

GCC601X UC + Networking Convergence Solutions

System Firmware Release Notes

IMPORTANT UPGRADING NOTE

- [12/6/2024] [1.0.5.5 (SYS)] Due to changes in Application Filtering, users will no longer be able to downgrade to SYS 1.0.3.x or lower and PBX 1.0.25.41 or lower after upgrading to 1.0.5.5.
- [8/21/2024] [1.0.1.34 (SYS)] Supported new GCC601x models and blocked firmware downgrade to any older firmware than 1.0.1.34.
- [7/26/2024] [1.0.1.32 (SYS)] Changed the default value from Enable to Disable for **“Allow DHCP Option 43 and 66 to Override Server”** and **“Check/Download New Firmware at Bootup”**. Upon upgrading from older version, these two options will be disabled. Please re-enable it if needed.

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FIRMWARE FILE DOWNLOAD

Individual firmware files are available for downloading at URL below:

<https://www.grandstream.com/support/firmware>

FIRMWARE VERSION 1.0.7.48 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

9/18/2025

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 58f3d9225124b40c6f96692900516e90
- GCC601x complete firmware file name: gcc601xfullyfw.bin
MD5 checksum: 0f1862b0bd9ff858926948b43e473381
(Including SYS 1.0.7.48 + PBX 1.0.27.90)

CHANGES/ENHANCEMENT

- Added support for GDMS new IPsec option “Add Router LAN address”, which will allow the router to use its own LAN address to configure local subnet for VPN.
- Added support for USB 4G/5G dongle.

FIRMWARE VERSION 1.0.7.46 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

9/18/2025

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 8e748d405355f9c0012d5ce10db24185
- GCC601x complete firmware file name: gcc601xfullyfw.bin
MD5 checksum: c6dc027a626e09bec0edd71ca7b84464
(Including SYS 1.0.7.46 + PBX 1.0.27.90)

BUG FIXING

- Internal bug fixes

FIRMWARE VERSION 1.0.7.44 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

8/27/2025

FIRMWARE FILE INFORMATION

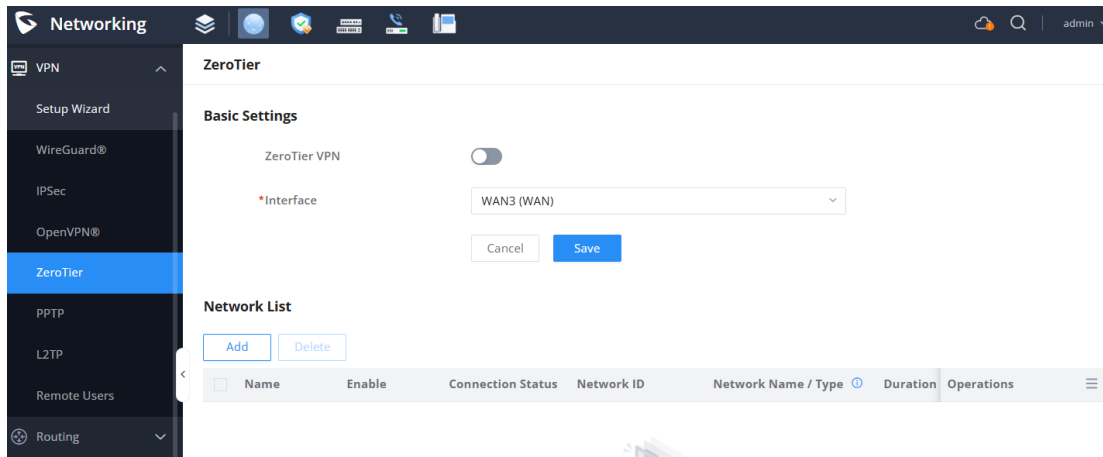
- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 24a69f2f7aeb85b9f5e183cddad0b515
- GCC601x complete firmware file name: gcc601xfullyfw.bin
MD5 checksum: 88f3c1609ad8092734d44557f1694437
(Including SYS 1.0.7.44 + PBX 1.0.27.89)

CHANGES/ENHANCEMENT

- **Home**
 - **Overview → Basic Information:** Added Security Versions.
 - **System Settings → Basic Settings:** Added **LED Indicator** configurations.
 - **System Settings → Security Settings → Web Access:** Added **Server Certificate**.
 - **System Settings → SMS Settings:** Added support for **Alibaba Cloud**.
 - **Maintenance → Backup & Restore:** Added support for changing backup file name.
 - **Setup Wizard:** Added session for quick firewall inbound policy configuration.
- **Networking**
 - **Network Settings → Port Configuration:** Added configuration for Port Name
 - **Network Settings → LAN → Static IP Binding:** Added support for VLAN setting

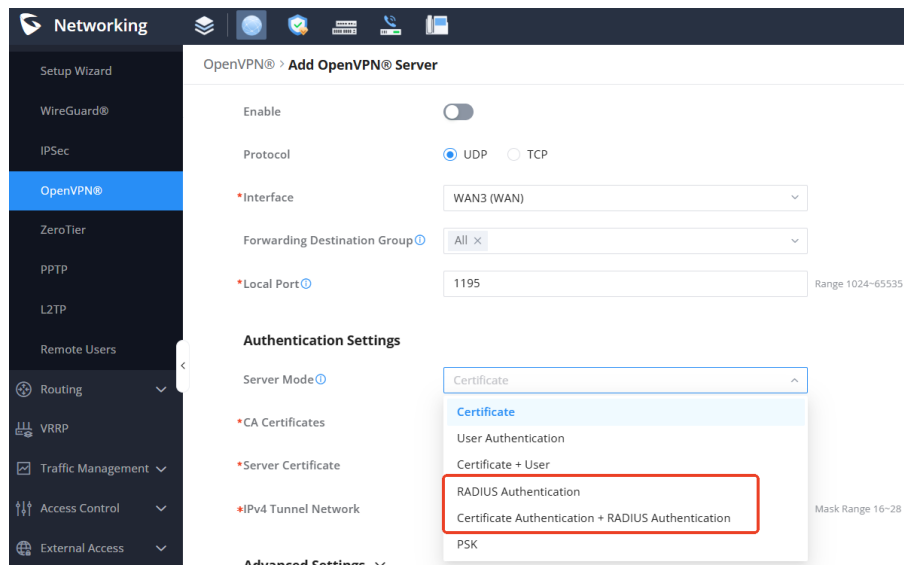
- **VPN:**

- Added feature of **ZeroTier** VPN



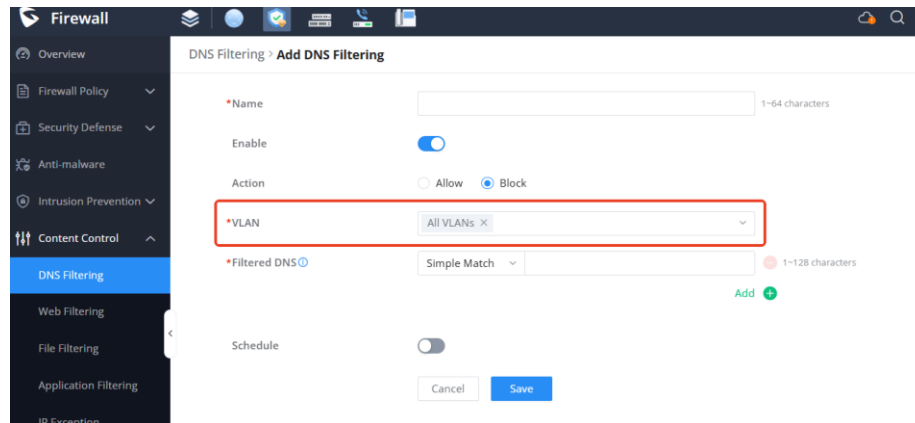
- Added **Setup Wizard** of ZeroTier

- Added feature of RADIUS authentication for **OpenVPN®**



- **External Access** → **DDNS:** Added support for custom service providers
- **System Settings** → **File Sharing:** Added support of microSD and SSD external device
- **Firewall**
 - **Content Control**
 - **DNS Filtering:**

- Added VLAN configuration for web filtering and application filtering



Firewall

DNS Filtering > Add DNS Filtering

*Name 1-64 characters

Enable ☒

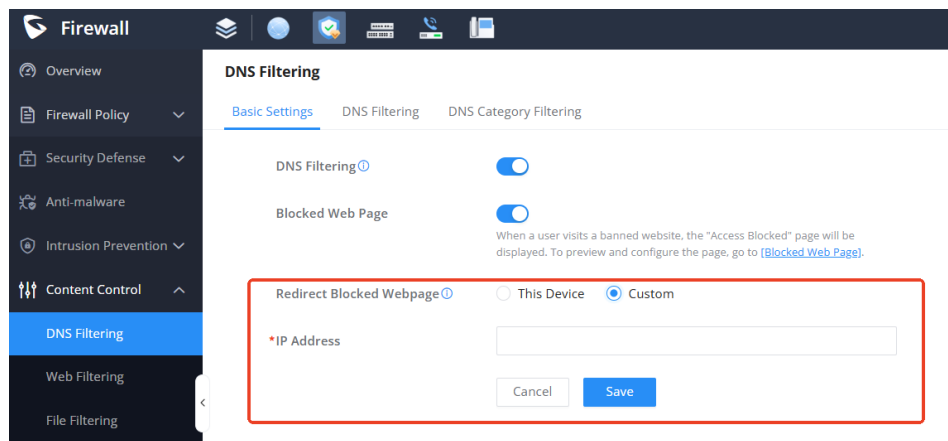
Action ☐ Allow ☒ Block

*VLAN

*Filtered DNS 1-128 characters Add +

Schedule ☐

- Added DNS Filtering configuration and Redirect Blocked Webpage configuration



Firewall

DNS Filtering

Basic Settings DNS Filtering DNS Category Filtering

DNS Filtering ☒

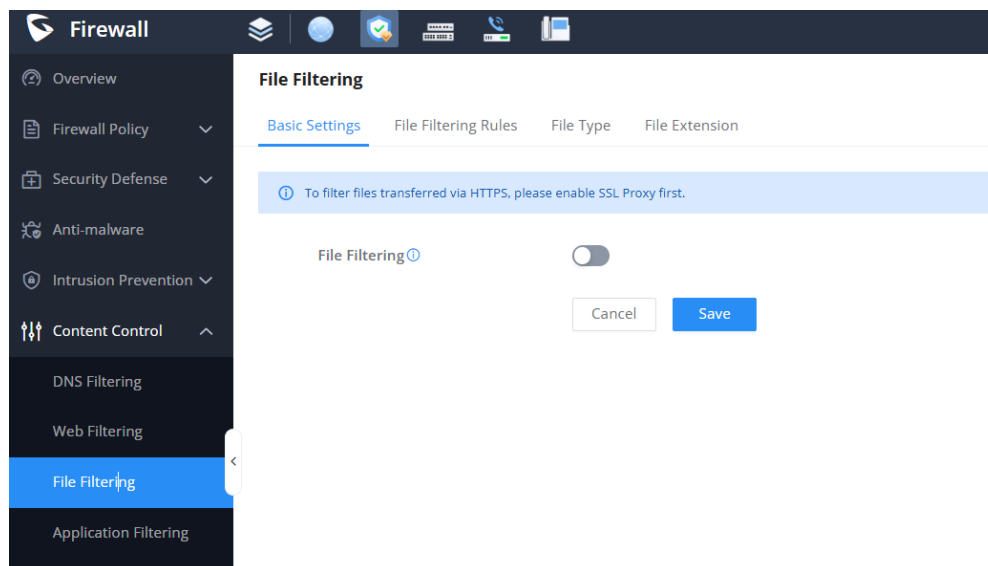
Blocked Web Page ☒

When a user visits a banned website, the "Access Blocked" page will be displayed. To preview and configure the page, go to [Blocked Web Page](#).

Redirect Blocked Webpage ☐ This Device ☒ Custom

*IP Address

- Added new feature of File filtering



Firewall

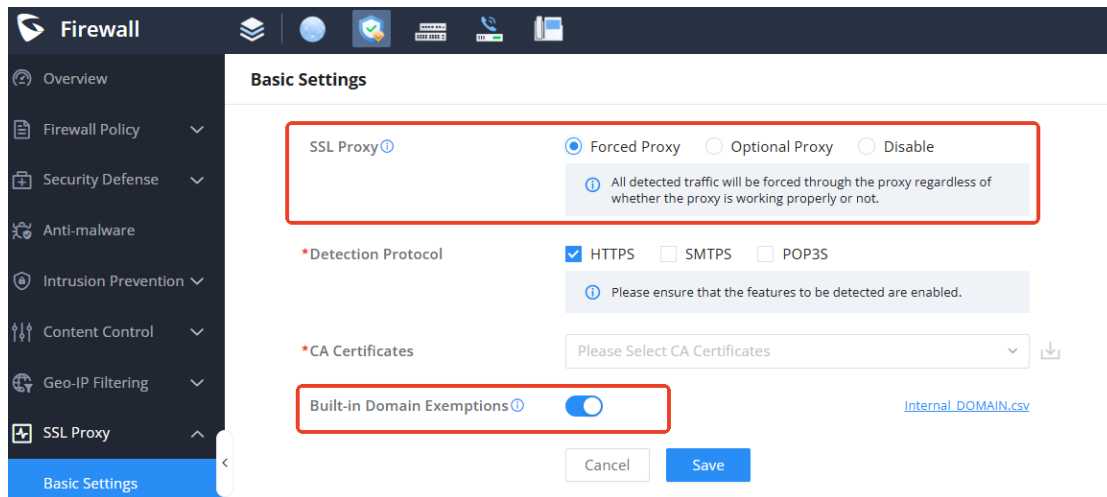
File Filtering

Basic Settings File Filtering Rules File Type File Extension

To filter files transferred via HTTPS, please enable SSL Proxy first.

File Filtering ☐

- **SSL Proxy → Basic Settings:** Added **Forced Proxy** and **Optional Proxy** configurations, and added **Built-in Domain Exemptions**



- **Security Log:** Added filter of **Firewall Policy**
- **Network Nodes**
 - **AP Management:** Added support for GWN767x models
 - **Switch Management:** Added support for GWN771x and GWN782x models
 - **Wi-Fi Management → SSIDs:** Changed the bandwidth limits for "Maximum Upstream Bandwidth" and "Maximum Downstream Bandwidth" to 1-10240 Mbps

BUG FIXING

- Fixed a bug that causes device unable to route traffic between OpenVPN® server and OpenVPN® client.
- Fixed a bug that IPS incorrect trigger for Intrusion.
- Fixed an issue that Wireguard VPN cannot handle Domains for Endpoint address.

FIRMWARE VERSION 1.0.7.14 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

8/6/2025

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: e4fb5f65bd96bf348bb8e035ae84cabf

CHANGES/ENHANCEMENT

- *Fixed a constant rebooting issue introduced on 8/2/2025 by virus signature lib update.

**Note: Do not need to upgrade this firmware if the unit was not affected by 8/4/2025.*

FIRMWARE VERSION 1.0.7.10 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

5/23/2025

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 41b1247288692db35096c26aea1e8686
- GCC601x complete firmware file name: gcc601xfullyfw.bin (Supported only starting from 1.0.3.5)
MD5 checksum: 4fe23131df1d756fcd47afafa7ddf77a
(Including SYS 1.0.7.10 + PBX 1.0.27.47)

CHANGES/ENHANCEMENT

- Internal bug fixes.

FIRMWARE VERSION 1.0.7.5 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

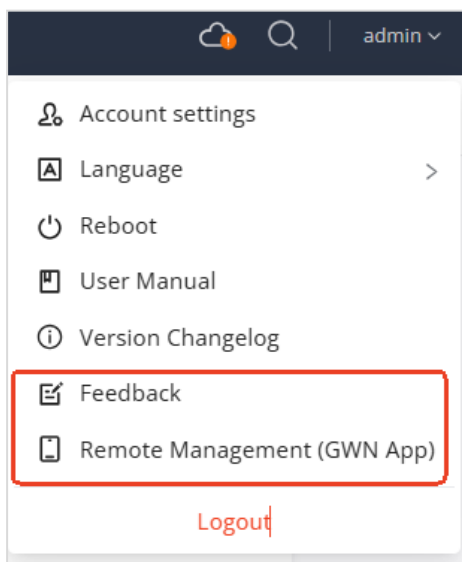
4/21/2025

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 125a3a460e8a392fde12a5e4a93c9bc9
- GCC601x complete firmware file name: gcc601xfullyfw.bin (Supported only starting from 1.0.3.5)
MD5 checksum: f807833711e7378a28c2538e20a14da2
(Including SYS 1.0.7.5 + PBX 1.0.27.44)

CHANGES/ENHANCEMENT

- **Home**
 - Added **Feedback** and **Remote Management (GWN App)** in the top bar admin dropdown menu.



- Added **Real-time Session Statistics**, **Firewall service**, and **PBX** information in **Overview**.
- Added VLAN configuration when enabling **PBX** module.
- System Settings
 - o Basic Settings
 - Fixed Asuncion time zone to UTC-3
 - Fixed Kazakhstan Almaty time zone to UTC+5
 - Added settings for multiple NTP server
 - Changed default time zone to UTC+00:00 Etc/Universal, country to Spain
 - o Security Settings
 - Added **Multi-Factor Authentication** for **Accounts Settings**

Security Settings			
Account Settings	Web Access	SSH Access	Remote Access without Password
Username	admin		
Password Modify		
Email	44li@grandstream.cn Modify		
Mobile Number	.. Modify		
Multi-Factor Authentication ⓘ	Disable Multi-Factor Authentication Instructions Modify		

- Added **Allowed IP Addresses** settings in **Web Access**
 - o Schedule
 - Added a button of **Reference Details**, from which user can check to where the schedule is applied
- Maintenance
 - o Upgrade
 - Added a factory reset prompt when downgrading to an incompatible firmware
- Log & Disgnostics
 - o Added **Core Files** retrieval

- **Networking**

- **Network Settings:**

- **WAN**

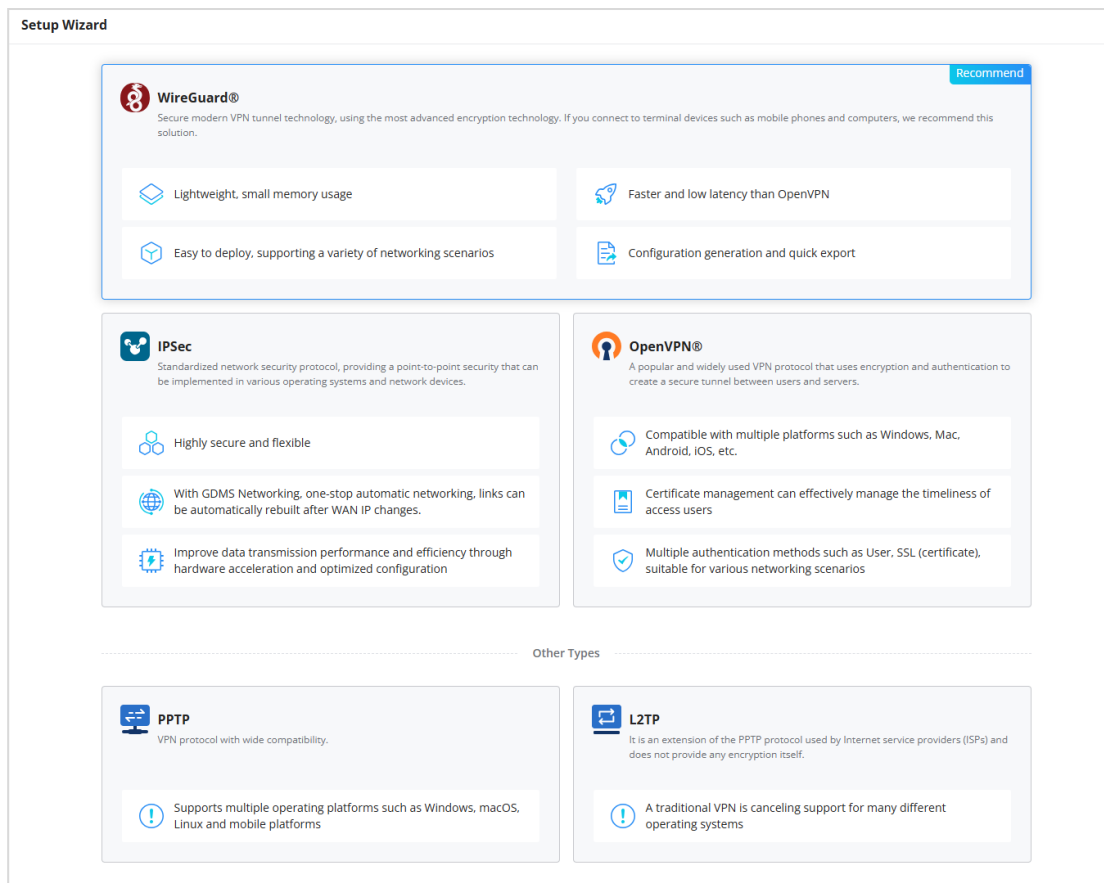
- Added **Bridge Mode**
 - Optimized the **Tracking IP** feature

- **LAN**

- Optimized the Static IP Binding settings

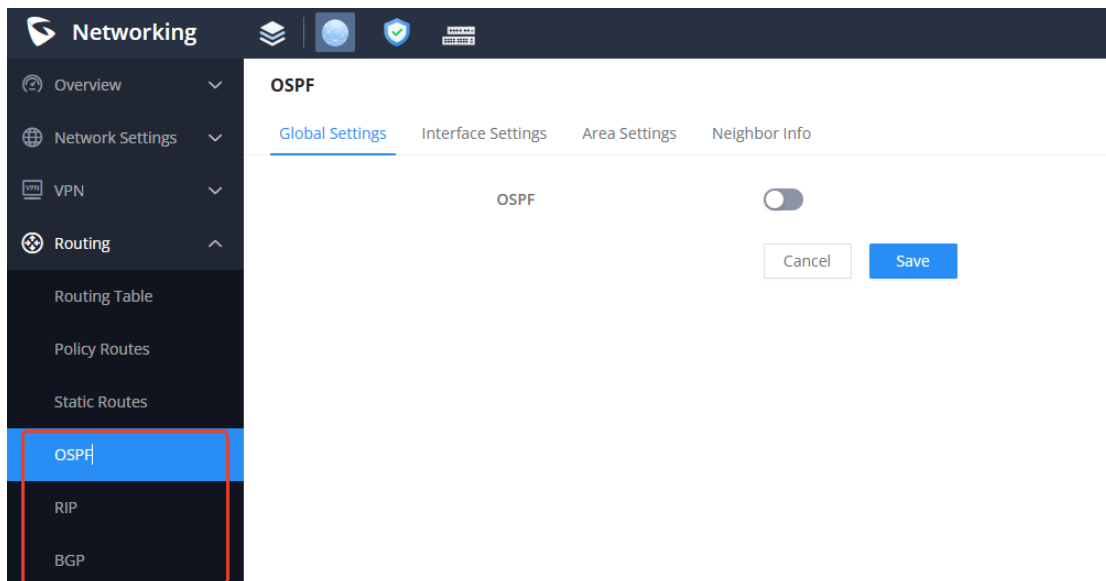
- **VPN**

- Added **Setup Wizard** for **WireGuard®**, **IPsec**, **OpenVPN®**, **PPTP** and **L2TP**



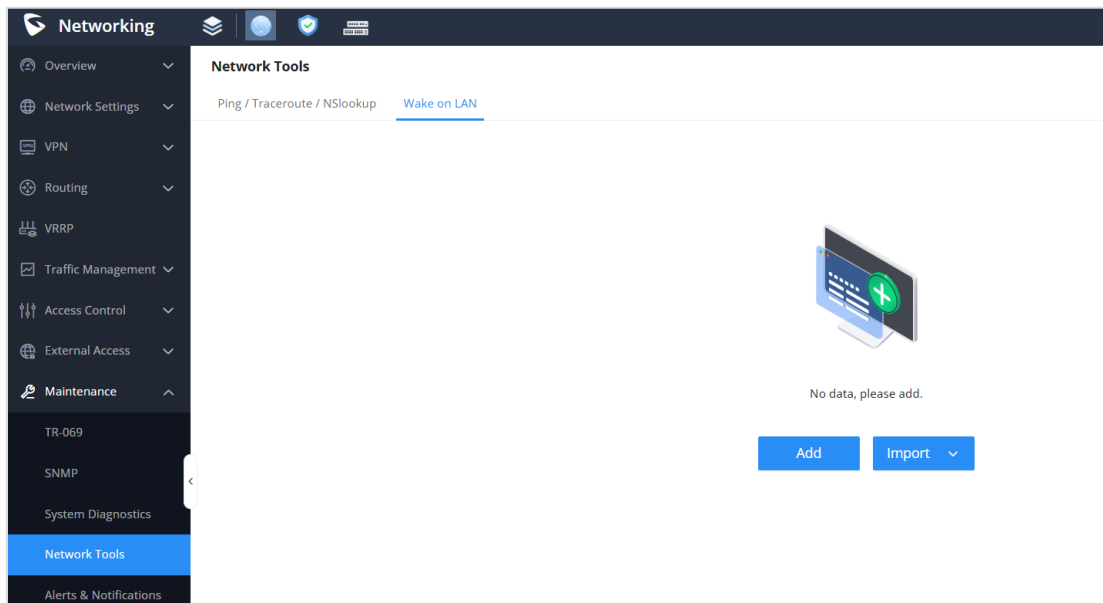
- Optimized UI configurations and added configuration guide link for **WireGuard®**, **IPsec**, **OpenVPN®**, **PPTP** and **L2TP**

- Added **Remote Clients** information list for **WireGuard®**
 - Added support of domains for the Endpoint address on **WireGuard®**.
 - Added Site-to-Site connection status to **IPsec**
 - Added column of **IP Address** and **Tunnel IP** to client list under **OpenVPN®** and **PPTP Servers**
 - Added support of **IPSec Encryption** to **L2TP** server.
 - Added support for users to manually adjust the MTU and MSS values for IPsec connections.
 - Added support of exporting client .ovpn file for **OpenVPN® Clients**
 - Optimized the logic that when a WAN interface is deleted, the dependent VPN will not be removed but set to disable instead.
- Routing
 - Added the **Routing Table** page
 - Optimized the UI configuration of **Static Routes** and **Policy Routes**
 - Added configuration pages for **OSPF**, **RIP**, and **BGP**

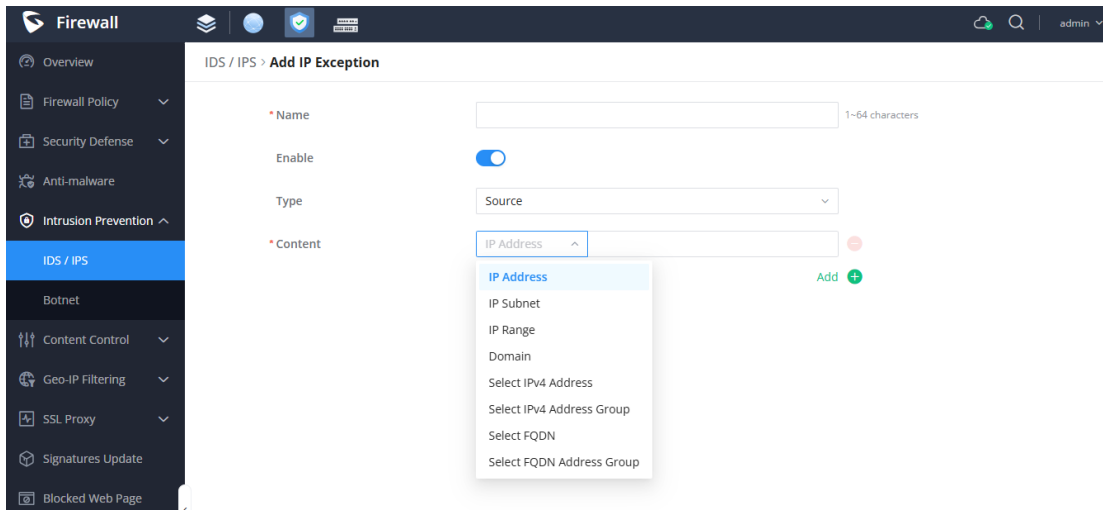


- Traffic Management
 - Added **Statistic by IP address** under **Traffic Statistics** → **Basic Settings**
- External Access
 - Added configurations of **IP Source** and **Update Interval (Min)** to **DDNS**

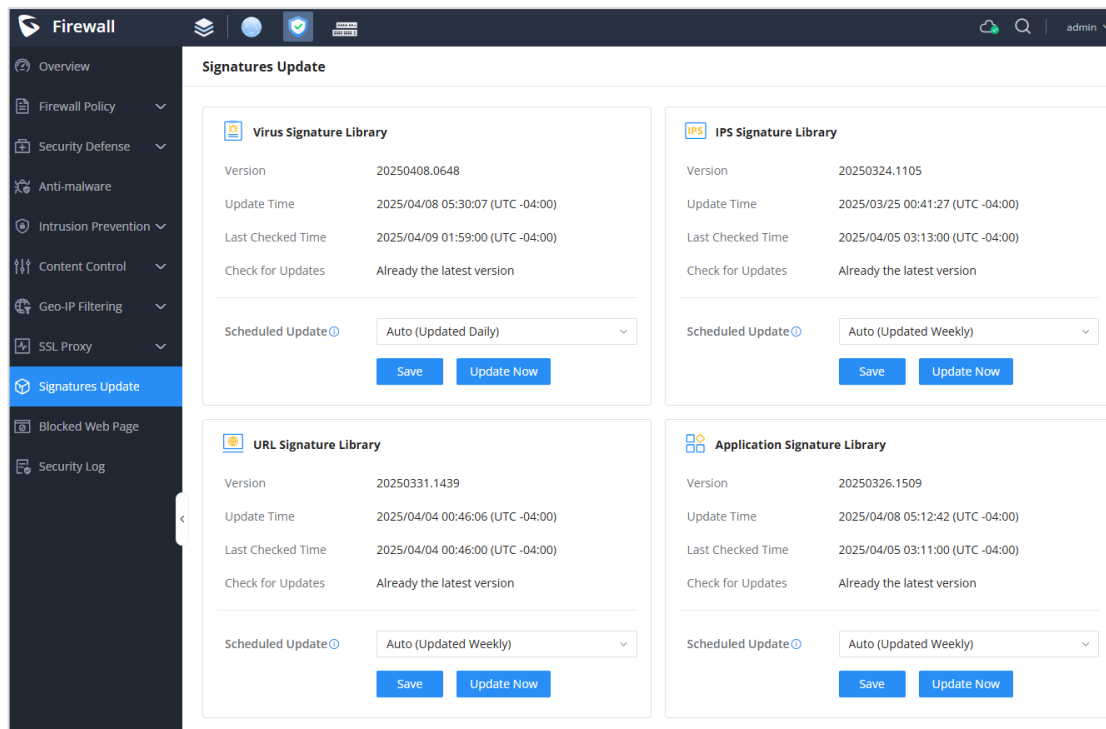
- Added the **Clone** feature to **Port Forwarding** rules
- **Maintenance**
 - Added an input restrictions to TR-069 ACS Username and Password.
 - From **System Diagnostics**, moved **Ping/Traceroute** to **Maintenance** → **Network Tools**, and **Core File** to **Home** → **Logs & Diagnosticse**
 - Added a feature of **Local Logs** download under **Syslog**
 - Added features of **NSlookup** and **Wake on LAN** under **Network Tools**



- Optimized the UI for **Alerts & Notifications** page
- **System Settings**
 - Added **Email Settings**
 - Moved **RADIUS, Certificates** to **Profiles**
- **Added Profiles**
 - Added support of **MAC Group, IP Address Group, FQDN, RADIUS, Certificates**
- **Firewall**
 - Added support of **Profiles** of **IP Address Group** and **FQDN** group to DoS Exception, IPS Exception, Bonet Exception, Content Control Exception, SSL Proxy Exception, SSL Proxy source address, Geo-IP Exception.

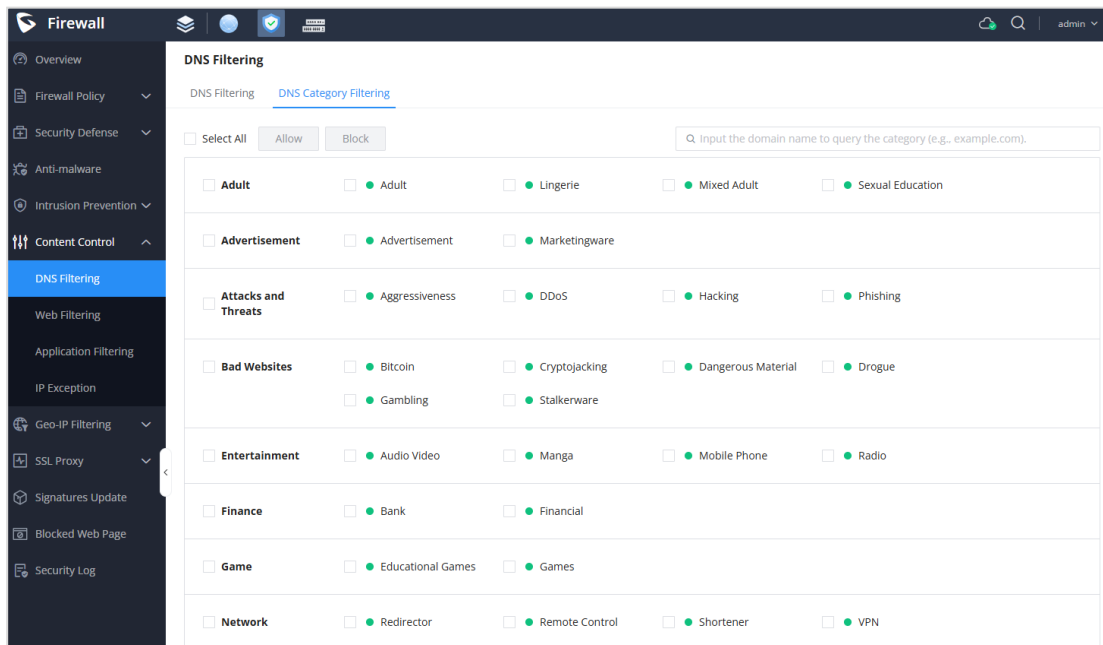


- Overview
 - o Added **App Category** for **APP Filtering** in **Top Security Log**
 - o Added **Refresh** button for **Firewall Service** plan
- Firewall Policy
 - o Added the feature of **Schedule** for **Traffic Rules**
 - o Added **Clone** button for **Traffic Rules** and Advanced NAT
- Added **Signatures Update** to manage all related Firewall module's signature libraries.

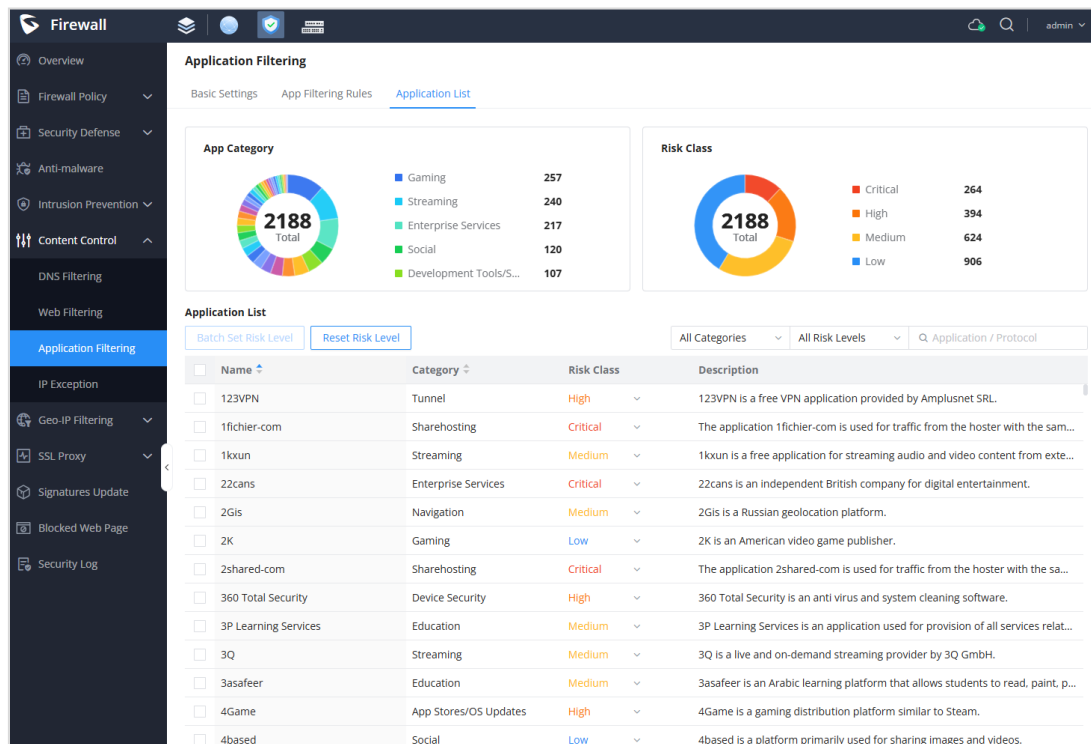


- Content Control

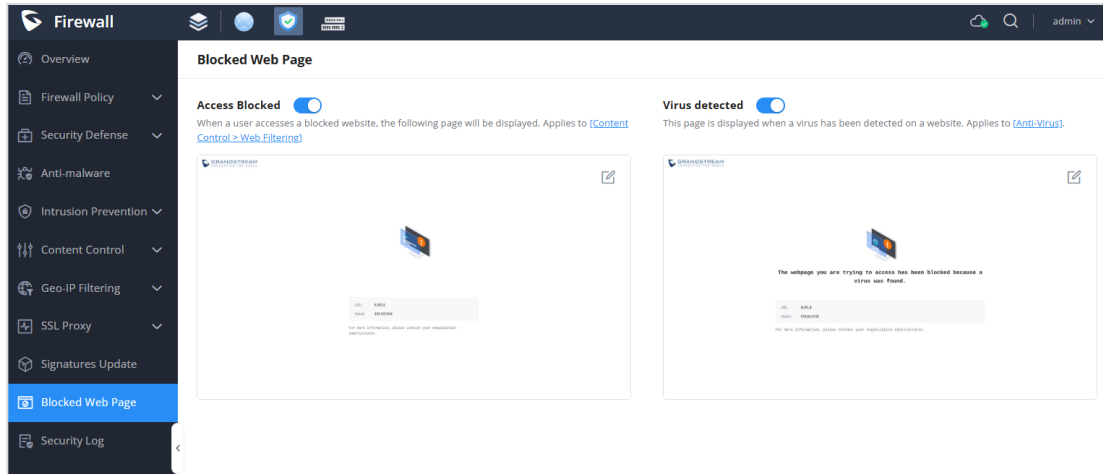
o Added **DNS Category Filtering** under **DNS Filtering**



o Optimized the **Application Filtering Rules** and **Application List** interface UI, and added **Network Protocol** and **Unknown Applications** categories



- Added **Blocked Web Page** to self-define the landing page for **Access Blocked** and **Virus detected**



- Security Log
 - o Added **Details** for **DoS & Spoofing** and **Application Filtering**
 - o Added support of **Export All** logs
 - o Added **DNS Filtering Risk Level Settings** to **Log Level** and **Email Notification**

• Network Nodes

- Added support of **VLAN ID** configuration to **Wi-Fi Management** → **PPSK**
- Added support of **Captive Portal** to wired clients
- Added **Bypass Splash Page** to **Captive Portal** → **Policy**

DNS Filtering Risk Level Settings ✕

▲ Block	<input checked="" type="radio"/> Critical	<input type="radio"/> High	<input type="radio"/> Medium	<input type="radio"/> Low
Blocked DNS	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

▲ Adult	<input type="radio"/> Critical	<input type="radio"/> High	<input checked="" type="radio"/> Medium	<input type="radio"/> Low
Adult	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Lingerie	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Mixed Adult	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Sexual Education	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

▲ Advertisement	<input type="radio"/> Critical	<input type="radio"/> High	<input type="radio"/> Medium	<input checked="" type="radio"/> Low
Advertisement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Marketingware	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

▲ Attacks and Threats	<input checked="" type="radio"/> Critical	<input type="radio"/> High	<input type="radio"/> Medium	<input type="radio"/> Low
Aggressiveness	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DDoS	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hacking	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Phishing	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

▲ Bad Websites	<input checked="" type="radio"/> Critical	<input type="radio"/> High	<input type="radio"/> Medium	<input type="radio"/> Low
Bitcoin	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Cancel
Save

- Fixed a bug where UC endpoints could not detect VoIP devices on the WAN side.
- Fixed a bug that caused VPN configurations to be erased when the WAN connection was disabled or deleted.
- Fixed a bug that character "-" cannot be used in the special characters list for certificate names.
- Fixed a bug that Daylight Saving Time was applied in the Asuncion/Paraguay time zone.
- Fixed a bug of /31 subnet mask support.
- Fixed a bug that caused intermittent disconnections with IPSec VPN.

FIRMWARE VERSION 1.0.5.11 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

1/13/2025

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 6f06b8ba6b41fa9c7ca704b5b68fce3e
- GCC601x complete firmware file name: gcc601xfullyfw.bin (Supported only starting from 1.0.3.5)
MD5 checksum: 39c3816a7734cfd4c9aa94f1228a83cd
(Including SYS 1.0.5.11 + PBX 1.0.27.17)

CHANGES/ENHANCEMENT

- Internal bug fixes

FIRMWARE VERSION 1.0.5.6 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

12/6/2024

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 0815d1f0a1e272e6d3b6b0216aedb870
- GCC601x complete firmware file name: gcc601xfullyfw.bin (Supported only starting from 1.0.3.5)
MD5 checksum: 1b19dcb30ead367939324922dbe85d20
(Including SYS 1.0.5.6 + PBX 1.0.27.14)

CHANGES/ENHANCEMENT

- [Home] Added Operation Log page.
- [Home] Added the ability to schedule regular backups under the *Maintenance* → *Backup & Restore* page.
- [Home] Added support for MTA email method.
- [Networking] Added support for load balancing strategies under the *Routing* → *Policy Routes* page.
- [Networking] Added support for VRRP.
- [Networking] VPN settings are now retained after closing VPN.
- [Networking] DNS filtering now supports filtering by SNI and common name in the certificate.
- [Networking] IPSec is now limited to 64 tunnels.
- [Networking] Added support for connection speed test with GWN Cloud.
- [Networking] Added support for receiving PPSK configurations from GWN Cloud.
- [Firewall] Added ability to configure outbound traffic rules under the *Firewall Policy* → *Traffic Rules* page.

- [Firewall] IDS/IPS detection settings will now be applied to all WAN interfaces. Interfaces can no longer be excluded.
- [Firewall] Added support for SMTP(S) and POP3(S) detection protocols.
- [Firewall] Added support for importing and exporting SSL proxy exemption lists.
- [Firewall] Added ability to schedule the automatic turning on/off of DNS filtering, web filtering, and application filtering.
- [Firewall] Added support for Geo-IP filtering.
- [Firewall] SSL exemption list now supports wildcard input.
- [Firewall] Added security log risk levels and corresponding filters.
- [Firewall] Added *Application List* tab to the [Application Filtering] section. This page will show a list of all monitored applications and their corresponding risk levels.
- [Network Nodes] Added support for 6GHz band in the SSID, Radio, and Mesh settings.
- [UC Endpoints] Fast Provision will now also include the PBX module's local LDAP phonebook information.
- Several bug fixes.

FIRMWARE VERSION 1.0.3.6 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

10/8/2024

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 25957d6a84dd13b2976c6d08ae386221
- GCC601x complete firmware file name: gcc601xfullyfw.bin (Supported only starting from 1.0.3.5)
MD5 checksum: dd0e37ef081abf11ea56151029724fc0
(Including SYS 1.0.3.6 + PBX 1.0.25.41)

CHANGES/ENHANCEMENT

- [Home] Fixed an issue that offline device disappears from Network Topology
- [Networking] Fixed an issue that on GCC6010 SFP1 only supports maximum 1G bandwidth. Now it opens to 2.5G.
- Internal bug fixes.

FIRMWARE VERSION 1.0.3.5 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

9/20/2024

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: bbcd081cb648443fd7e9cac33e5ff333
- GCC601x complete firmware file name: gcc601xfullyfw.bin (Supported only starting from 1.0.3.5)
MD5 checksum: 89d6b124242b06bf2e82790b5929a0fc
(Including SYS 1.0.3.5 + PBX 1.0.25.40)

CHANGES/ENHANCEMENT

- [Home] Added support for formatting M.2 SSD
- [Home] Added support of **Real-time Session Statistics** in Overview page
- [Home] Added support of **Show Offline Device** in Topology page
- [Home] Added configuration of **Redirect from Port 80** in System Settings → Security Settings → Web Access
- [Home] Added support of complete firmware upgrade to upgrade both System and PBX firmware by one .bin file
- [Home] Fixed the bug that prompts “internal error” when performing “Detect New Version” in firmware Upgrade
- [Networking] Allowed same VLAN ID configuration on different WANs
- [Networking] Changed IPv6 MTU minimum value to 1280
- [Networking] Added **WAN Port MAC address** configuration

- [Networking] Added **Blackhole** option for Static Routes → Outgoing Interface
- [Networking] Added **PBX Service** configurations for Traffic Management → QoS → VoIP Settings
- [Networking] Added support of batch delete to Maintenance → System Diagnostics → Core File
- [Networking] Added support of saving capture on attached storage under Maintenance → System Diagnostics → Capture
- [Networking] Added **Takeover / Un-Takeover Switch Alert** option into Maintenance → Alerts & Notifications → E-mail Notification Settings
- [Networking] Fixed the bug that WAN related configurations are deleted when disabling WAN
- [Networking] Enforced minimum 1 LAN port when disabling Port under Network Settings → Port Configuration
- [Networking] Supported exporting pem format certificate in System Settings → Certificates
- [Firewall] Added support of **Static ARP List** under Security Defense → ARP Protection
- [Firewall] Moved Spoofing Defense from DoS Defense to ARP Protection
- [Firewall] Added support of **IP Exception** to Content Control
- [Firewall] Added search feature in Content Control → Application Filtering → App Filtering Rules
- [Firewall] UI optimization
- Internal bug fixes.

FIRMWARE VERSION 1.0.1.34 (SYS)

PRODUCT NAME

GCC6010, GCC6010W, GCC6011

DATE

8/21/2024

FIRMWARE FILE INFORMATION

- GCC601x system firmware file name: gcc601xfw.bin
MD5 checksum: 2736f9bd5a51e24e53857546887a22ec

CHANGES/ENHANCEMENT

- Added support of new models, GCC6010W, GCC6011
- Blocked system firmware downgrade to any older version
- Internal bug fixes.

FIRMWARE VERSION 1.0.1.32 (SYS)

PRODUCT NAME

GCC6010

DATE

7/26/2024

FIRMWARE FILE INFORMATION

- GCC6010 system firmware file name: gcc601xfw.bin
MD5 checksum: 3b6810c23b4ee941c534649ef84d41ea

CHANGES/ENHANCEMENT

- Resolved the Tiktok Live streaming issue when Antivirus is enabled.
- Changed the default value from Enable to Disable for **“Allow DHCP Option 43 and 66 to Override Server”** and **“Check/Download New Firmware at Bootup”**. Upon upgrade from older version, these two options will be disabled, please re-enable it if needed.
- Changed the default value from 10sec to 300sec for all **Flood Attack Defense** timeout settings.
- Changed the default action to **Drop** for WAN **Inbound Rules** under **Firewall Policy**.
- Updated the DPI library, latest library is not compatible with SYS version lower than 1.0.1.32.
- Updated the IPS, URL, and Antivirus signature library.
- Internal bug fixes.

FIRMWARE VERSION 1.0.1.10 (SYS)

PRODUCT NAME

GCC6010

DATE

6/28/2024

FIRMWARE FILE INFORMATION

- GCC6010 system firmware file name: gcc601xfw.bin
MD5 checksum: c3b812966176a904282000ab622f3011

CHANGES/ENHANCEMENT

- Disable **Check/Download New Firmware at Bootup** by default.
- Internal bug fixes.

FIRMWARE VERSION 1.0.1.8 (SYS)

PRODUCT NAME

GCC6010

DATE

6/4/2024

FIRMWARE FILE INFORMATION

- GCC6010 system firmware file name: gcc601xfw.bin
MD5 checksum: 0294ea7965254b2e99d10a5399bfd05b

CHANGES/ENHANCEMENT

- This is the initial release of GCC6010 system firmware.