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# GXW450X Firmware Release Notes

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## FIRMWARE VERSION 1.0.0.29

### PRODUCT NAME

GXW4501/GXW4502/GXW4504

### DATE

09/27/2019

### FIRMWARE FILE INFORMATION

- GXW450X firmware file name: gxw4500fw.bin
- MD5 checksum: 3c117760837283146d8bc61aa60063fb

### CHANGES SINCE FIRMWARE 1.0.0.27

#### ENHANCEMENTS

- [Interface Settings] Added the ability to configure tone region.
- [VoIP Trunks] Added the ability to configure DODs for VoIP trunks.

#### BUG FIXES

- [Basic Call] Fixed an issue with audio cutoff when there is simultaneous audio from both caller and callee.
- [Provisioning] Fixed an issue with receiving configuration updates and firmware upgrades when the device is using PPPoE.

#### KNOWN ISSUES

- [Jitter Buffer] Jitter buffer does not work occasionally when buffer size is set to *Adaptive*.
- [HTTP Server] When *HTTP → Enable IP Address Whitelist* is toggled on, users will be unable to modify the page.
- [Routing] When receiving a call from a peer trunk and when outbound routes to the peer trunk and an E1/T1 trunk use the same pattern rules, the call may loop back to the peer trunk.
- [Routing] Calls will drop if there is a comma in the *Trunks → Inbound Routes → Edit Inbound Route → Set CallerID Info → CallerID Name* field.

- [Routing] Unsupported characters \ ; “ can be entered into the *Trunks* → *Inbound Routes* → *Edit Inbound Route* → *Set CallerID Info* → *CallerID Name* field.
- [Time Settings] When using 12-hour format, times between 12PM – 1PM will display AM instead of PM.

## FIRMWARE VERSION 1.0.0.27

### PRODUCT NAME

GXW4501/GXW4502/GXW4504

### DATE

08/22/2019

### FIRMWARE FILE INFORMATION

- GXW450X firmware file name: gxw4500fw.bin
- MD5 checksum: 382d338e39e22388e1ca9e44f2001780

### CHANGES SINCE FIRMWARE 1.0.0.24

#### ENHANCEMENTS

- [Provisioning] All configuration options can now be provisioned except for those in the following pages: Digital/VoIP Trunks, Inbound/Outbound Routes, Interface Settings, and DDNS Settings.
- [Provisioning] Added GAPS provisioning support.
- [Routing] Added the **Set Caller ID** option to the *Edit Inbound Rule* page. [MANIPULATING CALLER ID FOR INBOUND CALLS]
- [Routing] Added the **Enable Filter on Source Caller ID** option to the *Edit Outbound Rule* page. This option will allow only callers with the specified CID pattern to use the outbound route. BUG FIXES
- [Provisioning] Fixed several provisioning issues.
- [System Events] Fixed an issue with periodic alerts not sending properly after upgrading firmware.
- [Web] Fixed an issue with the "Apply Changes" button not appearing in the Maintenance->Upgrade page after making changes.
- [Web] Fixed an issue with the Dashboard->Interface Status->Digital indicator displaying incorrectly when the Gateway Settings->Interface Settings->Basic Settings->Data Channel is set to "1".

## NEW FEATURES OVERVIEW

### MANIPULATING CALLER ID FOR INBOUND CALLS

Users can now manipulate the callerID number and names for inbound calls by editing a syntax.

**Create New Inbound Rule**

<b>*Trunks:</b>	<input type="text" value="PRITrunks -- Digital_1"/>
<b>*Pattern:</b>	<input style="height: 40px;" type="text"/>
CallerID Pattern:	<input style="height: 40px;" type="text"/>
Set CallerID Info:	<input checked="" type="checkbox"/>
<b>*CallerID Name:</b>	<input type="text" value="\${CALLERID(name)}"/>
<b>*CallerID Number:</b>	<input type="text" value="\${CALLERID(num)}"/>

#### CallerID Number Syntax Explanation:

- **`\${CALLERID(num)}`**: Default value which indicates the number of an incoming caller (CID). The CID will not be modified.
- **`\${CALLERID(num);n}`**: Skips the first n characters of a CID number, where n is a number.
- **`\${CALLERID(num);-n}`**: Takes the last n characters of a CID number, where n is a number.
- **`\${CALLERID(num);s;n}`**: Takes n characters of a CID number starting from s+1, where n is a number and s is a character position (e.g. ``${CALLERID(num);2;7}`` takes 7 characters after the second character of a CID number).
- **n`\${CALLERID(num)}`**: Prepends n to a CID number, where n is a number.

#### CallerID Name Syntax Explanation:

- **`\${CALLERID(name)}`**: Default value. Indicates the name of an incoming caller.
- **A`\${CALLERID(name)}B`**: Prepend a character 'A' and append a character 'B' to ``${CALLERID(name)}``.
- Inputting text without any syntax will set a fixed name for CID Name.

## KNOWN ISSUES

- [Routing] When receiving a call from a peer trunk and when outbound routes to the peer trunk and an E1/T1 trunk use the same pattern rules, the call may loop back to the peer trunk.

## **FIRMWARE VERSION 1.0.0.24**

### **PRODUCT NAME**

GXW4501/GXW4502/GXW4504

### **DATE**

06/06/2019

### **FIRMWARE FILE INFORMATION**

- GXW450X firmware file name: gxw4500fw.bin

MD5 checksum: c1319547317e5571b12a79e497c97e02

### **CHANGES/ENHANCEMENT**

- Internal bug fixes



## FIRMWARE VERSION 1.0.0.22

### PRODUCT NAME

GXW4501/GXW4502/GXW4504

### DATE

04/26/2019

### FIRMWARE FILE INFORMATION

- GXW450X firmware file name: gwx4500fw.bin

MD5 checksum: 8988e06dd7730439d1a0623438e5dc45

### CHANGES/ENHANCEMENT

- Fixed issue that E1 option "PRI Indication" can't take effect
- Fixed issue that enabled static route may turn to disabled in few circumstances, including upgrading firmware, changing router/switch mode, or rebooting unit.
- Internal bug fixes

### KNOWN ISSUE

- Static IPv6 configuration page has no default gateway option. Need to manually add static route with destination ::/0 as default route.

## FIRMWARE VERSION 1.0.0.20

### PRODUCT NAME

GXW4501/GXW4502/GXW4504

### DATE

04/04/2019

### FIRMWARE FILE INFORMATION

- GXW450X firmware file name: gxw4500fw.bin

MD5 checksum: 46b423b21550e9043bbc042026618669

### CHANGES/ENHANCEMENT

- Fixed issue that Dynamic IPv6 WAN mode will need manually adding default gateway into static route. Now Dynamic IPv6 on WAN should work without need of manual configuration of static route.
- Fixed issue that importing inbound report csv file will fail if no existing inbound route configured.
- Fixed issue that Router model with PPPoE WAN setting will cause LAN device fail to connect internet.
- Internal bug fixes

### KNOWN ISSUE

- Static IPv6 configuration page has no default gateway option. Need to manually add static route with destination ::/0 as default route.
- Enabled static route may turn to disabled in few circumstances, including upgrading firmware, changing router/switch mode, or rebooting unit. However, the static route still functioning as enabled, and reboot will fix the display issue.
- E1 option "PRI Indication" can't take effect

## **FIRMWARE VERSION 1.0.0.18**

### **PRODUCT NAME**

GXW4501/GXW4502/GXW4504

### **DATE**

03/22/2019

### **FIRMWARE FILE INFORMATION**

- GXW450X firmware file name: gxw4500fw.bin
- MD5 checksum: f62de1499dbec183cd779a052f321459

### **IMPORTANT UPGRADING NOTE**

- This is first release of GXW450X

### **KNOWN ISSUE**

- Router model with PPPoE WAN setting will cause LAN device fail to connect internet.
- After upgrade from older firmware version to 1.0.0.18. Enabled static route may turn to disabled. However, it's still functioning as enabled. Reboot will fix the display issue.
- Import inbound report csv file will fail if no existing inbound route configured. Manually add one inbound route will fix the issue.
- Dynamic IPv6 WAN mode will need manually adding default gateway into static route.