

# Grandstream Networks, Inc.

## GCC6020 Series

User Manual - Home



The **GCC6020 Series** is an advanced all-in-one solution that unifies communication, networking, and security capabilities into a single, powerful platform. It integrates the functionality of four distinct systems **VPN router**, **next-generation firewall**, **IPPBX**, and **network switch** to deliver enterprise-grade performance in a compact, centrally managed appliance.

With the GCC6020 and GCC6021 models, businesses can deploy and manage wired, wireless, and VPN networks while benefiting from deep security protections such as DPI, SSL inspection, and IDS/IPS. These devices offer built-in IP PBX functionality for seamless voice and video collaboration, and support for encrypted traffic, secure boot, and high-availability deployment.

The platform supports unified management of Grandstream access points, switches, and UC endpoints through the **Grandstream Device Management System (GDMS)**, **GWN mobile app**, **local web UI**, **SSH**, **SNMP**, and **CLI** making it easy to provision and maintain an integrated network.

Ideal for **small-to-medium sized businesses**, the GCC602x series simplifies deployment and reduces costs by consolidating business data, security, communication, and collaboration into one cohesive system.

The GCC6020 series combines the following modules:

- Home
- Networking
- o Firewall
- Network Nodes
- o PBX
- UC Endpoints

## **PRODUCT OVERVIEW**

## **Technical Specifications**

The following table resume all the technical specifications including the hardware and the software specifications.

Field	GCC6020	GCC6021
Network Ports	1× 10 Gigabit SFP+ ports     1× 2.5 Gigabit Ethernet ports     4× Gigabit Ethernet ports     *All ports are WAN/LAN configurable, max 3× WAN	• 4× 10 Gigabit SFP+ ports • 8× 2.5 Gigabit Ethernet ports • 16× Gigabit Ethernet ports *WAN/LAN is configurable, max 5× WAN
Auxiliary Ports	• 1× CONSOLE • 1× USB 3.0	• 1× CONSOLE • 1× USB 3.0 • 2× HA • 1× MGMT
Memory	4GB RAM, 32GB eMMC	4GB DDR4+256MB DDR3 RAM, 32GB eMMC, 128MB NAND
External Storage	M.2 SSD	
Routing	6.5Gbps	10Gbps
IPSec VPN Throughput	1.3Gbps	
NAT Sessions		320K
NGFW Throughput (DPI+IPS)	6Gbps	9Gbps

PBX		grades available for purchase: (See more for PBX capacity grade options)
Mounting	Desktop, Wall, and Rack-mountable	Desktop and Rack-mountable
Material	Metal	
LEDs	1× LED for SFP+, 5× LED(G/Y) for Ethernet Ports, 5× LED(Y) for PoE Out, 1× LED(R/G/B) for device tracking and status indication, 1× LED for main power, 1× LED for Redundant Power System	24× LED(G/Y) for Ethernet Ports/PoE Out, 4× LED for SFP+, 2× LED for HA, 1× LED(R/G/B) for device tracking and status indication, 1× LED for main power, 1× LED for Redundant Power System
Connection Type	DHCP, Static IP, PPPoE	
Network Protocols	IPv4, IPv6, IEEE802.1q, IEEE 802.1p, IEEE802.1x, IEEE802.3, IEEE 802.3u, IEEE802.3ab	
QoS	<ul> <li>VLAN, TOS</li> <li>Support multiple traffic classes, filter by port, IP address, DSCP, and policing</li> <li>App QoS: Application/protocol monitoring and traffic statistics</li> <li>VoIP Prioritization</li> </ul>	
Firewall	<ul> <li>DDNS, Port Forwarding, DMZ, UPnP, DoS &amp; Spoofing defense, traffic rules, NAT</li> <li>DPI, Anti-Virus, IPS/IDS, SSL Proxy</li> <li>Content Control: DNS filtering, web url/class/key words filtering, application identification and control</li> <li>Email Security, Geo-IP filtering</li> </ul>	
VPN	IPSec VPN Client-to-Site / Site-to-Site  IPSec Encryption: 3DES, AES  IPSec Authentication: MD5, SHA-1, SHA2-256  Key Exchange: Main/Aggressive Mode, Pre-shared Key, DH Groups 1/2/5/14  IPSec Protocols: ESP  IPSec NAT Traversal  PPTP VPN Server / Client  PPTP Encryption: MPPE 40-bit, 128-bit  PPTP/L2TP Authentication: MS-CHAPv1/2  L2TP  OpenVPN® Server / Client  OpenVPN® Encryption: AES, DES  OpenVPN® Authentication: MD5, SHA-1, SHA2-256, SHA2-384, SHA2-512  OpenVPN® Certificate: RSA  WireGuard®	
Network Management	Grandstream Device Management System (GDMS), GWN App, Local Web GUI, SSH, SNMP (v1/v2c/v3) and CLI	
Max AP/Clients	Up to 300 GWN APs; Up to 500 Clients	Up to 300 GWN APs; Up to 1000 Clients
Power and Green Energy Efficiency	Universal power adaptor included: Input 100- 240VAC 50-60Hz Output: 54VDC/2.8A (150W); 5× PoE out ports support IEEE802.3af/at, Maximum PoE Wattage: 120W RPS Input: 54VDC/2.8A	Universal power adaptor included: Input 100-240VAC 50-60Hz Output: 54VDC/7.8A (420W); 8× PoE out ports support IEEE802.3 af/at/bt, 16× PoE out ports support IEEE 802.3 af/at, Maximum PoE Wattage: 370W RPS Input: 54VDC/7.8A
Environmental	Operation: 0°C to 45°C Storage: -10°C to 60°C Humidity: 5% to 95% Non-condensing	
Physical	Unit Dimension: 280 x 185.5 x 44 mm Unit Weight: 1.5KG Entire Package Dimension: 384 x 209.5 x 60 mm Entire Package Weight: 2.1KG	Unit Dimension: 440 x 301.5 x 44mm Unit Weight: 4.2KG Entire Package Dimension: 557 x 413 x 138mm Entire Package Weight: 5.6KG
Package Content	GCC6020/GCC6021, Universal Power Supply, Rack mount kit, Quick Installation Guide	

Compliance	FCC, CE, RCM, IC
I	

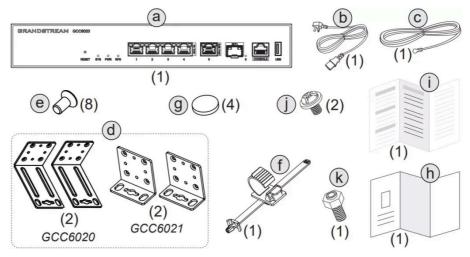
GCC6020 technical specifications

## **INSTALLATION**

Before deploying and configuring the GCC6020 device, the device needs to be properly powered up and connected to the network. This section describes detailed information on the installation, connection, and warranty policy of the GCC6020 device.

## **Package Contents**

The GCC6020/GCC6021 package includes the following components:



Package Contents

#### Note:

Bracket style and screw placement may differ depending on whether the device is GCC6020 or GCC6021.

Label	Quantity	Item
a	1×	Main Unit (GCC6020 or GCC6021)
b	1×	Power Cable
c	1×	Grounding Cable
d	2×	Rack Mount Brackets (model-specific)
e	8×	Rack Mounting Screws
f	1×	Power Cord Anti-Trip
g	4×	Rubber Feet
h	1×	Regulatory Information
i	1×	Quick Installation Guide
j	2×	M.2 SSD Screws (top)
k	1×	M.2 SSD Securing Screw (bottom)

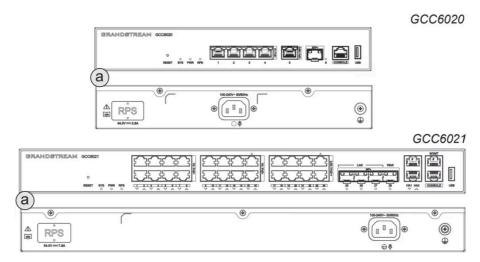
#### **Hardware Overview**

The GCC6020 and GCC6021 feature front and rear panels with multiple Ethernet, SFP, USB, and management ports. The exact port layout varies depending on the model.

Each unit includes a standard AC power input and a Redundant Power Supply (RPS) port on the back panel. LED indicators on the front help monitor power, connectivity, and system status.

#### Note:

Check the label on your device to identify the exact port configuration.



Hardware Overview

## **Powering the Device**

Follow the steps below to properly power the GCC6020/GCC6021:

## 1. Ground the Device

Attach the grounding cable (c) to the grounding point (a) on the rear panel to prevent electrical surges.

#### 2. Secure the Power Cable

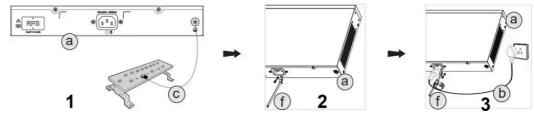
Install the power cord Anti-Trip (f) onto the power socket. This helps prevent accidental unplugging or cable strain.

#### 3. Connect the Power Cable

Plug the power cable (b) into the device, then wrap the Power Cord Anti-Trip (f) around it as shown before connecting to a power outlet.

#### Note:

Optionally, connect a backup power source to the RPS port for redundancy.



Powering the Device

## **Rack Mount Installation**

To mount the device into a standard 19" rack:

#### 1. Attach the Rack Brackets

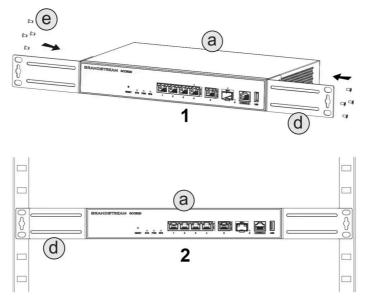
Secure the provided rack mount brackets (d) to both sides of the device (a) using the included screws (e).

## 2. Install the Unit into the Rack

Carefully align and slide the device into the rack, then secure the brackets to the rack frame.

#### Note:

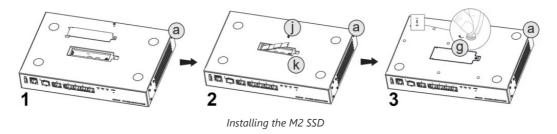
Ensure proper airflow around the device and avoid blocking the ventilation areas on the sides.



Rack Mount Installation

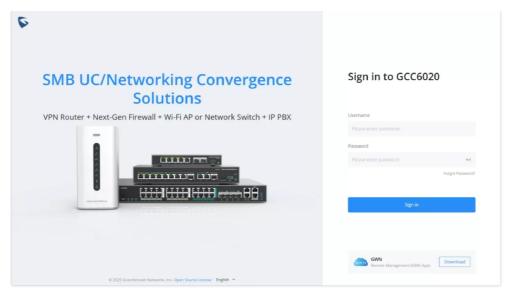
## Installing the M.2 SSD

- 1. **Access the SSD Slot:** Flip the device upside down to locate the SSD compartment (a). Remove the bottom SSD cover by unscrewing the pre-installed screw.
- 2. **Install the SSD:** Secure the standoff screw (k) in the appropriate mounting position. Insert the M.2 SSD module into the slot at an angle, then press it down flat. Fasten it using the hold-down screw (j) to secure the SSD in place.
- 3. Close the SSD Compartment: Reattach the metal cover and tighten the original screw to finish the installation.



#### **Notes:**

- $\circ \ \ \, \text{The default password information is printed on the MAC label at the bottom of the unit. The default username is "\textbf{admin}".}$
- $\circ \ \ \text{Ports with this symbol} \ \triangle \ \text{on the device are configured to be used as a WAN port by default at the factory}.$
- The default gateway is 192.168.80.1 (gcc.grandstream.com).



GCC6020 login page

## **Safety and Precautions**

- o Do not attempt to open, disassemble, or modify the device.
- o Do not expose this device to temperatures outside the range of 0 °C to 45 °C for operating and -10 °C to 60 °C for storage.
- Do not expose the device to environments outside of the following humidity range: 5-95% RH (non-condensing).
- Do not power cycle the device during system boot-up or firmware upgrade. You may corrupt firmware images and cause the unit to malfunction.
- Appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.

The GNU GPL license terms are incorporated into the device firmware and can be accessed via the Web user interface of the device at my\_device\_ip/gpl\_license. It can also be accessed here: https://www.grandstream.com/legal/open-source-software

To obtain a CD with GPL source code information please submit a written request to info@grandstream.com

#### **Safety Compliances**

The GCC6020 complies with FCC/CE and various safety standards. The GCC6020 power adapter is compliant with the UL standard. Use the universal power adapter provided with the GCC6020 package only. The manufacturer's warranty does not cover damages to the device caused by unsupported power adapters.

#### Warranty

If the GCC6020 device was purchased from a reseller, please contact the company where the device was purchased for replacement, repair, or refund. If the device was purchased directly from Grandstream, contact our Technical Support Team for an RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to remedy the warranty policy without prior notification.

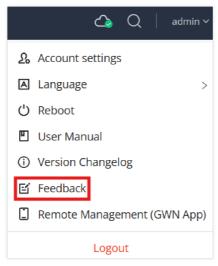
#### Warning

Use the power adapter provided with the GCC6020 device. Do not use a different power adapter as this may damage the device. This type of damage is not covered under warranty.

## **Getting Started**

## **Feedback**

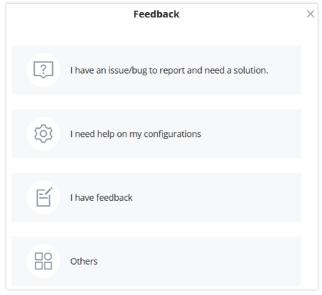
Users can submit feedback directly from the top navigation bar by clicking the **username** in the upper right corner and selecting **Feedback** from the dropdown menu.



Feedback

The feedback system provides four categories to choose from:

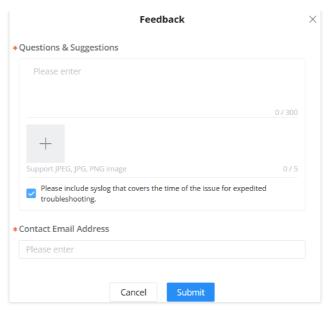
- o I have an issue/bug to report and need a solution
- I need help on my configurations
- o I have feedback
- Others



Feedback

The first two categories will redirect the user to the official help desk support page.

The last two options will open a feedback submission form, allowing users to:



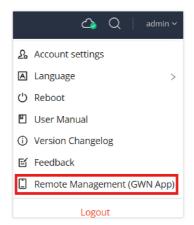
Feedback

- Write a message (up to 300 characters)
- o Upload up to 5 images (JPEG, JPG, PNG formats)
- o Enter a contact email address
- o Optionally include a syslog file to assist with issue diagnosis and troubleshooting

This categorized interface improves the user experience by streamlining support and suggestion handling within the Web UI.

## Remote Management (GWN App)

The Remote Management (GWN App) option is available from the user menu in the top-right corner of the interface.

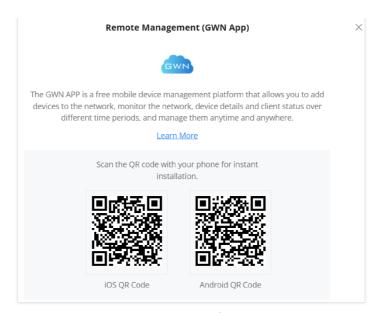


Remote Management GWN App

Clicking this option opens a QR code panel for downloading the GWN mobile app on iOS or Android.

The GWN App allows users to:

- Remotely manage devices
- o Monitor network and device performance
- o View client connection history
- o Access the network anytime from a mobile device



Remote Management GWN App

## **HOME**

#### **Overview**

The **Overview** section provides a snapshot of the device's current operational status and system modules. This includes detailed info such as hardware/software versions, system resource usage, licensing, and session statistics.

#### **Device Modules & Version Panel**

The top panel displays the five system modules supported by the GCC6000 series device:

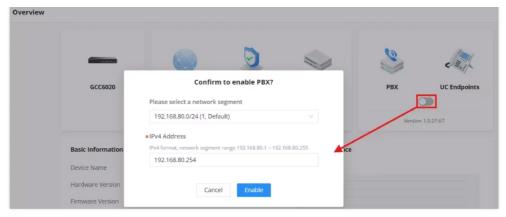
- Networking
- Firewall
- Network Nodes
- o PBX
- UC Endpoints



Device Modules Version Panel

PBX and UC Endpoints can be toggled ON/OFF depending on deployment needs. Disabling these modules may help conserve resources for networking functions.

When enabling PBX, users are prompted to assign a VLAN segment and specify an IPv4 address from the selected range.



Device Modules Version Panel

## **Device Info & System Performance**

This middle panel displays essential system details:

#### **Basic Information**

- o Device name, MAC, LAN/WAN IP, Part Number, Serial Number
- o Uptime and current system time

## **System Performance**

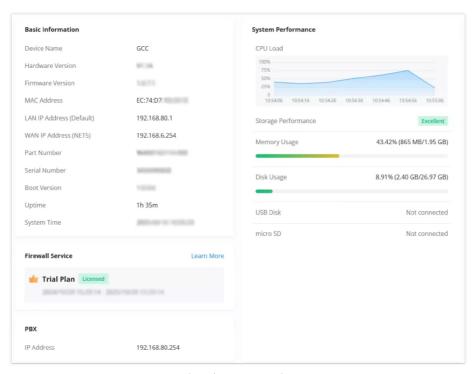
- o CPU load graph
- o Memory & disk usage
- USB and SD card status

#### **Firewall Service**

o Shows current license type and status

#### **PBX**

o Displays the current PBX IP address (if enabled)



Overview page part 2

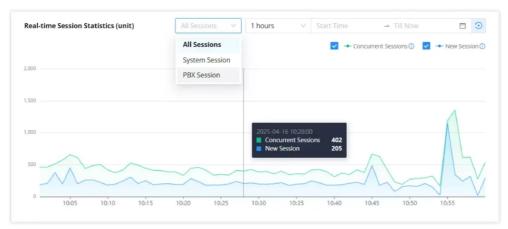
The final section shows a dynamic graph of active sessions in real time.



- o Filter by All Sessions, System Session, or PBX Session
- o Choose custom time duration (e.g. 1 hour, 12 hours, etc.)
- View session count by type:
  - Concurrent Sessions
  - New Sessions
- o Hover to reveal stats for any specific timestamp
- Use the ۞ icon to **reset** the data

#### Note:

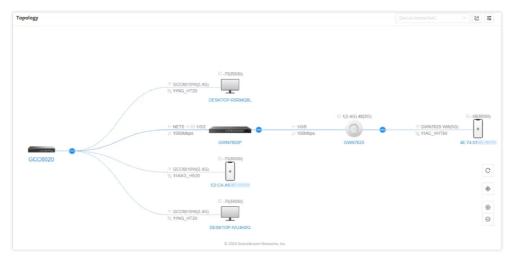
A session refers to a temporary connection or data exchange between devices like loading a webpage, making a call, or streaming data.



Overview page part 3

## **Topology**

In this section, the administrator can view the topology of the Grandstream networking device connected to the GCC device.



Topology

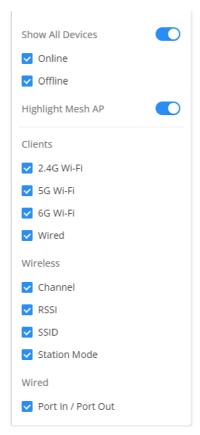
When clicking on the highlighted icon below, the user can view the device details and settings



Icon View



AP Details



Topology Filter

## **System Settings**

In this section, the user can configure settings related to the general operations of the device.

## **Basic Settings**

## **Basic Settings**

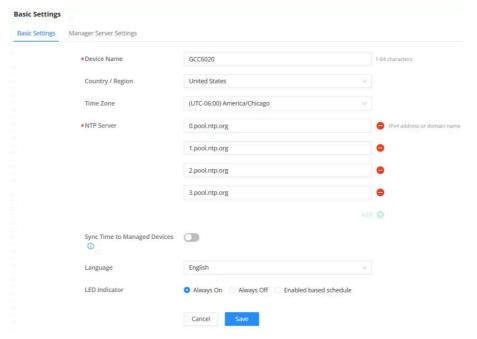
To configure the device's general parameters such as name, time zone, NTP server, and language:

- 1. Navigate to **System Settings** → **Basic Settings**.
- 2. Adjust the fields as needed.
- 3. Click **Save** to apply your changes.

#### Note:

After a factory reset, the default country is set to Spain and the time zone is set to UTC+00:00 (Etc/Universal).

For more details, refer to the figure and table below.



Basic Settings

Field	Description
Device Name	Sets a unique name to identify the device. Supports 1–64 characters.
Country / Region	Selects the country for localization settings (e.g., default time zones, UI language).
Time Zone	Defines the system time zone. Some locations (e.g., Asuncion, Almaty) use fixed UTC offsets and do not follow DST changes.
NTP Server	Primary server used to synchronize the system time. Enter a domain or IP address.
"+" Add NTP Server	Click the "+" icon to add additional NTP servers for redundancy — if one fails, others will be used as backup.
"-"Remove NTP Server	Click the "-" icon next to an entry to remove it.
Sync Time to Managed Devices	When enabled, the GCC device will push its NTP-configured time to all managed devices (like APs or switches) for unified time sync.
Language	Sets the web interface display language.
LED Indicator	Sets the device's LED behavior. Options include Always On, Always Off, or Enabled based on schedule.

Basic Settings



Manager Server Settings

## **Security Settings**

In this section, the user will be able to configure different security-related settings. These settings are mainly related to securing user access to the device either locally or remotely.

## **Account Settings**

This section allows administrators to manage essential login and security details for the web portal access of the GCC device. Users can modify credentials, enable Multi-Factor Authentication (MFA) for enhanced login security, and configure notification details.

For more details, refer to the figure and table below.



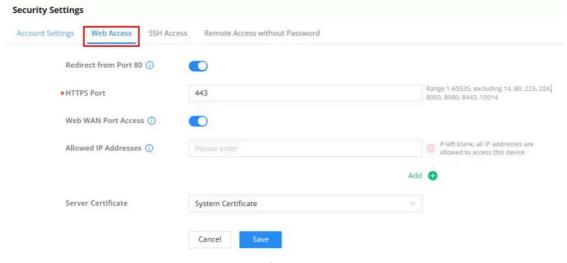
**Account Settings** 

Field	Description
Username	Displays the default login username (not editable).
Password	Allows updating the administrator login password.
Email	Optional field for system alerts and notifications.
Mobile Number	Optional contact number, used for notifications (where supported).
Multi-Factor Authentication	Enables additional login verification using an MFA code. If enabled, users will enter a time-based one-time password (TOTP) after the main login credentials. A setup guide is available through the link shown.
Modify (links)	Use the "Modify" button next to each field to update its value.

Account Settings

The Web Access tab allows administrators to configure how the GCC6020 device is accessed through the web interface, including WAN accessibility, HTTPS port, IP restrictions, and server certificate settings. This helps strengthen remote management security and limit exposure.

For more details, refer to the figure and table below.



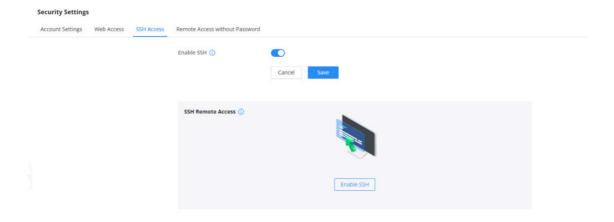
Web Access

Field	Description
Redirect from Port 80	Enable or disable redirection from HTTP (port 80) to HTTPS. Disabling this will stop automatic redirect to secure access.
HTTPS Port	Port used for HTTPS web access. Range: 1–65535 (excluding: 14, 80, 223, 224, 8000, 8080, 8443, 10014).
Web WAN Port Access	Allows or restricts web access over the WAN interface.
Allowed IP Addresses	Specify IP addresses allowed to access the web interface via WAN. If left blank, all IP addresses are permitted.
Server Certificate	Select the server certificate used for HTTPS access.

Web Access

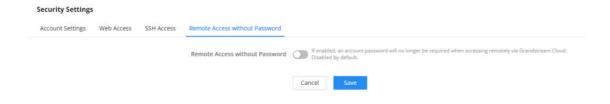
## **SSH Access**

In this section, the user can enable SSH remote access to the device, this includes SSH remote access as well.



#### **Remote Access without Password**

Enabling passwordless remote access allows you to access the device through the GDMS management platform without having to provide a username and password for authentication.



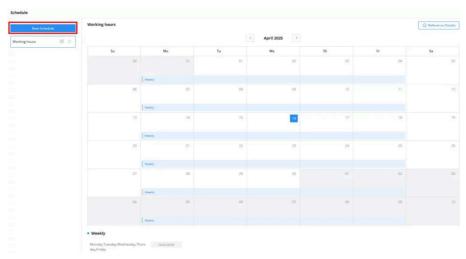
Remote Access without Password

#### Schedule

The **Schedule** section allows users to create time-based rules that can be applied across various features such as SSID broadcasting, firewall rules, system backups, and more. These schedules help control when specific services or actions should be active.

To configure device schedules, navigate to: System Settings  $\rightarrow$  Schedule

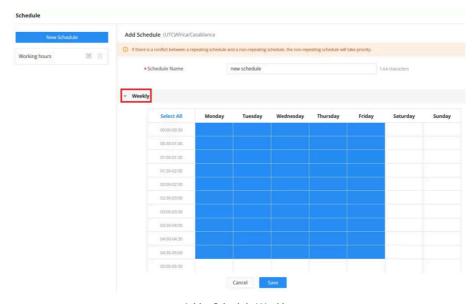
Click **New Schedule** to begin creating a custom schedule.



Add a Schedule

When creating a schedule, you can choose between two types:

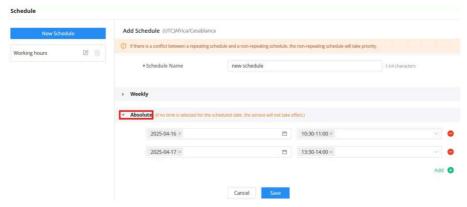
- Weekly (repeating): Recurs weekly on selected days and times.
- **Absolute (non-repeating)**: Defines one-time actions for specific dates and time slots.



Add a Schedule Weekly

#### Note:

- o If no time is selected for the scheduled date in an absolute schedule, the service will not take effect
- If both a weekly (repeating) and an absolute (non-repeating) schedule are applied to the same service, the absolute schedule will take priority.

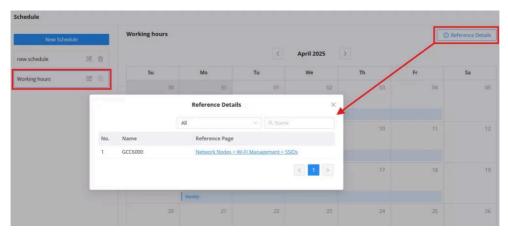


Add a Schedule Absolute

Users can add time slots per day and save the configuration to make the schedule available for assignment.

Once created, schedules can be applied in various modules. To check where a schedule is currently in use, click **Reference Details**.

The **Reference Details** window shows a list of all modules referencing the selected schedule. This helps prevent accidental deletion of schedules that are actively in use elsewhere.



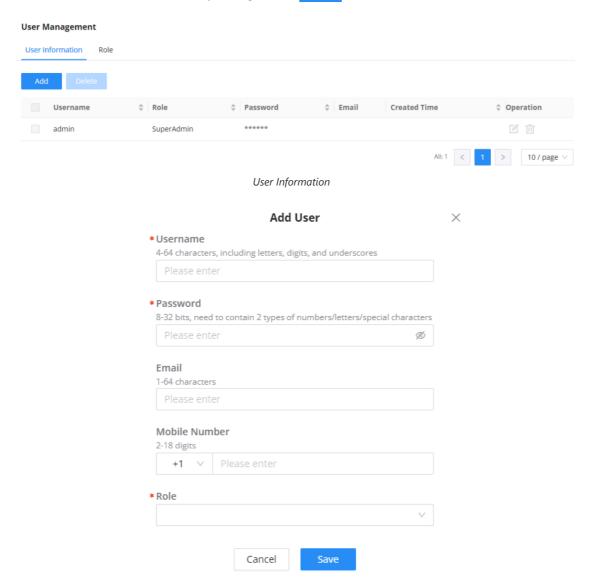
Schedule Reference Details

## **User Management**

User Management allows the user to create users with various roles and privileges.

#### **User Information**

In this section, the user can create new users by clicking on the button



Add User

Username	Enter the username.  The username can consist of 4-64 characters, including letters, digits, and underscores.
Password	Enter the password.  The password can consist of 8-32 characters, need to contain 2 types of numbers/letters/special characters
Email	Enter the email of the user.  The email entered should be limited between 1-64 characters
Mobile Number	Enter the mobile number of the user.  The phone number is limited between 2-18 digits

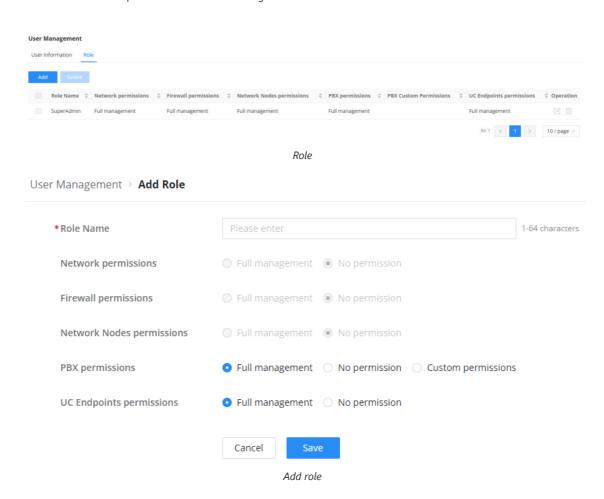
Role	Select the role of this user.
Kole	The role must be created first, before it's assigned to the user under

#### Role

In this section, the user can create roles that can be assigned to different users. By default, the SuperAdmin role is pre-created and assigned to the default administrator account of the device. To create more roles, click on the

#### Note

Please note that the SuperAdmin role cannot be assigned to other users. It's an exclusive role for the default user of the device.



## **Email Settings**

The Email Settings section allows the GCC6020 device to send notification emails for various system events. When properly configured, the device can deliver emails to specified recipients in response to triggers such as alerts, scheduled meetings, emergency events, and more.

Email notifications can include the following types of information:

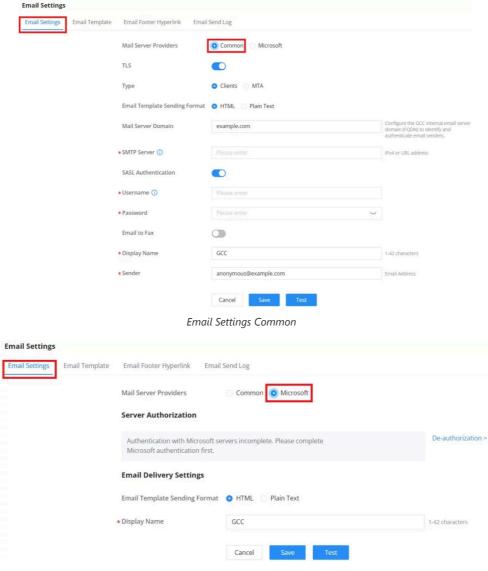
- Extension information
- o Remote registration of an extension
- Wave welcome message
- o Missed call notifications
- o Scheduled multimedia meetings
- o Scheduled meeting reports
- o Alert events
- o Emergency calls

## **Email Setting**

The configuration interface includes a Mail Server Providers option, which defines how email delivery is handled:

- **Common**: Traditional SMTP-based delivery. This mode allows administrators to manually configure all required email settings including SMTP server, authentication, TLS, and sender details.
- Microsoft: A streamlined option for Microsoft® 365 and Outlook integration. SMTP settings are hidden, and the system
  requires Microsoft account authorization instead. Only essential delivery fields such as display name and template format
  are shown.

The interface updates dynamically based on the selected provider to simplify configuration and match the requirements of the chosen email service.



Email Settings Microsoft

Mail Server Providers	Select the type of email service provider:  • Common: Uses standard SMTP configuration.  • Microsoft®: Connects to Microsoft® 365 or Outlook using account authorization. The available fields will adjust depending on the selected option.
	When Mail Server Providers set to Common
TLS	Enable or disable TLS during transferring/submitting your Email to another SMTP server. The default setting is "Yes".

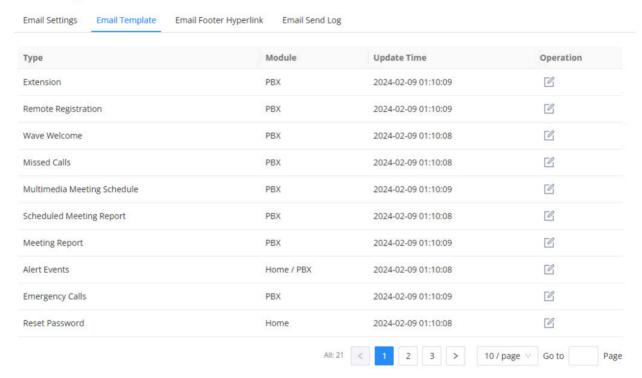
Туре	<ul> <li>MTA: Mail Transfer Agent. The Email will be sent from the configured domain. When MTA is selected, there is no need to set up SMTP server for it and no user login is required. However, the Emails sent from MTA might be considered as spam by the target SMTP server.</li> <li>Clients: Submit Emails to the SMTP server. A SMTP server is required, and users need login with correct credentials.</li> </ul>
Email Template Sending Format	<ul> <li>HTML: The emails will be sent in HTML format.</li> <li>Plain Text: The emails will be sent as plain text.</li> </ul>
Mail Server Domain	Specify the domain name to be used in the Email when using type "MTA".
SMTP Server	Enter the address of the SMTP server when using type "Client".  The address can be either an IP address or a FQDN.
SASL Authentication	Enable Simple Authentication and Security Layer.  When this option is disabled, the device will not try to use the username and password for mail client authentication.  Most of the mail servers require authentication while some other private mail servers allow anonymous login, which requires disabling this option to send email as normal.  For Microsoft Exchange Server, please disable this option.  Note: This option is available when Type is "Clients".
Username	Enter the username created for the SMTP client.  Note: This option is available when Type is "Clients".
Password	Enter the username created for the SMTP client.  Note: This option is available when Type is "Clients".
Email To Fax	Monitors the inbox of the configured email address for the specified subject. If enabled, the IPPBX will get a copy of the attachment from the email and send it to the XXX extension by fax. The attachment must be in PDF/TIF/TIFF format.  Note: This option is available when Type is "Clients".
Email-to-Fax Blocklist/Allowlist	The user can enable the Email-to-Fax Blacklist or Email-to-Fax Whitelist.
Email-to-Fax Subject Format	Select the email subject format to use for emails to fax.  • SendFaxMail To XXX  • XXX  XXX refers to the extension that the fax will be sent to. This extension can only contain numbers.  Note: This option is available when Type is "Clients" and "Email to Fax" is enabled.
Fax Sending Success/Failure Confirmation	Email address blacklist/whitelist for local extensions.  Note: This option is available when Type is "Clients" and "Email to Fax" is enabled.
POP/POP3 Server Address/Port	Configure the POP/POP3 server address and port for the configured username Example: pop.gmail.com Note: This option is available when Type is "Clients" and "Email to Fax" is enabled.
Display Name	Specify the display name in the FROM header in the Email.
Sender	Specify the sender's Email address. For example: pbx@example.mycompany.com.
	When Mail Server Providers set to Microsoft
Server Authorization	Displays the Microsoft authorization status. To enable email sending via Microsoft® services, users must complete the authentication process. A de-authorization option is available to revoke access.
Email Template Sending Format	Choose whether the email should be sent in HTML or Plain Text format.

Specify the display name that will appear in the "From" field of outgoing emails. Maximum 42 characters.

#### **Email Template**

The user can customize the layout of the emails sent by the device to the various users. The device already provides a preconfigured layout that can be modified.

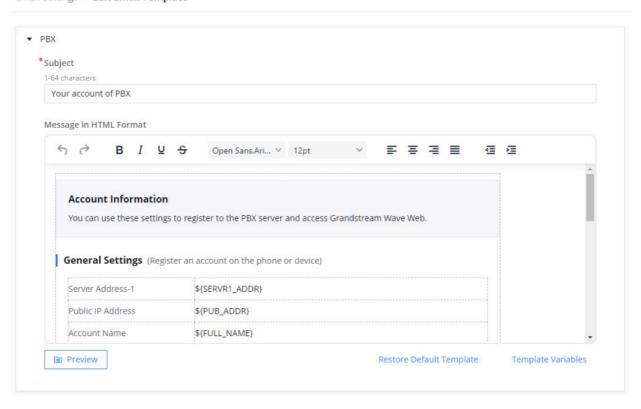
## **Email Settings**



Email Template

The user can click on the edit button 🛮 to edit a specific template.

## Email Settings > Edit Email Template

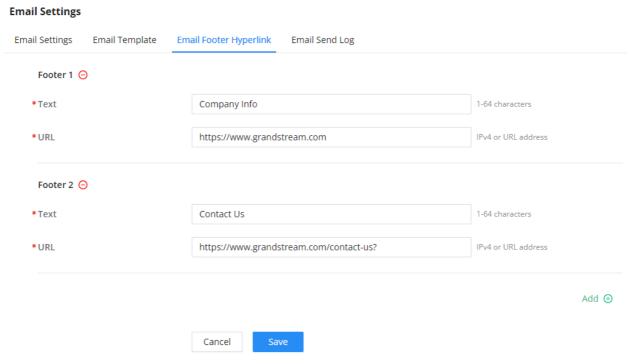


The user can use the text editor to change the layout. Once that is done, the user can view the new layout by clicking on Preview .

#### **Email Footer Hyperlink**

The customize the links that are included in the footers, please navigate to **System Settings** → **Email Settings** → **Email Footer Hyperlink** 

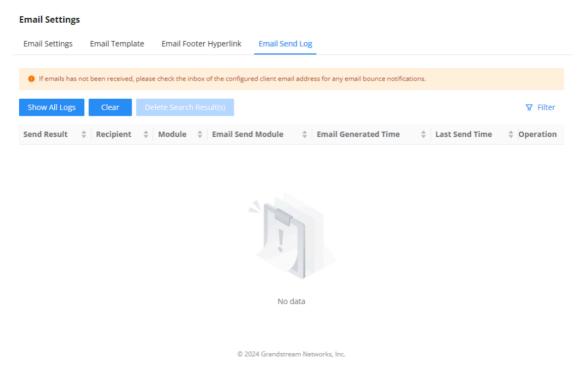
On the page, you can edit the text and the URL of each footer. You can add 3 additional footers if needed.



Email Footer Hyperlink

## **Email Send Log**

Email send log is used to keep records of all the emails that have been sent from the GCC device.



Email Send Log

The SMS feature allows the user to send information over SMS to mobile numbers. Currently, the information which can be sent over SMS are the following:

- o Profile Code:
- Verification Code:
- Alarm Notification:

## **SMS Settings**

#### **SMS Settings**

Enable SMS		
SMS Carrier	• Twilio   Amazon	Configures the SMS carrier. Twilio and Amazon SMS services are supported.
Username	Please enter	Configure your Twilio account ID.
Auth Token	Please enter	Twilio The key of the account.
Messages Server ID	Please enter	Please enter the SMS Server ID.
From	+1 V Please enter	Configures the source number of outgoing messages.

SMS Settings

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## Twilio:

Enable SMS	Toggle the slider to enable/disable SMS service.	
SMS Carrier	Select Twilio as the SMS Carrier.	
Username	Enter the username of the account of the carrier.	
Auth Token	Enter the authentication token generated on the carrier's site.	
Message Server ID	Enter the ID of the message server of the carrier.	
From	Configure the source number of the outgoing messages.	

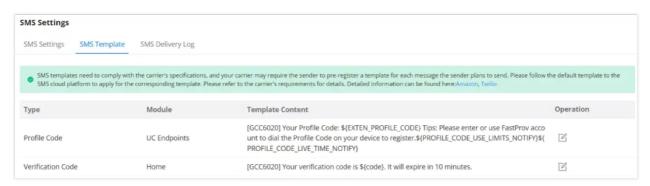
#### Amazon:

Enable SMS	Toggle the button to enable/disable SMS feature.	
SMS Carrier	Choose Amazon as the SMS carrier.	
Region	Choose your region.  • US East (N. Virginia)	

	• US East (Ohio)
	• US West (N. California)
	• US West (Oregon)
	• EU (Ireland)
	• EU (London)
	• EU (Paris)
	• EU (Frankfurt)
	• EU (Stockholm)
	• EU (Milan)
	• Asia Pacific (Hong Kong)
	• Asia Pacific (Mumbai)
	• Asia Pacific (Singapore)
	• Asia Pacific (Sydney)
	• Asia Pacific (Jakarta)
	Asia Pacific (Tokyo)
	• Asia Pacific (Seoul)
	• Asia Pacific (Osaka)
	• South America (Sao Paulo)
	• China (Beijing)
	• China (Ningxia)
	• Canada (Central)
	Middle East (Bahrain)
	• Middle East (UAE)
	• Africa (Cape Town)
	AWS GovCloud (US-West)
	AWS GovCloud (US-East)
	• US ISO East
	• US ISOB East (Ohio)
	• US ISO West
Username	Configure your Amazon account ID.
Password	Configure your Amazon account password.

## **SMS Template**

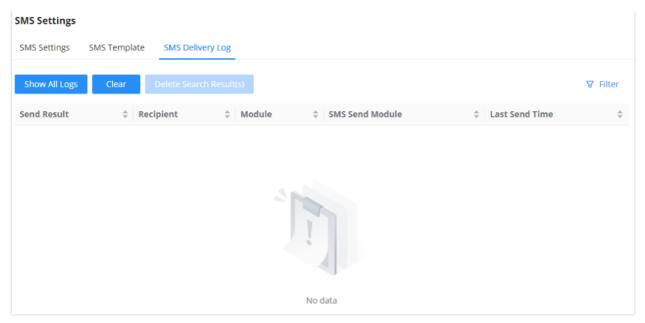
In the "SMS Template" tab, the user can view and edit templates of the SMS messages sent by the GCC device.



SMS Template

## **SMS Delivery Log**

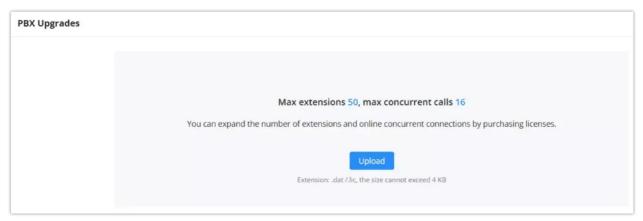
The "SMS Delivery Log" tab displays information about all the SMS messages that have originated from the GCC device.



SMS Delivery Log

## **PBX Upgrades**

On this page, the user can manage the license for upgrading the PBX capabilities of the GCC. When the license file is acquired, the user can upload the license file in this section.



PBX Upgrades

#### Note

Please note that only the .dat and .lic files are supported.

#### Maintenance

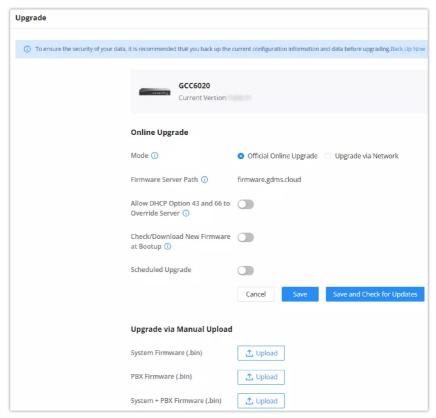
## **Upgrade**

When a new firmware is released for the GCC device, the user can use the "Upgrade" page to update the firmware of the GCC device using different methods of updating the firmware.

There are three methods of upgrading the firmware which are listed below.

- Official Online Upgrade: This method allows upgrading directly from the Grandstream firmware server. The
  administrator can click "Detect New Version" to check for any new firmware releases. When a new firmware version is
  available, the administrator can proceed with upgrading the device.
- Allow DHCP Options 43 and 66 to Override Server: If enabled, DHCP options 66 and 43 will override the upgrade and
  provisioning settings, if disabled, use the configured server path to request firmware information by default. Note: In the
  official online upgrade mode, "Detect New Version" uses the official default address, and this configuration does not take
  effect.

- Check/Download New Firmware at Bootup: When it is turned on, firmware detection will be performed every time the
  device is started. If a new firmware version is detected, it will automatically download and upgrade. This option is disabled
  by default to prevent the device from updating upon booting.
- o Scheduled Upgrade: Specifies a specific schedule for the device to check for new firmware and install them.
- **Upgrade via Network**: Using this method, the user can choose a specific upgrade method and configure a server address that hosts the firmware files.
- Upgrade via Manual Upload: Using this method, the user can upload the firmware file directly on the web UI of the
  device.



GCC Upgrade

#### **Important**

- When uploading the firmware image to the device, please ensure that you are using the correct firmware image.
- Before upgrading the firmware of the device, please perform a full backup of the configuration of the device to avoid any configuration loss after the upgrade.
- When downgrading to a version that is not compatible with the current system, a factory reset prompt will appear before the process can continue.

Parameter	Description			
Online Upgrade				
Mode	<ul> <li>Official Online Upgrade: Use Grandstream servers to upgrade the device.</li> <li>Upgrade via Network: Use a specific protocol and server to upgrade the device.</li> </ul>			
Allow DHCP Option 43 and 66 to Override Server	If enabled, DHCP options 66 and 43 will override the upgrade and provisioning settings.  If disabled, use the configured server path to request firmware information by default.  Note: In the official online upgrade mode, "Detect New Version" uses the official default address, and this configuration does not take effect.			

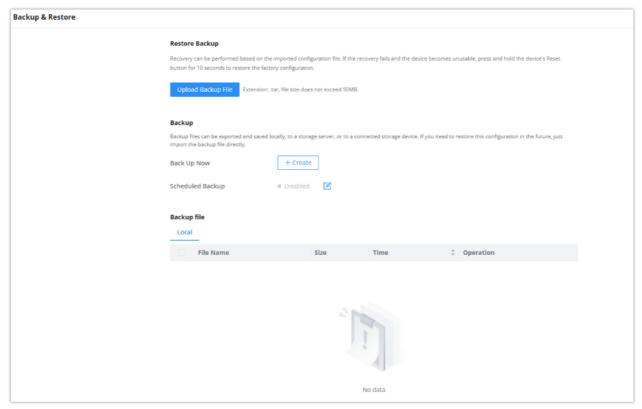
Check/Download New Firmware at Bootup	When it is turned on, firmware detection will be performed every time the device is started. If a new firmware version is detected, it will automatically download and upgrade
Scheduled Upgrade	Enable this option and select the schedule for checking if there is a new firmware version. If a new version is detected, the device will perform the update according to the schedule.
Upgrade via Manual Upload	
System Firmware (.bin)	Upgrade the system's firmware by uploading the firmware image. Only .bin file extensions are allowed.
PBX Firmware (.bin)	Upgrade the PBX's firmware by uploading the firmware image. Only .bin file extensions are allowed.
Firmware (.bin)	Upgrade both the system and PBX firmwares by uploading one firmware file. Only .bin file extensions are allowed.

## **Backup & Restore**

On the "Backup & Restore" page, the user can back up the data of the GCC device manually or using a scheduled backup.

The restore function allows the import of a backup file to restore the GCC.

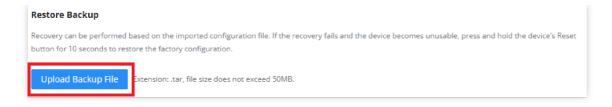
When backing up the data, the user can choose the data of the GCC modules to be backed up.



Backup Restore

## **Restore Backup**

Press the "Upload Backup File" button to import a previously saved backup file from your computer.



#### Note:

The backup file should have the extension ".tar" and should not exceed 50 MB.

If the recovery fails and the device becomes unusable, press and hold the device's Reset button for 10 seconds to restore the factory configuration.

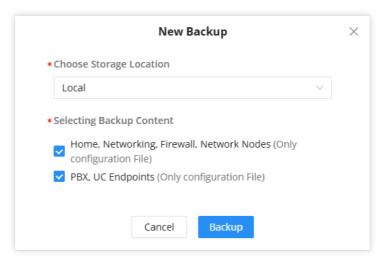
#### **Backup**

Backup files can be exported and saved locally, to a storage server, or to a connected storage device.

The administration can select the time to back up as follows

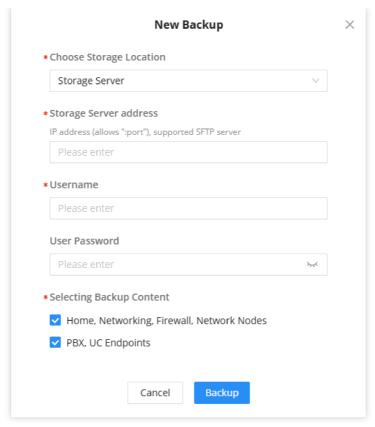
**Back up Now**: Press + Create button to initiate an immediate backup.

- 1. Choose Storage Location: Local or Storage Server.
- o Storage Location: **Local**.



New Backup Local

• Storage Location: **Storage Server**.

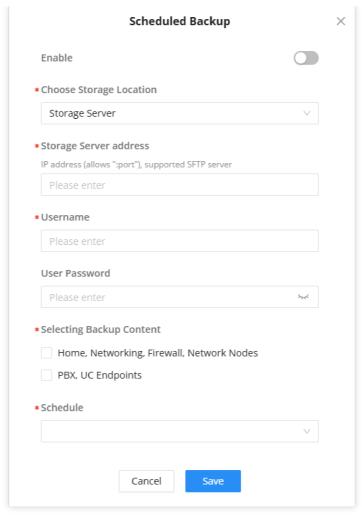


New Backup Storage Server

Enter the Storage Server Address, Username, and Password.

The storage server must be an SFTP server.

2. Select the backup Content. (Home, Networking, Firewall, Network Node and/or PBX, UC Endpoints).

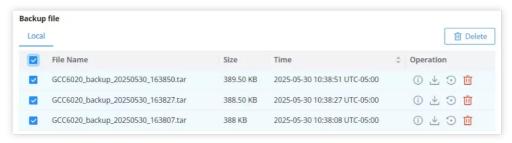


Scheduled Backup

- 1. Check "Enable" to enable the backup schedule.
- 2. Choose Storage Location: Storage Server (only)
- 3. Storage Server Address: Enter the IP address:port of the SFTP server.
- 4. Username: Enter the SFTP server username.
- 5. User Password: Enter the SFTP server password.
- 6. Select the backup content (Home, Networking, Firewall, Network Nodes and/or PBX, UC Endpoints).
- 7. Schedule: Select a schedule. If no schedule is defined, press the "New Schedule" button to create it.

Only one scheduled backup can be configured.

Backup file: List the local backup files.



Administrators can operate them as follows:

- (i): To check the details.
- $\underline{\ensuremath{ \bot}}$  : To download the backup file to a local computer.
- : To restore the local backup file.

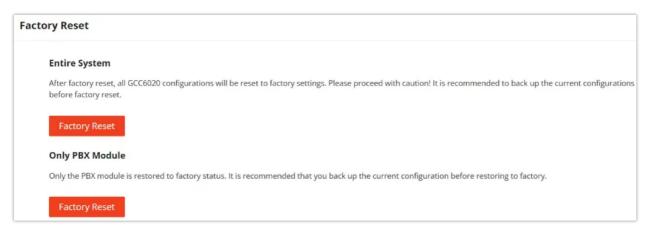
ii: To delete the backup file.

🗓 Delete

Select multiple backup files and batch delete them.

## **Factory Reset**

On this page, the user can perform a factory reset for the entire system. This will delete all the modules' data and configuration which are stored on the local storage of the device. If the user uses the "Factory Reset" button under **Only PBX Module**, only the data and configuration in the PBX module will be deleted. The other modules are not affected by this action.



Factory Reset

#### Warning

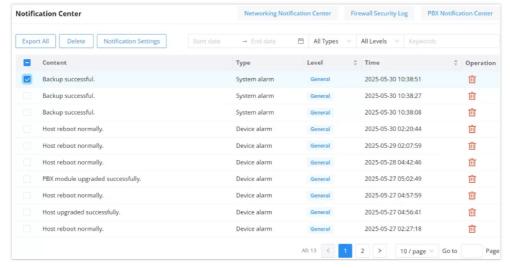
Resetting the device to the factory settings will delete all the data and configuration which are stored on the device. Please proceed with caution as this data cannot be recovered after the factory reset.

#### Note

Please note that the attached storage such as a USB flash drive or M.2 SSD is not affected when factory-resetting the device.

#### **Notification Center**

The Notification Center allows the user to view and configure notifications of the events that occur on the GCC device. To access the notification center, please access the main page of the GCC web UI and then click on the **Notification Center** tab.



Notification Center

#### **Notification Settings**

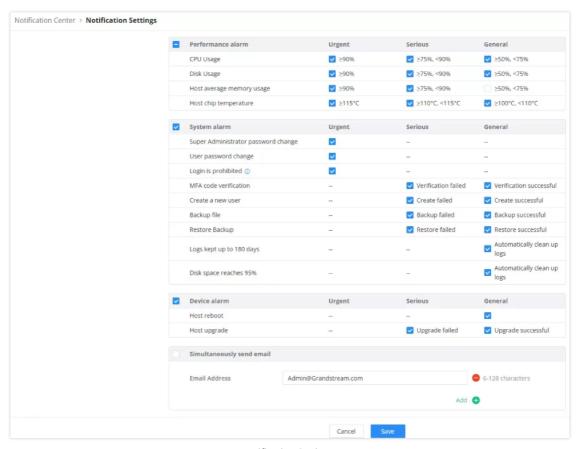
To set the notifications of the GCC device, click on

Notification Settings

On this page, the user can enable notifications for certain events on the GCC. In addition to generating the notification on the web UI, the user can configure an email address to which email notifications are sent.

#### Note

To use the email notification feature, please ensure that the Email Settings on the GCC are configured successfully.



Notification Settings

## **Logs & Diagnostics**

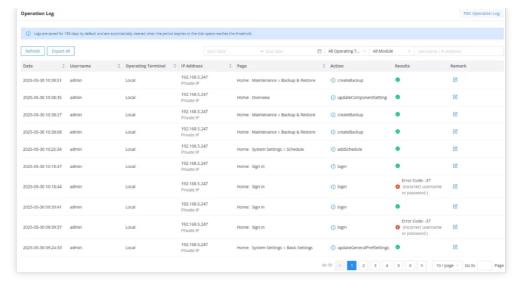
## **Operation Log**

The Operation Log page provides administrators with a comprehensive overview of all logged operations, offering detailed information about each activity. This feature ensures transparency and allows administrators to monitor, analyze, and manage system activities effectively.

#### Note:

Logs are saved for 180 days by default and are automatically cleared when the period expires or the disk space reaches the threshold.

From this page, the administrator can monitor system operations, including login actions and their outcomes (success or failure), date/time, IP address, username, and Page. Additionally, the administrator can add remarks for each action by editing the remark column using the provided button **2**.



Operation Log

The administrator can utilize filters to quickly find the needed information.

The supported filters are:

- o Date: Specify a Start date and End date to narrow down results.
- o Operation Terminal: Choose from All Operation Terminals, Local, GDMS Networking, Manager, or CLI.
- o Module: Filter by specific module such as All Modules, Home, Networking, Firewall, or Network Nodes.
- o Username / IP Address: Enter the username or IP address for precise filtering.

#### **Notes:**

- The filters can be combined for better results.
- Click
   PBX Operation Log on the top right corner to access the PBX Operation Log module.

To export the logs, press Export All button. The logs will be saved in a CSV file.

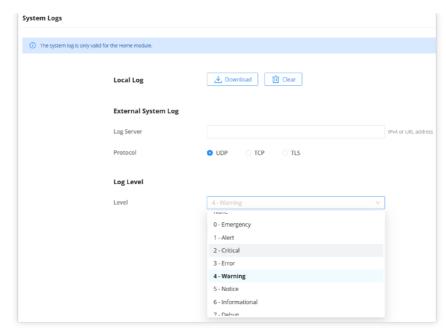
## **System Logs**

The **System Logs** page allows administrators to view, download, and forward system log data to an external server for monitoring and troubleshooting.

### Note

This feature is only available when the device is operating in Home mode.

The page is divided into two parts:



System Logs

#### Local Log

Users can download or clear the current system log file directly from the device.

#### o External System Log

Allows forwarding logs to a remote server. Enter the destination server address and select the desired protocol:

- o UDP
- o TCP
- o TLS

You can also define the Log Level, which filters the types of events that are captured and sent. Available log levels are:

- None
- 0 Emergency
- 1 − Alert
- o 2 Critical
- 3 − Error
- ∘ 4 Warning
- ∘ 5 Notice
- o 6 Informational
- ∘ **7 Debug**

Select the appropriate level based on the desired granularity of system reporting.

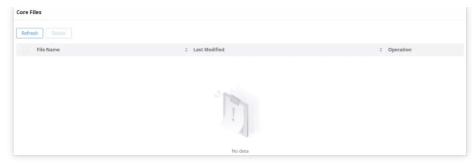
#### **Core Files**

The **Core Files** page displays a list of crash dump files generated by the system in the event of a critical failure. These files contain technical information that can help developers or support teams diagnose system issues.

If the device has not experienced any crashes, this page will appear empty.

Users can:

- o Click **Refresh** to check for newly generated files.
- o Select and **Delete** any stored files if needed.



Core Files

## **NETWORKING**

The Networking module of GCC6020 includes network-related configuration mainly VPN, Multi-WAN, and traffic management. It also allows users to configure all the standard routing configurations such as VLAN, port forwarding, etc.

Click on the icon to access.



## **FIREWALL**

The firewall module of GCC device is a Next-Generation Firewall (NGFW) that secures users' network environment by providing defense against the most advanced network attacks as it supports anti-virus and intrusion prevention (IDS/IPS) with frequent signature library updates and also supports SSL proxy to filter HTTPS URL.

Click on the icon to access.



## **NETWORK NODES**

Network nodes refer to individual devices or components such as switches and access points that form the interconnected infrastructure of the network. These nodes provide data points for analysis, which helps centralize the monitoring and configuration of the device performance, security, and overall network features. The GCC device offers an embedded controller for both the wireless access points and the GWN-managed network switches to provide the user with a global overview of his network infrastructure.

Click on the icon to access.



## **PBX**

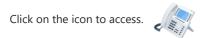
The integrated IPPBX module in the all-in-one convergence device the GCC device provides a communication and collaboration solution for enterprises that do not require expanded telephony capabilities. It offers the same features that are provided by Grandstream IPPBX solution, the UCM6300, to ensure cost-effective and efficient collaboration among professionals.

Click on the icon to access.



## **UC ENDPOINTS**

The UC endpoints configuration module contains all the settings and tools to manage and control the unified communication endpoints, including devices ranging from IP phones, Video phones, and Wi-Fi phones, to security facility access devices such as the IP cameras and the door systems. The GCC device with its VoIP devices and IPC devices management modules offers a centralized way to manage, provision, and control all your on-premise UC endpoint devices.



## **CHANGE LOG**

This section documents significant changes from previous versions of user manuals for GCC6020. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

Firmware version 1.0.7.32 (PBX version 1.0.27.70)



• This is the initial version.

#### PBX:

o This is the initial version.

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