

Grandstream Networks, Inc.

SIP Presence



Introduction

The UCM6XXX is now offering the ability to subscribe to extensions state and to be informed about the current presence status of a coworker phone extension. The added value of SIP Presence is to keep the user advertised on the monitored extension's current general state as well (Available / Away / Chat / Busy / DND / Unavailable...).

Besides the mentioned presence statuses defined by the UCM6XXX, users can create a custom state that can take any format. The monitoring extension can subscribe to the presence status and be updated about any status change.

UCM6xxx includes UCM620x, UCM630x and UCM630xA series, and UCM6510.

The SIP Presence feature improves the users monitoring on the UCM6xxx and extends the MPKs utility on end points. A Busy Lamp is limited in its usability to phone line status, it can provide line connectivity and calling status, but something more informative is required.

This guide will be explicating the SIP Presence feature, and the user should have the UCM6xxx and endpoints supporting Presence Watcher features:

SUBSCRIBE NOTIFY

SIP Presence Feature

The prerequisites in our scenario are as follow:

- UCM6xxx with firmware version 1.0.14.23 or higher.
- A phone supporting presence watcher feature see [SUPPORTED DEVICES] section.

Supported Presence Statuses

The below table explains briefly each presence status supported by the UCM6XXX :

Available	The contact is online and can participate in conversations/phone calls.
Away	The contact is currently away (ex: for lunch break).
Chat	The contact has limited conversation flexibility and can only be reached via chat.
Do Not Disturb	The Contact is on DND (Do Not Disturb) mode.
Custom Presence Status	Please enter the presence status for this mode on the web GUI.
Unavailable	The contact is unreachable for the moment, please try to contact later.

The default status among the listed ones above is '**Available'**, changing it will generate a NOTIFY message that will be sent to all the subscribed presence watchers.

Call Forward

All statuses supported by the UCM6XXX include Call Forward actions as shown in the figure :

resence Status chat ~										
Available Away Chat Cust	Available Away Chat Custom Presence Status Unavailable									
Internal Calls										
Call Forward Always	Extension	~	2005 ~		CFU Time Condition	Out of Office Time				
Call Forward No Answer	Voicemail	~	2004 ~		CFN Time Condition	Office Time ~				
Call Forward Busy	Custom Prompt	~	out-of-service v	🔥 Upload	CFB Time Condition	All Time ~				
External Calls										
				1		s.H wi				

Call Forward from Chat Presence Status

- **Call Forward Always** : Configures the Call Forward Always target number. All incoming calls will always be forwarded to the configured number. If not specified, this feature is disabled.
- **Call Forward No Answer**: Configures the target number to be forwarded to for Call Forward No Answer. Incoming calls that are not answered after ring timeout will be forwarded to the entered extension. If not specified, this feature is disabled.
- **Call Forward Busy**: Configures the target number to be forwarded to for Call Forward Busy. Incoming calls during busy time will be forwarded to the entered extension. If not specified, this feature is disabled.
- CFU Time Condition : Configures unconditional call forwarding based on time condition.

In addition to the Call Forward actions explained above, users can add specific extensions (pattern matching is also supported) to the Forward Whitelist. The extensions configured in the Forward Whitelist will be able to ring the destination directly.

		Add FWD Whitelist	Ð
	2001		•
FWD Whitelist	2005		•

Call Forward Whitelist

Do Not Disturb

When Do Not Disturb Mode is activated, all incoming calls are dropped and call forward settings will be ignored.

Do Not Disturb	* DND Time Condition	All Time 🗸
DND Whitelist		

Do Not Disturb

- DND Whitelist : If DND is enabled, calls from the whitelisted numbers will not be rejected.
- DND Time Condition : The DND mode will take effect while this time condition is satisfied.

Custom Presence Status

Users can also set a new custom state under the "Custom Presence Status" tab, the following figure shows a new custom presence status named "InMeeting":

Presence Status:	Custom Presence Status	~	* Custom Presence Status	s: InMeeting
Available Away	Chat Custom F	Presence Status	Unavailable	
Call Forward Unconditional :	None v		CFU Time Condition:	All Time ~
Call Forward No	None v		CFN Time Condition :	All Time v
Answer: Call Forward Busy:	None v		CFB Time Condition :	All Time v

Custom Presence Status

Setting your Presence Status

Setting Presence Status via Admin Web Interface

The SIP Presence feature on UCM6xxx includes six available statuses, users can access to the UCM **Web GUI→Extension/Trunk→Extensions→Features** and list the different statuses:

Basic Settings	Media		Features	Specific Time	Follow Me		
Call Trar	nsfer						
	Presence Statu:	5:	Available	^]		
	Available	Away	Available		us Unavailable		
	Call Forwa	ard	Chat Do Not Distu	rb	CFU Time Condition:	All Time ×	
	Call Forwa	rd No Ansv	Custom Prese Unavailable	ence Status	CFN Time Condition :	All Time	
	Call Forwa	rd Busy:	None	~	CFB Time Condition :	All Time	
	Do Not Disturb				* DND Time Condition:	All Time	~
	FWD Whitelist:) 🕀		

Presence Status

The above screenshot shows the available statuses, user can select a status depending on their availability and preferences. Once done, a NOTIFY message will be sent to the subscribers announcing the newly defined status.

To simplify the status viewing, a new column was added to the main Extensions page, listing all the extensions Presence Statuses, as displayed in the following figure:

Extens	ions											
+ Ad	d 🗹 Edit 🗊	Delete 🔀 Edit Al	ii SIP Email Notifi	ication ~ More ~				All	 Extension Num 	ber or Nam	e	s
	Status ≑	Presence Status ≑	Extension \$	Name ≑	Message	Type 🌲	IP and Port ≑	Sync to Contacts ≑	Extension Info 💠	Options		
	• Idle	Do Not Disturb	2004		0/0/0	SIP(WebRTC)	192.168.5.64:5060 (Synced	⊠₀	Ľ 4	<u>ں</u> و	
	• Idle	Available	2005		0/1/1	SIP(WebRTC)	192.168.5.64:5062 (Synced	⊵₀	Ľ f	<u>ل</u> و	
	• Idle	Chat	2006		0/0/0	SIP(WebRTC)	192.168.5.233:5060	Synced	⊵₀	Ľ 4	<u>ں</u> و	Û

Extensions Presence Status

Setting Presence Status via User Portal

Users can also login to their portal to view and edit their Presence Status, this feature is available when accessing the user portal and navigating to **Basic Information>Extensions>Features**.

The same six statuses are also available, and users can select any status as displayed in the following screenshot:

Menus		Ē	Extension Information						Save
≣	Basic Information		Basic Settings Features		Specific Time				
	Personal Config		Call Transfer						
	Extensions		Presence Status :	Chat		v			
			Auritable Aurou	C 1-1	Curture Day	Charlen and Charle	line settering		
			Available Away	Chat	Custom Pres	ence Status	Unavailable		
L			Call Forward	None	~		CFU Time Condition:	All Time	~
			Unconditional :						
			Call Forward No Answe	r: None	~		CFN Time Condition :	All Time	~
			Call Forward Busy:	None	~		CFB Time Condition:	All Time	~

Presence Status in User Portal

Setting Presence Status via Feature Code

If the user is not having Web Access, the Presence feature can be accessed using feature code, and users can dial this code to get the corresponding voice prompt with various options in order to choose which presence status they want to put themselves into then follow the instructions to confirm the setting.

The default used feature code for Presence feature is *48, users can access/edit this case from **Web GUI→Call** Features→Feature Codes:

Feature Maps D	ND/Call Forward	Feature Misc	Feature Codes	
Reset All Default All				
* Voicemail Access	*98		* My Voicemail :	*97
Code:				
* Agent Pause :	*83		* Agent Unpause :	*84
* Paging Prefix :	*81	~	* Intercom Prefix :	*80
* Blacklist Add:	*40		* Blacklist Remove :	*41
* Call Pickup on	**	V	* Pickup In-call :	*45
Ringing:				
* Pickup Extension:	*8		* Direct Dial Voicemail	*
			Prefix:	
* Direct Dial Mobile	*88		* Call Completion	*11
Phone Prefix:			Request:	
* Call Completion	*12	V	Enable Spy:	
Cancel :				
* Listen Spy:	*54		* Whisper Spy:	*55
* Barge Spy:	*56		* Wakeup Service:	*36
* PMS Wakeup Servio	ce : *35		* Update PMS Room	*23
			Status :	
* Presence Status :	*48	✓		

Presence Status Feature Code

When dialing the Presence feature code, users have also six available states, below is the order you get on the voice prompt when dialing the feature code:

- 1. Unavailable: Press '1' to set the Available state.
- 2. Available: Press '2' to set Available state.
- 3. Away: Press '3' to set Away state.
- 4. Chat: Press '4' to set Chat state.
- 5. DND: Press '5' to set DND state.
- 6. Custom Presence Status: Press '6' to set the Custom state.

Monitoring Presence Status

Using VMPKs

In our scenario, we will be using a GRP phone to illustrate the use of VMPKs to monitor another SIP entity's Presence status.

Note :

Before proceeding with the presence watcher configuration, **it is importnat to note** that the phone should have a registered SIP accounts on the same UCM6xxx as the monitored extension.

The presence watcher can use one of the available accounts on the phone, at least one should be registered as illustrated on the following screenshot:

Account	SIP User ID	SIP Server	SIP Registrati
Account 1	5001	192.168.5.143	Yes
Account 2			No
Account 3			No
Account 4			No
Account 5			No
Account 6			No
~			

Account Status

Once the phone has a registered account, we can proceed to the presence watcher configuration on the phone's VMPK settings.

The Virtual Multi-Purpose Keys (VPK) configuration page is under the phone's **Web UI**→**Settings**→**Programmable Keys**→**Virtual Multi**-**Purpose Keys** tab. By default, all fixed VPKs are listed:

Virtual N	Aulti-Purpose K	eys				
 If ther An accord Please 	e is an account with no count can only be confi e configure carefully. Cl	Default or Shared mode VPK gured with either Default mod ick to get more help	s configured to it, then de VPKs or Shared moo	the account will not show de VPKs. If there are Defau	up on the screen. it mode and Shared r	node VPKs configu
Order	Mode	Account	Value	Label	Locked	
1	🗢 Line	∨ Account 1	✓ 5001			\odot
2	← Line	∨ Account 2	×			\odot
3	∽ Line	∨ Account 3	V			\odot
4	← Line	∨ Account 4	V			\odot
5	← Line	∨ Account 5	×			\odot
6	∽ Line	∨ Account 6	V			\odot
		V	1PKs Confiauratio	n		

Select "**Presence Watcher**" from the drop-down "**Mode**" menu and choose the monitoring account. Under "**Value**" enter the monitored extension and press "**Save**".

The figure below shows the steps mentioned :

Order	Mode	Account	Value	Label	Locked	
1	← Line ∨	Account 1 🗸 🗸	5001			\odot
2	♣ Presence Watcher ∧	Account 1 🗸 🗸	* 5002			\odot
3	None	~				\odot
4	📽 Shared 🬿 Speed Dial	~				\odot
5	Susy Lamp Field (BLF)					\odot
6	Letter Letter Letter Letter	~				\odot
7	♥ Speed Dial via Active Ac None ∨	~				\odot

VMPKs with Presence Watcher

Users can also use the following p-value to provision the VMPK with Presence Watcher mode:

Mode Name	Mode String	Mode P-Value
Presence Watcher	presencewatcher	12

Presence Watcher P-Value

Once done, the phone will display the new VMPK with the monitored extension and status icon as shown in this screenshot :



Custom Presence Status on GRP261X

Below are some examples of different presence statuses on VMPKs for the GRP260x, GXP21xx and GXP17xx series :



Presence "Away" Status on GRP260X



Presence "DND" Status on GXP21XX



Presence "Chat" Status on GXP17XX

Six presence statuses lead to six VMPKs and icons states. Each status is indicated by a different icon on the LCD and different LED colors and Label colors (GXP21XX, GRP261x, and GRP2624/GRP2634/GRP2636/GRP2650/GRP2670 only).

Please find the icon indications below for different Presence Status:

VPK Mode	State	Icon + Label	LED Status
	Available	1 5001	GREEN
	Away	2 5001	GREEN
Decement Wetcher	Chat	2 5001	RED
Presence watcher	Custom Status	 5001	GREEN
	DND	2 5001	RED
	Unavailable	£ 5001	OFF

VPK Icon Indications on GRP261x

VPK Mode	State	Icon + Label	LED Status
	Available	. 5002	GREEN
	Away	 5002	GREEN
Presence Watcher	Chat	 5002	RED
Trescrice Watcher	Custom Status	 5002	GREEN
	DND	 5002	RED
	Unavailable	2 5002	OFF

VPK Icon Indications on GRP260x

VPK Mode	State	Icon + Label	LED Status
	Available	3003	GREEN
	Away	3003	GREEN
Presence Watcher	Chat	3003	RED
Treschee watcher	Custom Status	2 , 3003	GREEN
	DND	2 3003	RED
	Unavailable	3003	OFF

VPK Icon Indications on GXP21xx

VPK Mode	State	Icon + Label	LED Status
	Available	a 1000	GREEN
	Away	👗 1000	GREEN
Descence Wetcher	Chat	i 1000	RED
Presence watcher	Custom Status	28 1000	GREEN
	DND	a 1000	RED
	Unavailable	is 1000	OFF

VPK Icon Indications on GXP17xx

Using Extension Boards and MPKs

Users have also the ability to set presence watcher on phone MPKs (Multi-purpose Keys), and connected Extension Boards.

For MPKs configuration, similarly to the VMPKs configuration, you need to have a phone supporting Physical Multi-Purpose Keys. For instance, GXP2130 / GXP2160 / GXP1628 / GRP2604 / GRP2614 / GRP2616 / GRP2634 / GRP2636 are offering physical MPKs, and you can do the same configuration for Presence Watcher. This is available on phone **Web** UI->Settings->Programmable Keys->Multi-Purpose Keys.

Note: Using MPKs, the Presence Watcher feature will be limited in comparison with VMPKs and Extension Boards since these two offer the presence state icon and labels in addition to LED indications. The six available Presence Statuses will have the following LED states when using MPKs:

Presence Watcher	Available, Away, Custom Presence Status	GREEN LED
Presence Watcher	Chat, DND	RED LED
Presence Watcher	Unavailable	LED Off

MPKs LED States

Users can also use Extension Boards for Presence Watcher configuration.

- GXP2140 and GXP2170 support extension module GXP2200Ext.
- GRP2615, GRP2624, GRP2650 and GRP2670 support extension module GBX20.

Following are examples of LED status on extension boards:

3002 🕻 🖛 🔤 🖂 🌅	3002 🖚 🔤 🛁 🥥 💭	3002 👁 🔤 🖂 🦳
Available	DND	Unavailable

Ext Presence Status (GXP2200)

Supported Devices

Model	Supported using VPK (Visual Status)	Supported using MPK (LED Status)	Supported using EXT Board (LED Status)	Firmware
		GXP21xx Series		
GXP2130 v2	~	~	×	
GXP2135	~	×	×	
GXP2140	~	×	~	1.0.9.25 or higher
GXP2160	~	~	×	
GXP2170	~	×	~	
	•	GXP17xx Series		
GXP1760/W	~	×	×	
GXP1780	~	×	×	1.0.1.28 or higher
GXP1782	~	×	×	
		GXP16xx Series		
GXP1610/1610P/16 15	×	~	×	
GXP1620/1625	×	~	×	1.0.4.67 or higher
GXP1628	×	~	×	
GXP1630	×	~	×	
		GRP260x Series		

GRP2602	~	×	×		
GRP2603/P	~	×	×	1.0.1.18 or higher	
GRP2604/P	~	~	×		
		GRP261x Series		·	
GRP2612/P/W/G	~	×	×		
GRP2613	~	×	×		
GRP2614	~	~	×		
GRP2615	~	×	~		
GRP2616	~	~	×		
GRP2624	~	×	~	1.0.5.40 01 mghoi	
GRP2634	~	~	×		
GRP2636	~	~	×		
GRP2650	~	×	~		
GRP2670	~	×	~		