

# ZyXEL GS-2024 V3.80(LT.2)C0

## Release Note/Manual Supplement

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**Date:** Oct. 20, 2008

This document describes the features in the GS-2024 product for its 3.80(LT.2)C0 release.

### **Support Platforms:**

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ZyXEL GS-2024 V3.80(LT.2)C0 supports models: ZyXEL GS-2024

### **Version:**

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ZyNOS F/W Version: V3.80(LT.2) | 10/20/2008 17:34:48

Bootbase Version: V1.0 | 10/22/2008 10:53:03

### **Default Bootbase Setting:**

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ZyNOS Version	V3.80(LT.2)   10/20/2008 17:34:48
Bootbase Version	V1.0   10/22/2008 10:53:03
Vendor Name	ZyXEL
Product Model	GS-2024
ZyNOS Code Model	GS-2024
HTP Code Model	Unknown
ZyNOS ROM address	50080000
System Type	10
MAC Address	0019CB000001
Default Country Code	FF
Boot Module Debug Flag	01
RomFile Version	AA
RomFile Checksum	8f0d
ZyNOS Checksum	37c9
SNMP MIB level & OID	06010203040506070809101112131415161718192 0
Main Feature Bits	C0
Other Feature Bits	
B8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00-00 41 13 00 00 00	

### **Enhanced Features:**

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### **Features:**

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1. MAC address learning
2. Support IEEE 802.1D transparent bridge

3. Support IEEE 802.1Q tagged VLAN
4. Support Port-based VLAN
5. Support IEEE 802.1X
6. Support IEEE 802.1W
7. Support IEEE 802.3AD
8. Support GVRP
9. IGMP snooping
10. Support IEEE 802.1p
11. Automatic age out
12. Specific MAC addresses forwarding per port
13. Port Trunking
14. Port Mirroring
15. Bandwidth Control
16. Broadcast Storm Control
17. Support Strict Priority and WRR queuing method
18. Static IP management or dynamic IP(DHCP client)
19. Multiple IP address management
20. Firmware upgrade and configuration backup/restore.
21. Remote manageable.
22. Cluster Management
23. WEB manageable
24. Support RFC-1213 MIB II
25. Support RFC-1493 Bridge MIB
26. Support RFC-1643 Ethernet MIB
27. Support RFC-1757 Four group of RMON
28. Support RFC-2674 VLAN MIB
29. NEW CLI supported
30. System configuration backup / restore in text-mode
31. Multiple login supported
32. Radius management authentication
33. SSH/SSL support
34. DiffServ feature (DSCP – 802.1p priority mapping)
35. Multicast
36. MVR
37. IGMP Filtering
38. Syslog
39. Administration user management
40. RADIUS enhancement(for 802.1X enhancement and multiple radius servers)
41. IGMP enhancement
42. Web enhancement (Select all, Clone)
43. 802.1s MSTP
44. SNMPv3
45. Multilevel CLI
46. SNMP trap group
47. configurable multicast VLAN
48. independent IGMP snooping and MVR setting
49. enlarge concurrent telnet session
50. RADIUS accounting
51. TACACS+ authentication
52. TACACS+ accounting
53. IGMPv3 snooping
54. Loop guard
55. Daylight saving time
56. DHCP relay
57. IEEE 802.1X enhancement: add NAS-Port-Type attribute for Access-Request packet.

### ***Known Issue:***

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1. Don't suggest setting GS-2024 as the root bridge while enabling RSTP.
2. It may get the double limitation rate if enable bandwidth control with flow control scheme.
3. Don't upload the ras file of different platform.
4. Some configurations in old rom may not be erased when using "erase running-config" CLI command at the first time.

### ***Bug Fix:***

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1. When switch is busy for allocating memory for certain packet , the memory leak problem may happen. Because in this situation, our switch is busy for processing SNMP packet, so it cause memory leak.
2. When restore specific configuration (default management interface not in VLAN 1 and VLAN 1 has its own interface) will cause the running configuration error.
3. Sometimes, LED turns on after remove fiber cable.
4. When MVR/IGMP-snooping are enabled on GS-2024 together, it is a little bit out of order in registration of an IGMP-report to IGMP-snooping VLAN or MVR VLAN

### ***Limitation of Settings:***

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1. VLAN 1Q static entry 256
2. Static MAC forwarding entry 256
3. Cluster member 24
4. Management IP address 64
5. IGMP MVR entry 3
6. IGMP Filtering profile 256
7. Syslog server entry 4
8. MSTP MSTI 16
9. IGMP multicast VLAN entry 16
10. DHCP Entry 16

### ***Change History:***

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V3.80(LT.2)C0 (10/20/2008)

Bug Fix:

1. When switch is busy for allocating memory for certain packet , the memory leak problem may happen. Because in this situation, our switch is busy for processing SNMP packet, so it cause memory leak.
2. When restore specific configuration (default management interface not in VLAN 1 and VLAN 1 has its own interface) will cause the running configuration error.
3. Sometimes, LED turns on after remove fiber cable.
4. When MVR/IGMP-snooping are enabled on GS-2024 together, it is a little bit out of order in registration of an IGMP-report to IGMP-snooping VLAN or MVR VLAN

V3.80(LT.1)C0 (12/04/2007)

Modify FAN RPM limitation for green product

V3.80(LT.0)C0 (10/30/2007)

Support new features

V3.60(LT.2)C0 (4/23/2007)

Enhanced features:

1. MAC prefix change to 0019cb
2. Support IXP42x B0 stepping to B1

V3.60(LT.1)C0 (4/27/2006)

Enhanced features:

1. Revise Fan speed limit high from 6500 to 7000
2. 3.60(LT.0)C0 (08/19/2005)

# ZyXEL GS-2024 V3.80(LT.1)C0

## Release Note/Manual Supplement

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**Date:** Dec. 04, 2007

This document describes the features in the GS-2024 product for its 3.80(LT.1)C0 release.

### **Support Platforms:**

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ZyXEL GS-2024 V3.80(LT.1)C0 supports models: ZyXEL GS-2024

### **Version:**

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ZyNOS F/W Version: V3.80(LT.1) | 12/03/2007 17:40:14

Bootbase Version: V0.8 | 04/23/2007 13:32:12

### **Default Bootbase Setting:**

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ZyNOS Version	V3.80(LT.1)   12/03/2007 17:40:14
Bootbase Version	V0.8   04/23/2007 13:32:12
Vendor Name	ZyXEL
Product Model	GS-2024
ZyNOS Code Model	GS-2024
HTP Code Model	Unknown
ZyNOS ROM address	50080000
System Type	10
MAC Address	0019CB000001
Default Country Code	FF
Boot Module Debug Flag	01
RomFile Version	AA
RomFile Checksum	8f0d
ZyNOS Checksum	9f4e
SNMP MIB level & OID	06010203040506070809101112131415161718192 0
Main Feature Bits	C0
Other Feature Bits	
B8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00-00 41 13 00 00 00	

### **Enhanced Features:**

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1. 802.1s MSTP
2. SNMPv3
3. Multilevel CLI
4. SNMP trap group
5. configurable multicast VLAN
6. independent IGMP snooping and MVR setting

7. enlarge concurrent telnet session
8. RADIUS accounting
9. TACACS+ authentication
10. TACACS+ accounting
11. IGMPv3 snooping
12. Loop guard
13. Daylight saving time
14. DHCP relay
15. Enlarge system logs

### **Features:**

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58. MAC address learning
59. Support IEEE 802.1D transparent bridge
60. Support IEEE 802.1Q tagged VLAN
61. Support Port-based VLAN
62. Support IEEE 802.1X
63. Support IEEE 802.1W
64. Support IEEE 802.3AD
65. Support GVRP
66. IGMP snooping
67. Support IEEE 802.1p
68. Automatic age out
69. Specific MAC addresses forwarding per port
70. Port Trunking
71. Port Mirroring
72. Bandwidth Control
73. Broadcast Storm Control
74. Support Strict Priority and WRR queuing method
75. Static IP management or dynamic IP(DHCP client)
76. Multiple IP address management
77. Firmware upgrade and configuration backup/restore.
78. Remote manageable.
79. Cluster Management
80. WEB manageable
81. Support RFC-1213 MIB II
82. Support RFC-1493 Bridge MIB
83. Support RFC-1643 Ethernet MIB
84. Support RFC-1757 Four group of RMON
85. Support RFC-2674 VLAN MIB
86. NEW CLI supported
87. System configuration backup / restore in text-mode
88. Multiple login supported
89. Radius management authentication
90. SSH/SSL support
91. DiffServ feature (DSCP – 802.1p priority mapping)
92. Multicast
93. MVR
94. IGMP Filtering
95. Syslog
96. Administration user management
97. RADIUS enhancement(for 802.1X enhancement and multiple radius servers)
98. IGMP enhancement
99. Web enhancement (Select all, Clone)
100. 802.1s MSTP

101. SNMPv3
102. Multilevel CLI
103. SNMP trap group
104. configurable multicast VLAN
105. independent IGMP snooping and MVR setting
106. enlarge concurrent telnet session
107. RADIUS accounting
108. TACACS+ authentication
109. TACACS+ accounting
110. IGMPv3 snooping
111. Loop guard
112. Daylight saving time
113. DHCP relay
114. IEEE 802.1X enhancement: add NAS-Port-Type attribute for Access-Request packet.

### ***Known Issue:***

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5. Don't suggest setting GS-2024 as the root bridge while enabling RSTP.
6. It may get the double limitation rate if enable bandwidth control with flow control scheme.
7. Don't upload the ras file of different platform.
8. Some configurations in old rom may not be erased when using "erase running-config" CLI command at the first time.

### ***Bug Fix:***

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5. Modify FAN RPM limitation for green product.

### ***Limitation of Settings:***

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11. VLAN 1Q static entry 256
12. Static MAC forwarding entry 256
13. Cluster member 24
14. Management IP address 64
15. IGMP MVR entry 3
16. IGMP Filtering profile 256
17. Syslog server entry 4
18. MSTP MSTI 16
19. IGMP multicast VLAN entry 16
20. DHCP Entry 16

### ***Change History:***

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V3.80(LT.1)C0 (12/04/2007)

Modify FAN RPM limitation for green product

V3.80(LT.0)C0 (10/30/2007)

Support new features

V3.60(LT.2)C0 (4/23/2007)

Enhanced features:

3. MAC prefix change to 0019cb
4. Support IXP42x B0 stepping to B1

V3.60(LT.1)C0 (4/27/2006)

Enhanced features:

3. Revise Fan speed limit high from 6500 to 7000
4. 3.60(LT.0)C0 (08/19/2005)

# ZyXEL GS-2024 V3.80(LT.0)C0

## Release Note/Manual Supplement

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**Date:** Oct. 30, 2007

This document describes the features in the GS-2024 product for its 3.80(LT.0)C0 release.

### **Support Platforms:**

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ZyXEL GS-2024 V3.80(LT.0)C0 supports models: ZyXEL GS-2024

### **Version:**

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ZyNOS F/W Version: V3.80(LT.0) | 10/30/2007 14:29:49

Bootbase Version: V0.8 | 04/23/2007 13:32:12

### **Default Bootbase Setting:**

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ZyNOS Version	V3.80(LT.0)   10/30/2007 14:29:49
Bootbase Version	V0.8   04/23/2007 13:32:12
Vendor Name	ZyXEL
Product Model	GS-2024
ZyNOS Code Model	GS-2024
HTP Code Model	Unknown
ZyNOS ROM address	50080000
System Type	10
MAC Address	0019CB000001
Default Country Code	FF
Boot Module Debug Flag	01
RomFile Version	AA
RomFile Checksum	8f0d
ZyNOS Checksum	1c37
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
B8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00-00 41 13 00 00 00	

### **Enhanced Features:**

---

1. 802.1s MSTP
2. SNMPv3
3. Multilevel CLI
4. SNMP trap group
5. configurable multicast VLAN
6. independent IGMP snooping and MVR setting

7. enlarge concurrent telnet session
8. RADIUS accounting
9. TACACS+ authentication
10. TACACS+ accounting
11. IGMPv3 snooping
12. Loop guard
13. Daylight saving time
14. DHCP relay
15. Enlarge system logs

### **Features:**

---

1. MAC address learning
2. Support IEEE 802.1D transparent bridge
3. Support IEEE 802.1Q tagged VLAN
4. Support Port-based VLAN
5. Support IEEE 802.1X
6. Support IEEE 802.1W
7. Support IEEE 802.3AD
8. Support GVRP
9. IGMP snooping
10. Support IEEE 802.1p
11. Automatic age out
12. Specific MAC addresses forwarding per port
13. Port Trunking
14. Port Mirroring
15. Bandwidth Control
16. Broadcast Storm Control
17. Support Strict Priority and WRR queuing method
18. Static IP management or dynamic IP(DHCP client)
19. Multiple IP address management
20. Firmware upgrade and configuration backup/restore.
21. Remote manageable.
22. Cluster Management
23. WEB manageable
24. Support RFC-1213 MIB II
25. Support RFC-1493 Bridge MIB
26. Support RFC-1643 Ethernet MIB
27. Support RFC-1757 Four group of RMON
28. Support RFC-2674 VLAN MIB
29. NEW CLI supported
30. System configuration backup / restore in text-mode
31. Multiple login supported
32. Radius management authentication
33. SSH/SSL support
34. DiffServ feature (DSCP – 802.1p priority mapping)
35. Multicast
36. MVR
37. IGMP Filtering
38. Syslog
39. Administration user management
40. RADIUS enhancement(for 802.1X enhancement and multiple radius servers)
41. IGMP enhancement
42. Web enhancement (Select all, Clone)
43. 802.1s MSTP

44. SNMPv3
45. Multilevel CLI
46. SNMP trap group
47. configurable multicast VLAN
48. independent IGMP snooping and MVR setting
49. enlarge concurrent telnet session
50. RADIUS accounting
51. TACACS+ authentication
52. TACACS+ accounting
53. IGMPv3 snooping
54. Loop guard
55. Daylight saving time
56. DHCP relay
57. IEEE 802.1X enhancement: add NAS-Port-Type attribute for Access-Request packet.

### ***Known Issue:***

---

1. Don't suggest setting GS-2024 as the root bridge while enabling RSTP.
2. It may get the double limitation rate if enable bandwidth control with flow control scheme.
3. Don't upload the ras file of different platform.
4. Some configurations in old rom may not be erased when using "erase running-config" CLI command at the first time.

### ***Bug Fix:***

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- 1.

### ***Limitation of Settings:***

---

1. VLAN 1Q static entry 256
2. Static MAC forwarding entry 256
3. Cluster member 24
4. Management IP address 64
5. IGMP MVR entry 3
6. IGMP Filtering profile 256
7. Syslog server entry 4
8. MSTP MSTI 16
9. IGMP multicast VLAN entry 16
10. DHCP Entry 16

### ***Change History:***

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V3.80(LT.0)C0 (10/30/2007)  
Support new features

V3.60(LT.2)C0 (4/23/2007)

Enhanced features:

1. MAC prefix change to 0019cb
2. Support IXP42x B0 stepping to B1

V3.60(LT.1)C0 (4/27/2006)

Enhanced features:

1. Revise Fan speed limit high from 6500 to 7000

V3.60(LT.0)C0 (08/19/2005)

## ZyXEL GS-2024 V3.60(LT.2)

### Release Note/Manual Supplement

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**Date:** April 27, 2006

This document describes the features in the GS-2024 product for its 3.60(LT.2) release.

#### **Support Platforms:**

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ZyXEL GS-2024 V3.60(LT.2) supports models: Dimension GS-2024

#### **Version:**

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ZyNOS Version: V3.60(LT.2) | 04/23/2007 12:00:42

Bootbase Version: V0.8 | 04/23/2007 13:32:12

#### **Default Bootbase Setting:**

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ZyNOS Version	V3.60(LT.2)   04/23/2007 12:00:42
Bootbase Version	V0.8   04/23/2007 13:32:12
Vendor Name	ZyXEL Communications Corp.
Product Model	GS-2024
ZyNOS Code Model	GS-2024
HTP Code Model	Unknown
ZyNOS ROM address	50080000
System Type	10
MAC Address	0019CB000001
Default Country Code	FF
Boot Module Debug Flag	00
RomFile Version	43
RomFile Checksum	3380
ZyNOS Checksum	4ef7
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
D8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00-00 4113 00 00 00	

#### **Features:**

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1. 24 ports Auto MDI/MDI-X 100/1000Mbps compliant with IEEE802.3u/x/ab
2. 8K layer2 MAC addresses table
3. Port-based VLAN

4. IEEE 802.1Q tag-based VLAN
5. Support 802.3x/ad
6. IGMP snooping
7. Management through console, telnet, SNMP or web management
8. Firmware upgrade by FTP or HTTP
9. Clustering management

### ***Enhanced Features:***

---

1. MAC prefix change to 0019cb
2. Support IXP42x B0 stepping to B1

### ***Known Issue:***

---

5. Don't suggest setting GS-2024 as the root bridge while enabling RSTP.
6. It may get the double limitation rate if enable bandwidth control with flow control scheme.
7. Don't upload the ras file of different platform.
8. Some configurations in old rom may not be erased when using "erase running-config" CLI command at the first time.

### ***Bug Fix:***

---

### ***Change History:***

---

V3.60(LT.2)C0 (4/23/2007)

Enhanced features:

3. MAC prefix change to 0019cb
4. Support IXP42x B0 stepping to B1

V3.60(LT.1)C0 (4/27/2006)

Enhanced features:

2. Revise Fan speed limit high from 6500 to 7000

V3.60(LT.0)C0 (08/19/2005)

# ZyXEL GS-2024 V3.60(LT.1)

## Release Note/Manual Supplement

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**Date:** April 27, 2006

This document describes the features in the GS-2024 product for its 3.60(LT.1) release.

### **Support Platforms:**

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ZyXEL GS-2024 V3.60(LT.1) supports models: Dimension GS-2024

### **Version:**

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ZyNOS Version: V3.60(LT.1) | 04/27/2006

Bootbase Version: V0.7 | 06/09/2005

### **Default Bootbase Setting:**

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ZyNOS Version	V3.60(LT.1)   04/27/2006 10:22:01
Bootbase Version	V0.7   06/09/2005 16:44:26
Vendor Name	ZyXEL Communications Corp.
Product Model	GS-2024
ZyNOS Code Model	GS-2024
HTP Code Model	Unknown
ZyNOS ROM address	50080000
System Type	10
MAC Address	001349000001
Default Country Code	FF
Boot Module Debug Flag	00
RomFile Version	43
RomFile Checksum	3380
ZyNOS Checksum	8b43
SNMP MIB level & OID	060102030405060708091011121314151617181920
Main Feature Bits	C0
Other Feature Bits	
D8 00 00 00 00 00 00 00 00-00 00 00 00 00 00 00 00	
00 00 00 00 00 00 00 00 00-00 4113 00 00 00	

### **Features:**

---

1. 24 ports Auto MDI/MDI-X 100/1000Mbps compliant with IEEE802.3u/x/ab
2. 8K layer2 MAC addresses table
3. Port-based VLAN
4. IEEE 802.1Q tag-based VLAN
5. Support 802.3x/ad
6. IGMP snooping

7. Management through console, telnet, SNMP or web management
8. Firmware upgrade by FTP or HTTP
9. Clustering management

### ***Enhanced Features:***

---

5. Revise Fan speed limit high from 6500 to 7000

### ***Known Issue:***

---

1. Don't suggest setting GS-2024 as the root bridge while enabling RSTP.
2. It may get the double limitation rate if enable bandwidth control with flow control scheme.
3. Don't upload the ras file of different platform.
4. Some configurations in old rom may not be erased when using "erase running-config" CLI command at the first time.

### ***Bug Fix:***

---

### ***Change History:***

---

V3.60(LT.1)C0 (4/27/2006)

Enhanced features:

1. Revise Fan speed limit high from 6500 to 7000

V3.60(LT.0)C0 (08/19/2005)

# ZyXEL GS-2024 V3.60(LT.0)

## Release Note/Manual Supplement

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**Date:** Aug 19, 2005

This document describes the features in the GS-2024 product for its 3.60(LT.0) release.

### ***Support Platforms:***

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ZyXEL GS-2024 V3.60(LT.0) supports models: Dimension GS-2024

### ***Version:***

---

ZyNOS Version: V3.60(LT.0) | 08/19/2005

Bootbase Version: V0.7 | 06/09/2005

### ***Features:***

---

1. 24 ports Auto MDI/MDI-X 100/1000Mbps compliant with IEEE802.3u/x/ab
2. 8K layer2 MAC addresses table
3. Port-based VLAN
4. IEEE 802.1Q tag-based VLAN
5. Support 802.3x/ad
6. IGMP snooping
7. Management through console, telnet, SNMP or web management
8. Firmware upgrade by FTP or HTTP
9. Clustering management

### ***Known Issue:***

---

1. Don't suggest setting GS-2024 as the root bridge while enabling RSTP.
2. It may get the double limitation rate if enable bandwidth control with flow control scheme.
3. Don't upload the ras file of different platform.
4. Some configurations in old rom may not be erased when using "erase running-config" CLI command at the first time.

### ***Bug Fix:***

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***Manufacture Related Data:***

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```
ZyNOS Version      : V3.60(LT.0) | 08/19/2005 10:12:33
Bootbase Version   : V0.7 | 06/09/2005 16:44:26
Serial Number      : xxxxxxxxxxxxxxxxxxxx
Vendor Name        : ZyXEL Communications Corp.
Product Model      : GS-2024
ZyNOS Code Model   : GS-2024
HTP Code Model     : Unknown
ZyNOS ROM address  : 50080000
System Type        : 10
MAC Address        : 001349000001
Default Country Code : FF
Boot Module Debug Flag : 01
RomFile Version    : 43
RomFile Checksum   : 3380
ZyNOS Checksum     : 827b
SNMP MIB level & OID : 060102030405060708091011121314151617181920
Main Feature Bits  : C0
Other Feature Bits :
      B8 00 00 00 00 00 00 00-00 00 00 00 00 00 00
      00 00 00 00 00 00 00 00-00 41 13 00 00 00
```

## ***Firmware Upgrade:***

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The GS-2024 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 GS-2024. The upgrade procedure is as follows:

### **Upgrade GS-2024 FW:**

```
C:\> ftp <GS-2024 IP address>
User : <Enter>
Password: 1234
230 Logged in
ftp> put 360LT0b0.bin ras
ftp> bye
```

Where

- User name : just press <Enter>
- Password : the management password, 1234 by default
- 360LT0b0.bin : the name of firmware file you want to upgrade
- ras : the internal firmware name in GS-2024

## ***Configuration Upgrade:***

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The GS-2024 uses FTP to upgrade configuration in run-time through its built-in FTP server. You can use any FTP client (for example, [ftp.exe](#) in Windows) to upgrade GS-2024. The upgrade procedure is as follows:

### **Upgrade GS-2024 configuration:**

```
C:\> ftp <GS-2024 IP address>
User : <Enter>
Password: 1234
230 Logged in
ftp> put 360LT0b0.rom rom-0
ftp> bye
```

Where

- User name : just press <Enter>
- Password : the management password, 1234 by default
- 360LT0b0.rom : the name of configuration file you want to upgrade
- rom-0 : the internal configuration name in GS-2024