



# Testing the SIP Function of GV-CR1320 / CS1320 with a PC

Article ID: GV4-19-11-08-Ch

Release Date: 11/08/2019

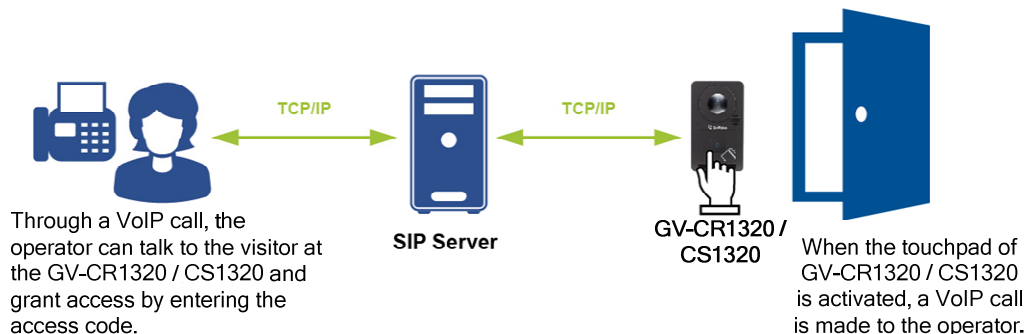
## Applied to

GV-CR1320

GV-CS1320

## Summary

With Voice over Internet Protocol (VoIP) call support by SIP, GV-CR1320 / GV-CS1320 is able to place and receive calls to and from an IP phone or a PC through a SIP server.



To test the SIP function of GV-CR1320 / CS1320 with a PC, installed with a SIP Softphone, follow the steps below:

- **Step 1: Set up a SIP Server**

To set up a SIP server, see *1. Setting up SIP Server*.

- **Step 2: Set up the PC as a SIP Phone**

To set the PC as a SIP Phone, see *2. Installing and Configuring SIP Softphone*.

- **Step 3: Configure GV-CR1320 / CS1320**

To configure the SIP function of GV-CR1320 / CS1320, see *3. Configuring GV-CR1320 / CS1320*.



## Procedures

Note that the following procedures are demonstrated using 2 free SIP software: [miniSIPServer](#), a SIP Server program, and [MicroSIP](#), a SIP Softphone.

### 1. Setting up SIP Server

1. Install and run a SIP Server program, such as [miniSIPServer](#), on your PC.

```

2019-10-30 15:50:37 | loading configuration files ...
2019-10-30 15:50:38 | Create service switch process ...
2019-10-30 15:50:38 | Create service control process ...
2019-10-30 15:50:38 | Create STUN process ...
2019-10-30 15:50:38 | Create media gateway process ...
2019-10-30 15:50:38 | Create SIP process ...
2019-10-30 15:50:39 | STUN server: 192.168.0.71:3478
2019-10-30 15:50:39 | STUN server: 192.168.0.71:3479
2019-10-30 15:50:39 | SIP server address (ipv4) is '192.168.0.71'
2019-10-30 15:50:39 | SIP server address (ipv6) is 'fe80::e0eb:436d:6c4f:7c69'
2019-10-30 15:50:39 | SIP server UDP port is 5060
2019-10-30 15:50:39 | SIP server TCP port is 5060
2019-10-30 15:50:39 | Server (V36 build 20191024,win) is ready.
    
```

2. On the SIP Server program, set up at least **two SIP User Accounts**, each with a valid account name and password.

User name	Description	Display name	Address	Other
101			0.0.0.0	
102			0.0.0.0	

- **SIP User A**, 101 in this example, will be assigned to your PC, see 2. *Installing and Configuring SIP Softphone*
- **SIP User B**, 102 in this example, will be assigned to the GV-CR1320 / CS1320, see 3. *Configuring GV-CR1320 / CS1320.*



## 2. Installing and Configuring SIP Softphone

**Note:** For convenient testing, it is recommended to install the SIP Server and SIP Softphone programs on the same PC. Users can also choose to install them on two separate PCs within the same LAN.

1. Install and run a SIP Softphone program, such as [MicroSIP](#), on your PC.
2. In its account settings (**Settings** > **Edit Account** on MicroSIP), type the **IP Address** of the SIP Server and type the account **Username** and **Password** of *SIP User A* (see Step 2, 1. *Setting up SIP Server*).

SIP Server: 192.168.0.71

SIP Proxy:

Username: 101

Domain: 192.168.0.71

Login: 101

Password: ●●●

display\_password

Display Name:

Voicemail Number:

Dialing Prefix:

Media Encryption: Disabled

Transport: Auto (UDP & TCP)

Public Address: Auto

Register Refresh: 300      Keep-Alive: 15

Publish Presence

Allow IP Rewrite

ICE

Disable Session Timers

x      Save      Cancel

Once the settings are saved and applied, the SIP Softphone on your PC is recognized by the SIP Server as **SIP User A**, 101 in this example.



### 3. Configuring GV-CR1320 / CS1320

1. On the Web interface of GV-CR1320 / CS1320, click **SIP > SIP Setting**. The SIP Setting page appears.
2. **Enable** the SIP function. Then under **SIP Server Setting**, type the **IP Address** and **Server Port** of the SIP Server and type the account **Username** and **Password** of *SIP User B* (see Step 2, 1. *Setting up SIP Server*).
3. Under **SIP Outgoing Call Setting**, type the **SIP Extension** number of the PC (*SIP User A*) in **Primary Outgoing Call SIP Name**.

**SIP**

SIP Setting.

Enable

**SIP Server Setting**

User Name: 102

Password: \*\*\*

SIP Server Address: 192.168.0.71

SIP Server Port: 5060

UDP  TCP  TLS

**SIP Outgoing Call Setting**

Enable Alternate

Primary Outgoing Call SIP Name: 101 (Extension)

Alternate Outgoing Call SIP Name:

Alternate Outgoing Call SIP Name:

---

**Note:** Make sure the value and type of SIP Server Port match those of the SIP Server used.

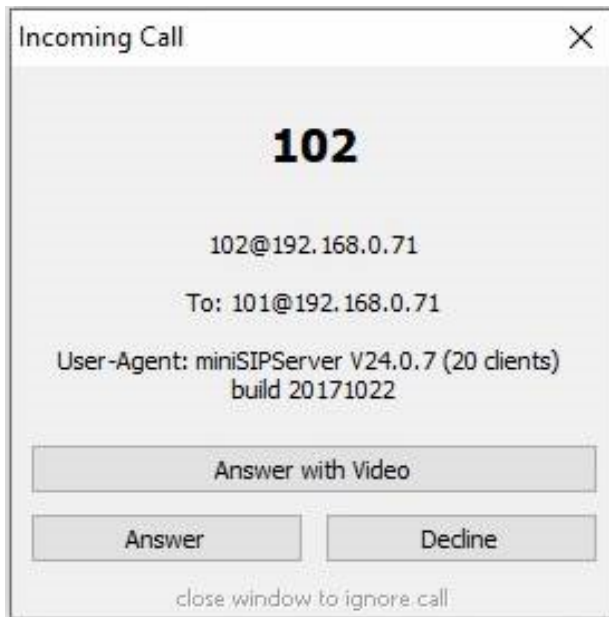
---

4. Click **Apply**. The GV-CR1320 / CS1320 is recognized by the SIP Server as **SIP User B**, 102 in this example.



#### 4. Calling the PC from GV-CR1320 / CS1320

After all of the above settings are properly set, you can test the SIP function of the GV-CR1320 / CS1320 by tapping its **Door Bell** button to place a call to the PC. When the call is made, the SIP softphone, exemplified by MicroSIP, on the PC rings, along with the information of the incoming call, such as its SIP extension.



Answer the call to test your SIP communication.