

Grandstream Networks, Inc.

UCM6xxx series

Configure Event List BLF



Table of Contents

OVERVIEW.....	3
HOW IT WORKS.....	4
Monitor Remote Extension	4
SIP NOTIFY.....	4
BLF Call Pickup	5
Configure the UCM6XXX.....	7
CONFIGURE SIP END POINT.....	9

Table of Figures

Figure 1: Create New Event List	7
Figure 2: Configure GXV33800 Event List URI.....	9
Figure 3: GXV3380 MPK Widget	10



OVERVIEW

Event list BLF is similar to BLF but in event list the PBX collects the status information from the monitored extensions and sends it out to the subscribers in a single SIP NOTIFY message.

The UCM6XXX event list feature supports the following:

- Add local extensions to the event list for the local users to monitor the extensions' status.
- Add remote extensions in SIP Peer/Register trunk from another UCM6XXX to the event list so the local users can monitor the remote extensions.
- If two UCM6XXXs are synchronized with each other using LDAP sync feature, the remote extensions can be detected automatically for users to manually add them into the event list.

Event list BLF feature can be used in typical office environment such as front desk, boss-secretary scenario, customer support and etc. Users can monitor other extensions locally and remotely, as well as pickup the ringing extension from the BLF key.

Prerequisite:

- Remote extension monitoring via event list BLF works on the UCM6XXX between Peer SIP trunks or Register SIP trunks (register to each other). Therefore, please properly configure SIP trunks on the two UCM6XXXs before using remote BLF feature.
 - The SIP end point needs support event list BLF in order to use the UCM6XXX event list feature to monitor local or remote extensions.
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HOW IT WORKS

Monitor Local Extension

SIP end points (IP Phone) will send SIP SUBSCRIBE to the UCM6XXX. The UCM6XXX will respond 200 OK and send SIP NOTIFY to the SIP end points with the monitored extensions' status.

Monitor Remote Extension

When an event list is created on the UCM6XXX with remote extensions added into the list, the UCM6XXX will send out SIP SUBSCRIBE to the remote UCM6XXX. The remote UCM6XXX will respond 200 OK and send SIP NOTIFY to the UCM6XXX with the remote extensions' status.

After configuring event list BLF, the SIP end points (IP Phone) will send SIP SUBSCRIBE to the UCM6XXX. The UCM6XXX will respond 200 OK and send SIP NOTIFY to the UCM6XXX with all the monitored extensions' status.

SIP NOTIFY

In the SIP NOTIFY sent from the UCM6XXX, there are four different dialog state in the message body. Upon receiving the NOTIFY, the SIP end point will light up the BLF key LED differently to indicate the monitored extension status.

Dialog <state>	BLF Key LED Status	Monitored Extension's Status
Early	Blinking Red	Ringing
Confirmed	Solid Red	Talking
Terminated	Solid Green	Idle/Online
Offline	Off	Offline

1. EARLY

```
<?xml version="1.0" encoding="UTF-8"?>
<dialog-info xmlns="urn:ietf:params:xml:ns:dialog-info" version="27" state="partial"
entity="sip:7009@192.168.5.128">
  <dialog id="7009">
    <state>early</state>
  </dialog>
</dialog-info>
```



2. Confirmed:

```
<?xml version="1.0" encoding="UTF-8"?>
<dialog-info xmlns="urn:ietf:params:xml:ns:dialog-info" version="159" state="partial"
entity="sip:6000@192.168.5.128">
  <dialog id="6000">
    <state>confirmed</state>
  </dialog>
</dialog-info>
```

3. Terminated:

```
<?xml version="1.0" encoding="UTF-8"?>
<dialog-info xmlns="urn:ietf:params:xml:ns:dialog-info" version="159" state="partial"
entity="sip:6000@192.168.5.128">
  <dialog id="6000">
    <state>terminated</state>
  </dialog>
</dialog-info>
```

4. Offline:

```
<?xml version="1.0" encoding="UTF-8"?>
<dialog-info xmlns="urn:ietf:params:xml:ns:dialog-info" version="94" state="partial"
entity="sip:6000@192.168.5.128">
  <dialog id="6000">
    <state>offline</state>
  </dialog>
</dialog-info>
```

BLF Call Pickup

When the monitored extension is ringing (dialog <state> is "early"), the user could press the blinking BLF key to pick up the call for the monitored extension. To successfully pickup the call, the user will need configure the BLF pickup prefix on the SIP end point first. By default, the Grandstream IP phones are pre-configured with ** as the BLF pickup prefix.



When picking up the call by pressing the BLF key, the SIP end point will send SIP INVITE using **+extension number to the UCM6XXX. The UCM6XXX will authenticate the INVITE and respond 200 OK to the SIP end point. It will also send a CANCEL message to the monitored extension. After this, the call will be established between the SIP end point and the caller.



3. Select local extensions from the left list to the right. This is to add local extensions in the event list BLF to be monitored.
4. Select remote extensions from the left list (if any) to the right. The available remote extensions will be displayed only if the local UCM6XXX and the remote UCM6XXX are configured to synchronize.

 **Note:**

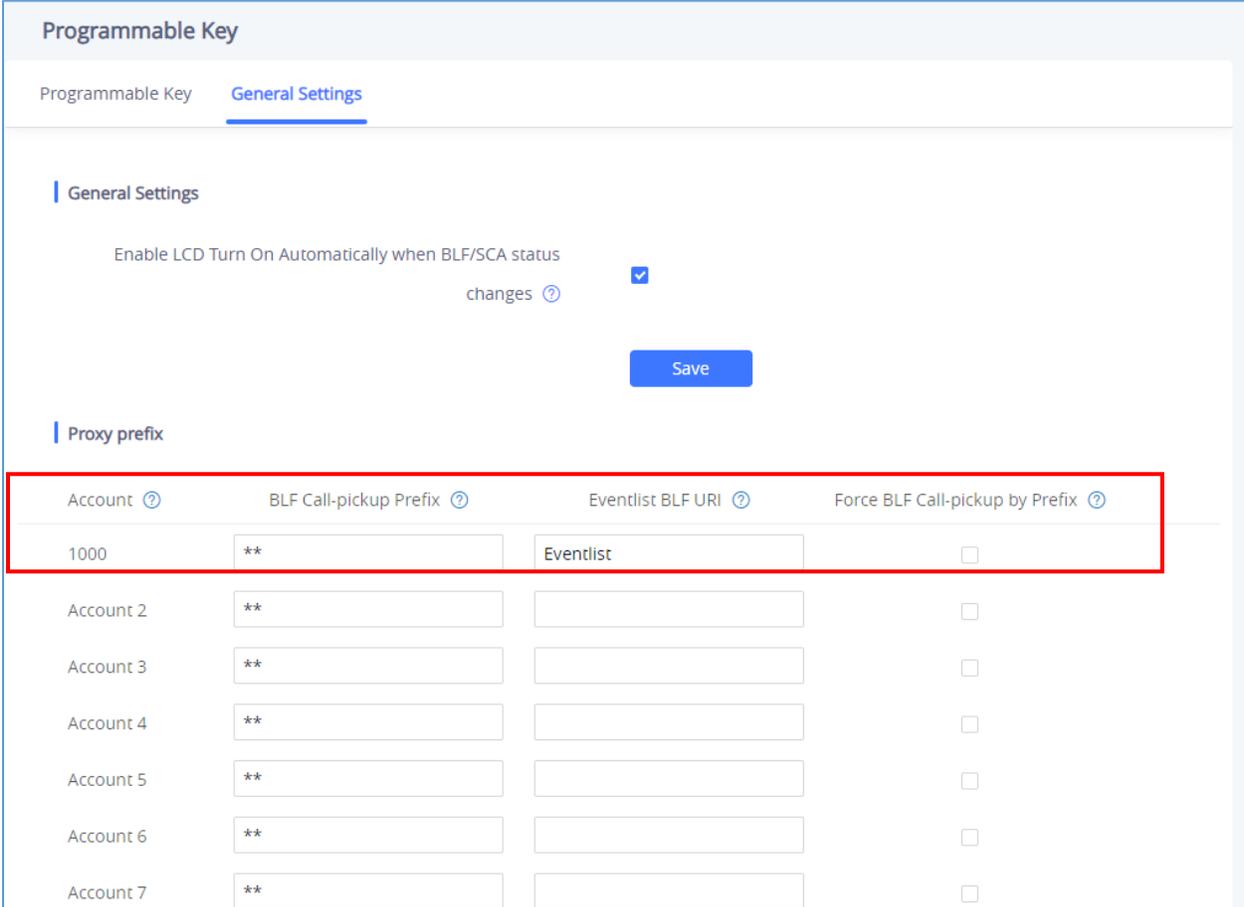
- To configure LDAP sync, please go to UCM6XXX Web GUI→**Extension/Trunk**→**VoIP Trunk**. You will see "Sync LDAP Enable" option. Once enabled, please configure password information for the remote peer UCM6XXX to connect to the local UCM6XXX. Additional information such as port number, LDAP outbound rule, LDAP Dialed Prefix will also be required. Both the local UCM6XXX and remote UCM6XXX need enable LDAP sync option with the same password for successful connection and synchronization.
 - Currently LDAP sync feature only works between two UCM6XXXs.
 - (Theoretically) Remote BLF monitoring will work when the remote PBX being monitored is non-UCM6XXX PBX. However, it might not work the other way around depending on whether the non-UCM6XXX PBX supports event list BLF or remote monitoring feature.
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CONFIGURE SIP END POINT

The following example shows how to configure event list BLF on the GXP3380.

1. The GXV3380 is registered with local UCM6XXX extension on Account 1.
2. Go to GXV3380 **web GUI** → **Applications** → **Programmable Key** → **General Settings**. Fill in the "Event list URI" with the URI configured in UCM6XXX. The default "BLF Call-pickup Prefix" is **, which is compatible with the UCM6XXX.



Programmable Key

Programmable Key **General Settings**

General Settings

Enable LCD Turn On Automatically when BLF/SCA status changes

Save

Proxy prefix

Account	BLF Call-pickup Prefix	Eventlist BLF URI	Force BLF Call-pickup by Prefix
1000	**	Eventlist	<input type="checkbox"/>
Account 2	**		<input type="checkbox"/>
Account 3	**		<input type="checkbox"/>
Account 4	**		<input type="checkbox"/>
Account 5	**		<input type="checkbox"/>
Account 6	**		<input type="checkbox"/>
Account 7	**		<input type="checkbox"/>

Figure 2: Configure GXV33800 Event List URI

3. On the MPK app of the GXV3380, the event list extensions will be automatically populated without additional configuration for each MPK. You shall see the full list of monitored extensions light up in the MPK app when opening the app and on the MPK widget.





Figure 3: GXV3380 MPK Widget