP snooping statistics
152. IGMP throttling
153. Static multicast
154. Administration user management
155. Multiple RADIUS server
156. Multiple TACACS+ servers
157. IEEE 802.1w RSTP
158. ZyXEL MRSTP
159. IEEE 802.1s MSTP
160. IEEE 802.3ah OAM
161. SNMPv3 support
162. 1K IP source guard
163. TRTCM
164. MAC authentication
165. Authentication & accounting by RADIUS / TACACS+
166. Loopguard
167. Daylight saving time support
168. IEEE 802.1ag CFM
169. IEEE 802.1AB LLDP
170. Link aggregation algorithm of source/destination IP address
171. MAC search
172. VLAN search
173. VLAN translation
174. VLAN MAC limit
175. Support transceiver DDMI information(including MIB)
176. Authorization on TACACS+
177. VLAN counter
178. Layer 2 protocol tunneling
179. Support 802.3ah standard MIB
180. MLD snooping proxy

181. DHCPv6: client and relay
182. ICMPv6
183. IPv6 Path MTU
184. NDP: host and router
185. IPv6 address stateless auto-configuration: host and router
186. IPv6 static route
187. Guest VLAN
188. Password encryption
189. User access right
190. PPPoE IA and option 82
191. ECMP
192. 384 ACL
193. 64 Policy route
194. Configurable ARP learning mode
195. Recovery mechanism for error-disabled port/reason.
196. CPU protection
197. sFlow
198. Private VLAN
199. Authorization on console
200. ARP Freeze
201. Static ARP setting
202. MAC pinning
203. Interface related trap can be enable/disable by port
204. Multiple default route
205. 802.1AB LLDP-MED
206. DHCP option 82 profile
207. Remote port mirroring
208. ZyXEL new private MIB
209. Dual image
210. Dying gasp
211. DHCP Option82 per VLAN and per Port
212. Intrusion lock
213. DAC 10G
214. ES common MIB
215. ZyXEL One Network (ZON)
216. ZyXEL Neighbor Management
217. Web support : LLDP, LLDP-MED, Tech-support, Err-disable status, CPU utilization, Memory Utilization

Enhanced Features:

None

Known Issue:

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

Bug fix:

1. [MGMT] The switch crashes when getting the IPv6 address with max length and clicking IPv6 index via the web GUI.
2. [MGMT] Fix the incompatibility issue with Microsoft Windows OS 8.1 LLDP that will cause the switch loss of management.
3. [MGMT] Fix the web loss of management on the switch.

Limitation of Settings:

33.	VLAN 1Q static entry	4K
34.	Static MAC forwarding entry	256
35.	MAC filtering entry	256
36.	Cluster member	24
37.	IP routing domain	128
38.	IGMP Filtering entry	256
39.	IGMP MVR entry	256
40.	VRRP entry	64
41.	Protocol based VLAN entries per port	7
42.	Port-security max address-limit number	16K
43.	DHCP Server	16
44.	Syslog server entry	4
45.	IP source guard entry	1K
46.	IP subnet based VLAN entry	16
47.	MVR VLAN entry	5
48.	Vlan-stacking Selective QinQ entry	1K
49.	Vlan-mapping entry	1K
50.	MAC table	16K
51.	Routing table	1k
52.	DHCP snooping binding table	16K
53.	Routing path	512
54.	Multicast group	1K
55.	ACL	384
56.	Policy route	64
57.	DHCP option 82 profile	130
58.	Remote port monitoring vlan	10
59.	trtcn DSCP profiles	max number of port
60.	static arp entry	256
61.	Static route max entry	64

Firmware Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY6C0.bin ras-0
ftp> bye
```

Where

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

- 410AAFY6C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY6C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY6C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.5)C0

Release Note/Manual Supplement

Date: Jul. 18, 2014

This document describes the features in the **GS3700-24** for its 4.10(AAFY.5)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.5)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.5) | 07/18/2014 17:22:38
Bootbase Version : V1.00 | 03/27/2013 21:18:02

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.5) 07/18/2014 17:22:38
Bootbase Version	V1.00 03/27/2013 21:18:02
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
Default Country Code	FF
Boot Module Debug Flag	00
CPLD Version	N/A
RomFile Version	00
RomFile Checksum	1976
ZyNOS Checksum	9dfa
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
02 40 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:

- 218. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
- 219. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
- 220. 4 SFP 1G ports (Support DDMI)
- 221. PWM Fan Module
- 222. Local console
- 223. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
- 224. Fan-speed monitoring
- 225. 16K layer 2 MAC addresses table
- 226. 1K IP address table

- 227. 64 routing path
- 228. 1K multicasting group
- 229. 2MB packet buffer.
- 230. IEEE 802.1D transparent bridging
- 231. Port-based VLAN
- 232. IEEE 802.1Q tag-based VLAN
- 233. Protocol-based VLAN
- 234. IP subnet based VLAN
- 235. GVRP
- 236. VRRP
- 237. IEEE802.1ad Double tagging
- 238. Selective QinQ
- 239. MAC filtering
- 240. Management through console, telnet, SNMP or web management
- 241. Firmware upgrade by FTP/TFTP
- 242. TFTP client / server
- 243. Configuration saving and retrieving
- 244. Overheat detection
- 245. LED indications for link status
- 246. 9K jumbo frame
- 247. Filtering/Mirroring by L2/L3/L4 rules
- 248. Bandwidth control by L2/L3/L4 rules
- 249. Egress traffic shaping per port at 64Kbps step
- 250. BPDU transparency.
- 251. SSHv1/SSHv2/SSL
- 252. RFC 3164 Syslog
- 253. IGMP filtering
- 254. MVR
- 255. IGMP v1/v2/v3 snooping
- 256. IGMP snooping fast leave
- 257. IGMP snooping statistics
- 258. IGMP throttling
- 259. Static multicast
- 260. Administration user management
- 261. Multiple RADIUS server
- 262. Multiple TACACS+ servers
- 263. IEEE 802.1w RSTP
- 264. ZyXEL MRSTP
- 265. IEEE 802.1s MSTP
- 266. IEEE 802.3ah OAM
- 267. SNMPv3 support
- 268. 1K IP source guard
- 269. TRTCM
- 270. MAC authentication
- 271. Authentication & accounting by RADIUS / TACACS+
- 272. Loopguard
- 273. Daylight saving time support
- 274. IEEE 802.1ag CFM
- 275. IEEE 802.1AB LLDP
- 276. Link aggregation algorithm of source/destination IP address
- 277. MAC search
- 278. VLAN search
- 279. VLAN translation
- 280. VLAN MAC limit
- 281. Support transceiver DDMI information(including MIB)
- 282. Authorization on TACACS+
- 283. VLAN counter
- 284. Layer 2 protocol tunneling
- 285. Support 802.3ah standard MIB
- 286. MLD snooping proxy

- 287. DHCPv6: client and relay
- 288. ICMPv6
- 289. IPv6 Path MTU
- 290. NDP: host and router
- 291. IPv6 address stateless auto-configuration: host and router
- 292. IPv6 static route
- 293. Guest VLAN
- 294. Password encryption
- 295. User access right
- 296. PPPoE IA and option 82
- 297. ECMP
- 298. 384 ACL
- 299. 64 Policy route
- 300. Configurable ARP learning mode
- 301. Recovery mechanism for error-disabled port/reason.
- 302. CPU protection
- 303. sFlow
- 304. Private VLAN
- 305. Authorization on console
- 306. ARP Freeze
- 307. Static ARP setting
- 308. MAC pinning
- 309. Interface related trap can be enable/disable by port
- 310. Multiple default route
- 311. 802.1AB LLDP-MED
- 312. DHCP option 82 profile
- 313. Remote port mirroring
- 314. ZyXEL new private MIB
- 315. Dual image
- 316. Dying gasp
- 317. DHCP Option82 per VLAN and per Port
- 318. Intrusion lock
- 319. DAC 10G
- 320. 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:

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

Bug fix:

1. Power off and power on the device during system reboot process, all port will be inactive in show running.
2. ARP packet send back to incoming port, makes CISCO switch have a MAC Flapping log.
3. In spanning tree and static trunk environment, the host's mac will be learned to wrong port.
4. Send two LLDP packets (with system description length = 255) to an LLDP enabled port will cause DUT crash.
5. User can't be authorized when privilege of account is Cisco attribute and privilege level is 15.
6. LLDP-MED doesn't work with some IP phones.
7. When checksum of firmware image 1 is error, switch does not change to image 2.
8. Use Web to configure MLD snooping leave mode per port, immediate mode and Fast mode are inconsistent between CLI and WEB.
9. If subtype of remote Port ID is mac-address. It can't be showed on LLDP remote device information.
10. When enable trunk and group two or more ports, and then just link up one of these ports, DUT sends out those LLDP packets which is in the trunk group from the link-up port.
11. When we use ipv6 link-local URL to access the switch web UI on windows XP, pages with indirect URL are inaccessible. User cannot access the error.html when configuration is wrong.
12. When enabled IGMP snooping, IGMP general query received by DUT will be replaced with its own source mac.
13. Fix IGMP snooping group-specific queries(GSQ) with source MAC address 00: 00: 00: 00: 00: 00.
14. Set MIB traceroute IP address entry, the IP address could not set successfully.
15. DUT will crash when the "no multi-login" command is issued when multiple users login.

Limitation of Settings:

62.	VLAN 1Q static entry	4K
63.	Static MAC forwarding entry	256
64.	MAC filtering entry	256
65.	Cluster member	24
66.	IP routing domain	128
67.	IGMP Filtering entry	256
68.	IGMP MVR entry	256
69.	VRRP entry	64
70.	Protocol based VLAN entries per port	7
71.	Port-security max address-limit number	16K
72.	DHCP Server	16
73.	Syslog server entry	4
74.	IP source guard entry	1K
75.	IP subnet based VLAN entry	16
76.	MVR VLAN entry	5
77.	VLAN-stacking Selective QinQ entry	1K
78.	Vlan-mapping entry	1K
79.	MAC table	16K
80.	Routing table	1k
81.	DHCP snooping binding table	16K
82.	Routing path	512
83.	Multicast group	1K
84.	ACL	384
85.	Policy route	64
86.	DHCP option 82 profile	130
87.	Remote port monitoring vlan	10
88.	trTCM DSCP profiles	max number of port
89.	static ARP entry	256
90.	Static route max entry	64

Firmware Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY5C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY5C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY5C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY5C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.4)C0

Release Note/Manual Supplement

Date: Mar. 31, 2014

This document describes the features in the **GS3700-24** for its 4.10(AAFY.4)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.4)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.4) | 03/31/2014 11:34:37
Bootbase Version : V1.00 | 03/27/2013 21:18:02

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.4) 03/31/2014 11:34:37
Bootbase Version	V1.00 03/27/2013 21:18:02
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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:

- 321. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
- 322. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
- 323. 4 SFP 1G ports (Support DDMI)
- 324. PWM Fan Module
- 325. Local console
- 326. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
- 327. Fan-speed monitoring
- 328. 16K layer 2 MAC addresses table
- 329. 1K IP address table

- 330. 64 routing path
- 331. 1K multicasting group
- 332. 2MB packet buffer.
- 333. IEEE 802.1D transparent bridging
- 334. Port-based VLAN
- 335. IEEE 802.1Q tag-based VLAN
- 336. Protocol-based VLAN
- 337. IP subnet based VLAN
- 338. GVRP
- 339. VRRP
- 340. IEEE802.1ad Double tagging
- 341. Selective QinQ
- 342. MAC filtering
- 343. Management through console, telnet, SNMP or web management
- 344. Firmware upgrade by FTP/TFTP
- 345. TFTP client / server
- 346. Configuration saving and retrieving
- 347. Overheat detection
- 348. LED indications for link status
- 349. 9K jumbo frame
- 350. Filtering/Mirroring by L2/L3/L4 rules
- 351. Bandwidth control by L2/L3/L4 rules
- 352. Egress traffic shaping per port at 64Kbps step
- 353. BPDU transparency.
- 354. SSHv1/SSHv2/SSL
- 355. RFC 3164 Syslog
- 356. IGMP filtering
- 357. MVR
- 358. IGMP v1/v2/v3 snooping
- 359. IGMP snooping fast leave
- 360. IGMP snooping statistics
- 361. IGMP throttling
- 362. Static multicast
- 363. Administration user management
- 364. Multiple RADIUS server
- 365. Multiple TACACS+ servers
- 366. IEEE 802.1w RSTP
- 367. ZyXEL MRSTP
- 368. IEEE 802.1s MSTP
- 369. IEEE 802.3ah OAM
- 370. SNMPv3 support
- 371. 1K IP source guard
- 372. TRTCM
- 373. MAC authentication
- 374. Authentication & accounting by RADIUS / TACACS+
- 375. Loopguard
- 376. Daylight saving time support
- 377. IEEE 802.1ag CFM
- 378. IEEE 802.1AB LLDP
- 379. Link aggregation algorithm of source/destination IP address
- 380. MAC search
- 381. VLAN search
- 382. VLAN translation
- 383. VLAN MAC limit
- 384. Support transceiver DDMI information(including MIB)
- 385. Authorization on TACACS+
- 386. VLAN counter
- 387. Layer 2 protocol tunneling
- 388. Support 802.3ah standard MIB
- 389. MLD snooping proxy

390. DHCPv6: client and relay
391. ICMPv6
392. IPv6 Path MTU
393. NDP: host and router
394. IPv6 address stateless auto-configuration: host and router
395. IPv6 static route
396. Guest VLAN
397. Password encryption
398. User access right
399. PPPoE IA and option 82
400. ECMP
401. 384 ACL
402. 64 Policy route
403. Configurable ARP learning mode
404. Recovery mechanism for error-disabled port/reason.
405. CPU protection
406. sFlow
407. Private VLAN
408. Authorization on console
409. ARP Freeze
410. Static ARP setting
411. MAC pinning
412. Interface related trap can be enable/disable by port
413. Multiple default route
414. 802.1AB LLDP-MED
415. DHCP option 82 profile
416. Remote port mirroring
417. ZyXEL new private MIB
418. Dual image
419. Dying gasp
420. DHCP Option82 per VLAN and per Port
421. Intrusion lock
422. DAC 10G

Known Issue:

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

Bug fix:

1. ifOutUcastPkts entry count packet incorrectly on XE port.

Enhanced Features:

- 4.

Limitation of Settings:

91.	VLAN 1Q static entry	4K
92.	Static MAC forwarding entry	256
93.	MAC filtering entry	256
94.	Cluster member	24
95.	IP routing domain	128
96.	IGMP Filtering entry	256
97.	IGMP MVR entry	256
98.	VRRP entry	64
99.	Protocol based VLAN entries per port	7
100.	Port-security max address-limit number	16K
101.	DHCP Server	16
102.	Syslog server entry	4
103.	IP source guard entry	1K
104.	IP subnet based VLAN entry	16
105.	MVR VLAN entry	5
106.	VLAN-stacking Selective QinQ entry	1K
107.	Vlan-mapping entry	1K
108.	MAC table	16K
109.	Routing table	1k
110.	DHCP snooping binding table	16K
111.	Routing path	512
112.	Multicast group	1K
113.	ACL	384
114.	Policy route	64
115.	DHCP option 82 profile	130
116.	Remote port monitoring vlan	10
117.	trTCM DSCP profiles	max number of port
118.	static ARP entry	256
119.	Static route max entry	64

Firmware Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY4C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY4C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY4C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY4C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.3)C0

Release Note/Manual Supplement

Date: Mar. 28, 2014

This document describes the features in the **GS3700-24** for its 4.10(AAFY.3)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.3)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.3) | 03/28/2014 15:29:42
Bootbase Version : V1.00 | 03/27/2013 21:18:02

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.3) 03/28/2014 15:29:42
Bootbase Version	V1.00 03/27/2013 21:18:02
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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:

- 423. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
- 424. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
- 425. 4 SFP 1G ports (Support DDMI)
- 426. PWM Fan Module
- 427. Local console
- 428. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
- 429. Fan-speed monitoring
- 430. 16K layer 2 MAC addresses table
- 431. 1K IP address table

- 432. 64 routing path
- 433. 1K multicasting group
- 434. 2MB packet buffer.
- 435. IEEE 802.1D transparent bridging
- 436. Port-based VLAN
- 437. IEEE 802.1Q tag-based VLAN
- 438. Protocol-based VLAN
- 439. IP subnet based VLAN
- 440. GVRP
- 441. VRRP
- 442. IEEE802.1ad Double tagging
- 443. Selective QinQ
- 444. MAC filtering
- 445. Management through console, telnet, SNMP or web management
- 446. Firmware upgrade by FTP/TFTP
- 447. TFTP client / server
- 448. Configuration saving and retrieving
- 449. Overheat detection
- 450. LED indications for link status
- 451. 9K jumbo frame
- 452. Filtering/Mirroring by L2/L3/L4 rules
- 453. Bandwidth control by L2/L3/L4 rules
- 454. Egress traffic shaping per port at 64Kbps step
- 455. BPDU transparency.
- 456. SSHv1/SSHv2/SSL
- 457. RFC 3164 Syslog
- 458. IGMP filtering
- 459. MVR
- 460. IGMP v1/v2/v3 snooping
- 461. IGMP snooping fast leave
- 462. IGMP snooping statistics
- 463. IGMP throttling
- 464. Static multicast
- 465. Administration user management
- 466. Multiple RADIUS server
- 467. Multiple TACACS+ servers
- 468. IEEE 802.1w RSTP
- 469. ZyXEL MRSTP
- 470. IEEE 802.1s MSTP
- 471. IEEE 802.3ah OAM
- 472. SNMPv3 support
- 473. 1K IP source guard
- 474. TRTCM
- 475. MAC authentication
- 476. Authentication & accounting by RADIUS / TACACS+
- 477. Loopguard
- 478. Daylight saving time support
- 479. IEEE 802.1ag CFM
- 480. IEEE 802.1AB LLDP
- 481. Link aggregation algorithm of source/destination IP address
- 482. MAC search
- 483. VLAN search
- 484. VLAN translation
- 485. VLAN MAC limit
- 486. Support transceiver DDMI information(including MIB)
- 487. Authorization on TACACS+
- 488. VLAN counter
- 489. Layer 2 protocol tunneling
- 490. Support 802.3ah standard MIB
- 491. MLD snooping proxy

492. DHCPv6: client and relay
493. ICMPv6
494. IPv6 Path MTU
495. NDP: host and router
496. IPv6 address stateless auto-configuration: host and router
497. IPv6 static route
498. Guest VLAN
499. Password encryption
500. User access right
501. PPPoE IA and option 82
502. ECMP
503. 384 ACL
504. 64 Policy route
505. Configurable ARP learning mode
506. Recovery mechanism for error-disabled port/reason.
507. CPU protection
508. sFlow
509. Private VLAN
510. Authorization on console
511. ARP Freeze
512. Static ARP setting
513. MAC pinning
514. Interface related trap can be enable/disable by port
515. Multiple default route
516. 802.1AB LLDP-MED
517. DHCP option 82 profile
518. Remote port mirroring
519. ZyXEL new private MIB
520. Dual image
521. Dying gasp
522. DHCP Option82 per VLAN and per Port
523. Intrusion lock
524. DAC 10G

Known Issue:

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

Bug fix:

1. System crash due to timer variables overflow.
2. Sometimes lost management when enable PPPoE-IA.
3. Device crash when add and delete cluster members continuously, or login and logout through SSH, telnet, or FTP interface continuously.
4. TCP session state is always FINWAIT2 and the session is not terminated.
5. DUT crash after sending into a fake DHCP packet.
6. In spanning tree and static trunk environment. The host's mac will be learned to wrong port after topology change.

7. In static trunk environment. When MAC Move occurs, the host's mac will be learned to wrong port.
8. Fixed MIB style for what's up and remove unnecessary imports.
9. MAC authentication timeout works incorrectly, when radius-server timeout is less than MAC-authentication timeout.
10. Device crash when backup huge configuration to TFTP server via SSH version 1.
11. DUT crash. Setup DHCP option with long profile name, and then show running-configuration.
12. IGMP querier setting is disable, but DUT send out general query after DUT's querier port timeout.
13. DUT crash when MIB Browser walks zylgmpSnoopingGroupCountPortNumber.
14. When SilverCreek to test the zyxellpv6PathMtu table, DUT will crash.
15. Cluster two devices, FTP login into cluster manager, after put/get member configuration, allocated memory does not free.
16. If the management address type is ipv6, management address of "show LLDP info remote interface port-channel" will be abnormal format (mac-address format).
17. Set AAA authorization on console command should be saved.

Enhanced Features:

1. Enlarge the syslog entry from 1,000 to 10,000.
2. Display IP at syslog when telnet fail. " NO authentication: Telnet authentication failure [username: admin, IP address =192.168.1.56]".
3. Add power supply status in hardware monitor.
4. Support ZyXEL proprietary 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 GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY3C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY3C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY3C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY3C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.2)C0

Release Note/Manual Supplement

Date: May. 16, 2013

This document describes the features in the **GS3700-24** for its 4.10(AAFY.2)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.2)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.2) | 05/16/2013 10:38:34
Bootbase Version : V1.00 | 03/27/2013 21:18:02

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.2) 05/16/2013 10:38:34
Bootbase Version	V1.00 03/27/2013 21:18:02
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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:

- 525. Complies with IEEE802.3, IEEE802.3u, IEEE802.3z/ab, IEEE802.3x, IEEE802.3ae, IEEE802.3af, IEEE802.3at, IEEE802.3az, IEEE802.1p
- 526. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
- 527. 4 SFP 1G ports (Support DDMI)
- 528. PWM Fan Module
- 529. Local console
- 530. 1 10/100Mbps auto-sensing, auto-MDIX , Management RJ45 port
- 531. Fan-speed monitoring
- 532. 16K layer 2 MAC addresses table
- 533. 1K IP address table

- 534. 512 routing path
- 535. 1K multicasting group
- 536. 2MB packet buffer.
- 537. IEEE 802.1D transparent bridging
- 538. Port-based VLAN
- 539. IEEE 802.1Q tag-based VLAN
- 540. Protocol-based VLAN
- 541. IP subnet based VLAN
- 542. GVRP
- 543. VRRP
- 544. IEEE802.1ad Double tagging
- 545. Selective QinQ
- 546. MAC filtering
- 547. Management through console, telnet, SNMP or web management
- 548. Firmware upgrade by FTP/TFTP
- 549. TFTP client / server
- 550. Configuration saving and retrieving
- 551. Overheat detection
- 552. LED indications for link status
- 553. 9K jumbo frame
- 554. Filtering/Mirroring by L2/L3/L4 rules
- 555. Bandwidth control by L2/L3/L4 rules
- 556. Egress traffic shaping per port at 64Kbps step
- 557. BPDU transparency.
- 558. SSHv1/SSHv2/SSL
- 559. RFC 3164 Syslog
- 560. IGMP filtering
- 561. MVR
- 562. IGMP v1/v2/v3 snooping
- 563. IGMP snooping fast leave
- 564. IGMP snooping statistics
- 565. IGMP throttling
- 566. Static multicast
- 567. Administration user management
- 568. Multiple RADIUS server
- 569. Multiple TACACS+ servers
- 570. IEEE 802.1w RSTP
- 571. ZyXEL MRSTP
- 572. IEEE 802.1s MSTP
- 573. IEEE 802.3ah OAM
- 574. SNMPv3 support
- 575. 1K IP source guard
- 576. TRTCM
- 577. MAC authentication
- 578. Authentication & accounting by RADIUS / TACACS+
- 579. Loopguard
- 580. Daylight saving time support
- 581. IEEE 802.1ag CFM
- 582. IEEE 802.1AB LLDP
- 583. Link aggregation algorithm of source/destination IP address
- 584. MAC search
- 585. VLAN search
- 586. VLAN translation
- 587. VLAN MAC limit
- 588. Support transceiver DDMI information(including MIB)
- 589. Authorization on TACACS+
- 590. VLAN counter
- 591. Layer 2 protocol tunneling
- 592. Support 802.3ah standard MIB
- 593. MLD snooping proxy

- 594. DHCPv6: client and relay
- 595. ICMPv6
- 596. IPv6 Path MTU
- 597. NDP: host and router
- 598. IPv6 address stateless auto-configuration: host and router
- 599. IPv6 static route
- 600. Guest VLAN
- 601. Password encryption
- 602. User access right
- 603. PPPoE IA and option 82
- 604. ECMP
- 605. 384 ACL
- 606. 64 Policy route
- 607. Configurable ARP learning mode
- 608. Recovery mechanism for error-disabled port/reason.
- 609. CPU protection
- 610. sFlow
- 611. Private VLAN
- 612. Authorization on console
- 613. ARP Freeze
- 614. Static ARP setting
- 615. MAC pinning
- 616. Interface related trap can be enable/disable by port
- 617. Multiple default route
- 618. 802.1AB LLDP-MED
- 619. DHCP option 82 profile
- 620. Remote port mirroring
- 621. ZyXEL new private MIB
- 622. Dual image
- 623. Dying gasp
- 624. DHCP Option82 per VLAN and per Port
- 625. Intrusion lock
- 626. DAC 10G

Known Issue:

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

Bug fix:

- 2. [Rmirror] When changing Rmirror configuration, it may cause abnormal behavior
- 3. [ACL] When create 254 classifiers join policy rule via web, use CLI to show running-config, the DUT crash.
- 4. [Diagnostic] The inactive port doing cable diagnostic should not display cable length.
- 5. [MLD] configure MLD via web page will be inconsistent between CLI (show ipv6 MLD snooping VLAN) and Web.
- 6. [10G module] Enable 10G module in DAC10G mode, it could not be flushed successfully after erase running.
- 7. [VRRP] VRRP can't response ping in different routing domain.

8. [Flow Control]After backup and restore configuration file or system reboot, flow control could not work correctly for 48 port series
9. [SNMP Group] Create SNMPv3 user with read/write group. But, the user can access privilege 14 MIB(ex: reboot, configuration save, AAA)
10. [Private VLAN] A port which assigned by one static VLAN should not be assigned to private VLAN.
11. [POE] When user-defined PoE maximum power is less than PD required power, the alarm LED will light on.

Enhanced Features:

5.

Limitation of Settings:

120. VLAN 1Q static entry	4K
121. Static MAC forwarding entry	256
122. MAC filtering entry	256
123. Cluster member	24
124. IP routing domain	128
125. IGMP Filtering entry	256
126. IGMP MVR entry	256
127. VRRP entry	64
128. Protocol based VLAN entries per port	7
129. Port-security max address-limit number	16K
130. DHCP Server	16
131. Syslog server entry	4
132. IP source guard entry	1K
133. IP subnet based VLAN entry	16
134. MVR VLAN entry	5
135. Vlan-stacking Selective QinQ entry	1K
136. Vlan-mapping entry	1K
137. MAC table	16K
138. Routing table	1k
139. DHCP snooping binding table	16K
140. Routing path	512
141. Multicast group	1K
142. ACL	384
143. Policy route	64
144. DHCP option 82 profile	130
145. Remote port monitoring vlan	10
146. trtcn DSCP profiles	max number of port
147. static arp entry	256
148. Static route max entry	64

Firmware Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY2C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY2C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY2C0.rom rom-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY2C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.1)C0

Release Note/Manual Supplement

Date: Mar. 29, 2013

This document describes the features in the **GS3700-24** for its 4.10(AAFY.1)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.1)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.1) | 03/28/2013 21:11:31
Bootbase Version : V1.00 | 03/27/2013 21:18:02

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.1) 03/28/2013 21:11:31
Bootbase Version	V1.00 03/27/2013 21:18:02
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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 1G 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.

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 GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY1C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY1C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>  
User : admin  
Password: 1234  
230 Logged in  
ftp> put 410AAFY1C0.rom rom-0  
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY1C0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS3700-24

ZyXEL GS3700-24 V4.10(AAFY.0)C0

Release Note/Manual Supplement

Date: Feb. 26, 2013

This document describes the features in the GS3700-24 for its 4.10(AAFY.0)C0 release.

Support Platforms:

ZyXEL GS3700-24 V4.10(AAFY.0)C0 supports models: ZyXEL GS3700-24

Version:

ZyNOS Version : V4.10(AAFY.0) | 2/26/2013 17:20:39
Bootbase Version : V1.00 | 02/26/2013 17:19:00

Default Bootbase Setting:

ZyNOS Version	V4.10(AAFY.0) 2/26/2013 17:20:39
Bootbase Version	V1.00 02/26/2013 17:19:00
Serial Number	xxxxxxxxxxxxxx
Vendor Name	ZyXEL
Product Model	GS3700-24
ZyNOS Code Model	GS3700
ZyNOS ROM address	bdc00000
System Type	14
First MAC Address	0019CB000001
Last MAC Address	0019CB00001E
MAC Address Quantity	30
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 40 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. 24 fixed 100/1000Mbps auto-sensing, auto-MDIX on all RJ45
3. 4 SFP 1G 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.

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 +1
28.	static arp entry	256
29.	Static route max entry	64

Firmware Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 FW:

```
C:\> ftp <GS3700-24 IP address>
User : admin
Password: 1234
230 Logged in
ftp> put 410AAFY0C0.bin ras-0
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY0C0.bin : the name of firmware file you want to upgrade
- ras-0 : the internal firmware name in GS3700-24

Configuration Upgrade:

The GS3700-24 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 GS3700-24. The upgrade procedure is as follows:

Upgrade GS3700-24 configuration:

```
C:\> ftp <GS3700-24 IP address>  
User : admin  
Password: 1234  
230 Logged in  
ftp> put 410AAFY0C0.rom rom-0  
ftp> bye
```

Where

- User name : just press admin
- Password : the management password, 1234 by default
- 410AAFY0C0.rom : the name of configuration file you want to upgrade
- Rom-0 : the internal configuration name in GS3700-24