

Grandstream Networks, Inc.

SoftwareUCM - **System Management Guide**



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Introduction

The system management interface allows SoftwareUCM to manage its resources and provides network administrators with a method to monitor and view the virtual machine's current state. Various options can be accessed and modified from the command line terminal. This guide explores the different types of information that can be retrieved from SoftwareUCM through the command terminal.

System Status

The system status provides users with various details about the SoftwareUCM hosted virtual machine. Once installed and launched, users can interact with the command line as follows:

- Enter “2” to display the list of system status settings.
- Once the list is displayed, enter “1” to view the system status, which will show the current CPU and memory usage.

```
Please enter select:
[1] SoftwareUCM Management.
[2] System Information.
[3] System Settings.
[4] Maintenance.
[5] API Configuration.
[0] Exit.
2

Please enter select:
[1] System Status.
[2] Storage Usage.
[0] Exit.
1

top - 17:17:11 up 37 min, 1 user, load average: 1.12, 1.05, 1.53
%Cpu0  :  0.0 us,  6.2 sy,  0.0 ni, 87.5 id,  0.0 wa,  0.0 hi,  6.2 si,  0.0 st
%Cpu1  :  0.0 us,  6.7 sy,  0.0 ni, 93.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
%Cpu2  :  0.0 us,  0.0 sy,  0.0 ni, 94.1 id,  0.0 wa,  0.0 hi,  5.9 si,  0.0 st
%Cpu3  :  0.0 us,  6.7 sy,  0.0 ni, 93.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
%Cpu4  :  0.0 us,  6.7 sy,  0.0 ni, 93.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
%Cpu5  :  0.0 us,  6.7 sy,  0.0 ni, 93.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
%Cpu6  :  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
%Cpu7  :  0.0 us,  6.7 sy,  0.0 ni, 93.3 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem : 3457.2 total, 1612.9 free, 979.3 used, 1121.6 buff/cache

top - 17:17:14 up 37 min, 1 user, load average: 1.12, 1.05, 1.53
%Cpu0  :  0.8 us,  3.6 sy,  0.0 ni, 94.9 id,  0.0 wa,  0.0 hi,  0.8 si,  0.0 st
%Cpu1  :  0.8 us,  2.3 sy,  0.0 ni, 94.9 id,  0.0 wa,  0.0 hi,  2.0 si,  0.0 st
%Cpu2  :  1.2 us,  2.4 sy,  0.0 ni, 95.2 id,  0.0 wa,  0.0 hi,  1.2 si,  0.0 st
%Cpu3  :  1.2 us,  3.3 sy,  0.0 ni, 92.1 id,  0.0 wa,  0.0 hi,  3.3 si,  0.0 st
%Cpu4  :  1.2 us,  2.0 sy,  0.0 ni, 95.6 id,  0.4 wa,  0.0 hi,  0.8 si,  0.0 st
%Cpu5  :  0.8 us,  2.4 sy,  0.0 ni, 95.1 id,  0.0 wa,  0.0 hi,  1.6 si,  0.0 st
%Cpu6  :  0.8 us,  2.4 sy,  0.0 ni, 96.1 id,  0.0 wa,  0.0 hi,  0.8 si,  0.0 st
%Cpu7  :  1.2 us,  2.0 sy,  0.0 ni, 94.0 id,  0.0 wa,  0.0 hi,  2.8 si,  0.0 st
MiB Mem : 3457.2 total, 1622.2 free, 970.1 used, 1121.6 buff/cache
```

View System Status

- Enter “2” to view storage usage information. This will display the total disk size, used space, available space, and the percentage of used space.

```
Please enter select:
[1] System Status.
[2] Storage Usage.
[0] Exit.
2

+-----+-----+-----+-----+-----+
| Mounted on | Size | Used | Avail | Use% |
+-----+-----+-----+-----+-----+
| /          | 8.9GB | 1.4GB | 7.5GB | 15.71% |
| /container | 9.9GB | 1.4GB | 8.5GB | 14.26% |
+-----+-----+-----+-----+-----+

Please enter select:
[1] System Status.
[2] Storage Usage.
[0] Exit.
```

View Storage Status

System Settings

Network Settings

Network Settings allow users to view and edit the network of the SoftwareUCM, such as changing the IP address assignment method, viewing the current network configuration, and pinging other devices to test connectivity. To access network settings, please see the following steps:

- Enter “3” to access the system settings.
- Enter “1” to access the network settings.
- Enter the option “1” to view the current network configuration.

```
Please enter select:
[1] SoftwareUCM Management.
[2] System Information.
[3] System Settings.
[4] Maintenance.
[5] API Configuration.
[0] Exit.
3

Please enter select:
[1] Network Settings.
[2] NTP Settings.
[0] Exit.
1

Please enter select:
[1] View current network configuration.
[2] Update network configuration.
[3] IP Ping.
[0] Exit.
1

Device: eth0
Link State: up
Method: Static
IP: 192.168.5.145
Netmask: 255.255.255.0
Gateway: 192.168.5.1
DNS: 192.168.5.1

Please enter select:
[1] View current network configuration.
[2] Update network configuration.
[3] IP Ping.
[0] Exit.
```

Network Settings

- To update the current network configuration, Enter “2”
- Once this is selected, you will be prompted to choose from setting up the IP address assignment statically or through DHCP, select option “1” for DHCP and option “2” for statically assigned IP

```

Please enter select:
[1] View current network configuration.
[2] Update network configuration.
[3] IP Ping.
[0] Exit.
2

Please select method:
[1] DHCP.
[2] Static.
[0] Exit.
2

Please enter IP address:
192.168.5.155
Please enter netmask:
255.255.255.0
Please enter gateway:
192.168.5.1
Please enter DNS server:
192.168.5.1

Configured the network successfully.

```

Configure Network Settings

- To test connectivity to a specific device on the same LAN as the SoftwareUCM virtual machine, please Enter option “3”
- Provide the host IP address

```

Please enter select:
[1] View current network configuration.
[2] Update network configuration.
[3] IP Ping.
[0] Exit.
3

Please enter target host:
192.168.5.246

PING 192.168.5.246 (192.168.5.246) 56(84) bytes of data.
64 bytes from 192.168.5.246: icmp_seq=1 ttl=64 time=27.3 ms
64 bytes from 192.168.5.246: icmp_seq=2 ttl=64 time=4.36 ms
64 bytes from 192.168.5.246: icmp_seq=3 ttl=64 time=5.65 ms
64 bytes from 192.168.5.246: icmp_seq=4 ttl=64 time=11.5 ms
64 bytes from 192.168.5.246: icmp_seq=5 ttl=64 time=436 ms

--- 192.168.5.246 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4011ms
rtt min/avg/max/mdev = 4.362/96.978/436.074/169.744 ms

```

Ping Test

- Enter the option “0”, to exit the Network Settings

NTP Settings

NTP settings allow users to configure time related configuration for the SoftwareUCM instances created, this allow users to sync the time from the existing defined ntp server, update the ntp server used to retrieve time , or view the current ntp server information

- On system settings menu, Enter option “2” to access NTP settings.
- Enter option “1” to view the current NTP server used

```

Please enter select:
[1] Network Settings.
[2] NTP Settings.
[0] Exit.
2

Please enter select:
[1] View current NTP server and time.
[2] Change NTP server.
[3] Sync time now.
[0] Exit.
1

Current Time: 2025-02-11 08:19:01 UTC
NTP Server: pool.ntp.org

Please enter select:
[1] View current NTP server and time.
[2] Change NTP server.
[3] Sync time now.
[0] Exit.

```

View current NTP Settings

- Enter option “2” to update the current server with a new server from the available NTP servers pool.

```

Please enter select:
[1] View current NTP server and time.
[2] Change NTP server.
[3] Sync time now.
[0] Exit.
2

Please enter NTP server:
1.africa.pool.ntp.org

Changed NTP server successfully.

Please enter select:
[1] View current NTP server and time.
[2] Change NTP server.
[3] Sync time now.
[0] Exit.

```

Update NTP server settings

- Enter option “3” to sync time from the selected NTP server

```

Please enter select:
[1] View current NTP server and time.
[2] Change NTP server.
[3] Sync time now.
[0] Exit.
3

Synced time successfully.

Current Time: 2025-02-11 08:16:58 UTC

```

Sync time from selected servers

System Maintenance

The system maintenance tab allows users to configure different aspects of the system, such as setting user-level passwords, installing specific patches or updates for SoftwareUCM, and enabling SSH access. In this section, we will go over how each option can be used.

- Select option “4” to enter the SoftwareUCM Maintenance settings on the command line.
- To install a new patch, enter “1” for “Install a patch”. The patch package only supports downloads via an HTTP/HTTPS link.

```

Please enter select:
[1] SoftwareUCM Management.
[2] System Information.
[3] System Settings.
[4] Maintenance.
[5] API Configuration.
[0] Exit.
4

Please enter select:
[1] Install patch.
[2] Change password for user "support".
[3] SSH Access.
[4] Disk Expansion (only for virtual machines).
[0] Exit.
1

```

Install Patch

```

Please enter the URL for patch:
https://192.168.130.248:444/softucm/softucm.bin

Start download patch from https://192.168.130.248:444/softucm/softucm.bin
Install patch successfully.

```

URL to download the patch

- Administrators can also change the password of the user by entering the option "2", and by providing the current password and the new password.

```

Please enter select:
[1] Install patch.
[2] Change password for user "support".
[3] SSH Access.
[4] Disk Expansion (only for virtual machines).
[0] Exit.
2

Change password for user "support" (8-32 characters).
Current Password:
New Password:
Retype new password:
Password configured successfully.

```

Change Password

- To enable/disable SSH through the command line, Enter option "3".
- Enter "1" to view the current SSH status.

```

Please enter select:
[1] SoftUCM Manage.
[2] System Status.
[3] Network Settings.
[4] Maintenance.
[0] Exit.
4

Please enter select:
[1] Install a patch.
[2] Change password for user "support".
[3] SSH Access.
[4] Disk Expansion (only for virtual machines).
[0] Exit.
3

Please enter select:
[1] View current SSH status.
[2] Enable SSH.
[3] Disable SSH.
[0] Exit.
1

SSH access status: disabled

Please enter select:
[1] View current SSH status.
[2] Enable SSH.
[3] Disable SSH.
[0] Exit.

```

View Current SSH Status

- Enter "2" to enable SSH. Once enabled, you will be prompted to define the SSH access port and SSH access key.

```

Please enter select:
[1] Install patch.
[2] Change password for user "support".
[3] SSH Access.
[4] Disk Expansion (only for virtual machines).
[0] Exit.
3

Please enter select:
[1] View current SSH status.
[2] Enable SSH.
[3] Disable SSH.
[0] Exit.
1

SSH access status: disabled

Please enter select:
[1] View current SSH status.
[2] Enable SSH.
[3] Disable SSH.
[0] Exit.
2

Please enter SSH port:
21
Please enter SSH access key (8-32 character):
[REDACTED]

Enabled SSH access successfully.

SSH access IP: 192.168.5.155
SSH access port: 21

```

Define SSH Access IP and port

- Enter “3” to disable SSH

```

Please enter select:
[1] View current SSH status.
[2] Enable SSH.
[3] Disable SSH.
[0] Exit.
3

Disabled SSH access successfully.

Please enter select:
[1] View current SSH status.
[2] Enable SSH.
[3] Disable SSH.
[0] Exit.

```

Disabling SSH

Disk Expansion

One additional option that can be configured from the maintenance settings menu is disk expansion. This option is only available when you install the SoftwareUCM tool on a virtual machine, and will allow the users to extend the storage space if needed, the process of expanding the disk memory of the SoftwareUCM hosted depends on the type of virtual machine used. Please refer to the below guides to follow the configuration that suits the virtual machine you are using:

- [VMware Workstation](#)
- [VirtualBox](#)
- [KVM \(Kernel-based Virtual Machine\)](#)
- [HyperV](#)

Need Support?

Can't find the answer you're looking for? Don't worry we're here to help!

[CONTACT SUPPORT](#)