



Grandstream Networks, Inc.

Configuring Permissions Privilege Level Settings on UCM6XXX



Table of Contents

OVERVIEW.....	3
CONFIGURING EXTENSION PERMISSION.....	4
CONFIGURING OUTBOUND ROUTE PRIVILEGE.....	5
CONFIGURING INBOUND ROUTE PRIVILEGE.....	6
CONFIGURING IVR PERMISSION	7

Table of Figures

Figure 1: Create an extension on UCM6XXX	4
Figure 2: Create an Outbound Route on UCM6XXX	5
Figure 3: Create an Inbound Route on UCM6XXX	6
Figure 4: Create an IVR on UCM6XXX - Default Setting	7
Figure 5: Create an IVR on UCM6XXX - Dial Trunk Enabled	8



OVERVIEW

This document introduces the permission and privilege settings on the UCM6XXX series IP PBX. The permission and privilege settings are used to control the calls on extension, IVR, inbound route and outbound route so that the UCM6XXX can securely handle the calls as desired.

The following levels are the four levels of permission/privilege settings on the UCM6XXX:

- **Internal:** The lowest level. This is the default level.
- **Local**
- **National**
- **International:** The highest level.

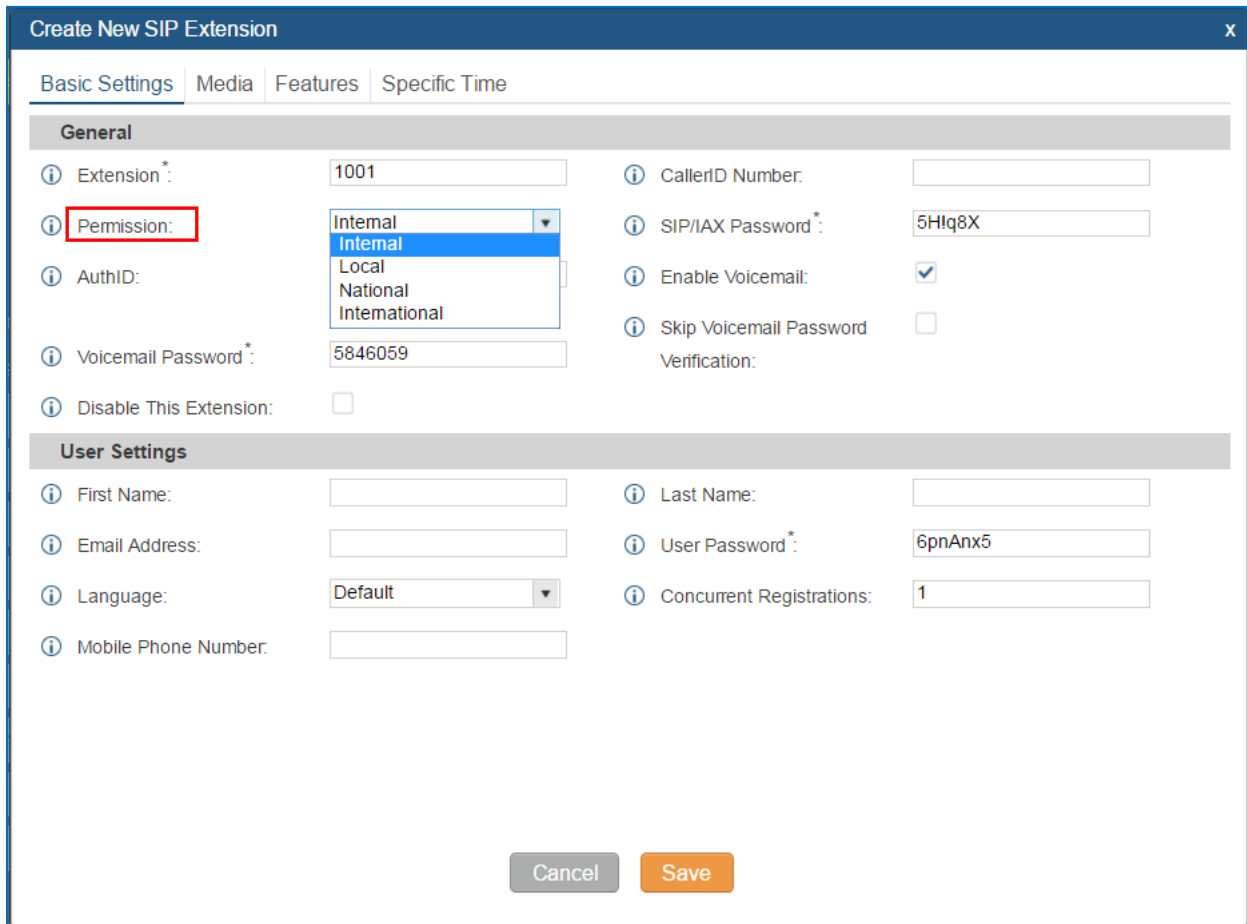
Those options apply to extension setting (Permission), IVR setting (Permission), inbound route setting (Privilege Level) and outbound route setting (Privilege Level).

Note: UCM6XXX series include UCM6100 series (UCM6102, UCM6104, UCM6108 and UCM6116), UCM6200 series (UCM6202, UCM6204 and UCM6208) and UCM6510.



CONFIGURING EXTENSION PERMISSION

On the UCM6XXX web GUI, create an extension under **PBX->Basic/Call Routes->Extensions**. Users shall see "Permission" option with four levels in the drop down list.



The screenshot displays the 'Create New SIP Extension' web GUI. The interface is divided into two main sections: 'General' and 'User Settings'. In the 'General' section, the 'Extension' field is set to '1001', and the 'Permission' dropdown menu is open, showing options: 'Internal', 'Local', 'National', and 'International'. The 'Internal' option is selected and highlighted in blue. The 'AuthID' field is empty, and the 'Voicemail Password' field contains '5846059'. The 'Disable This Extension' checkbox is unchecked. In the 'User Settings' section, the 'First Name' and 'Last Name' fields are empty, the 'Email Address' field is empty, the 'User Password' field contains '6pnAnx5', the 'Language' dropdown is set to 'Default', the 'Mobile Phone Number' field is empty, and the 'Concurrent Registrations' field is set to '1'. The 'Enable Voicemail' checkbox is checked, and the 'Skip Voicemail Password Verification' checkbox is unchecked. At the bottom of the form, there are 'Cancel' and 'Save' buttons.

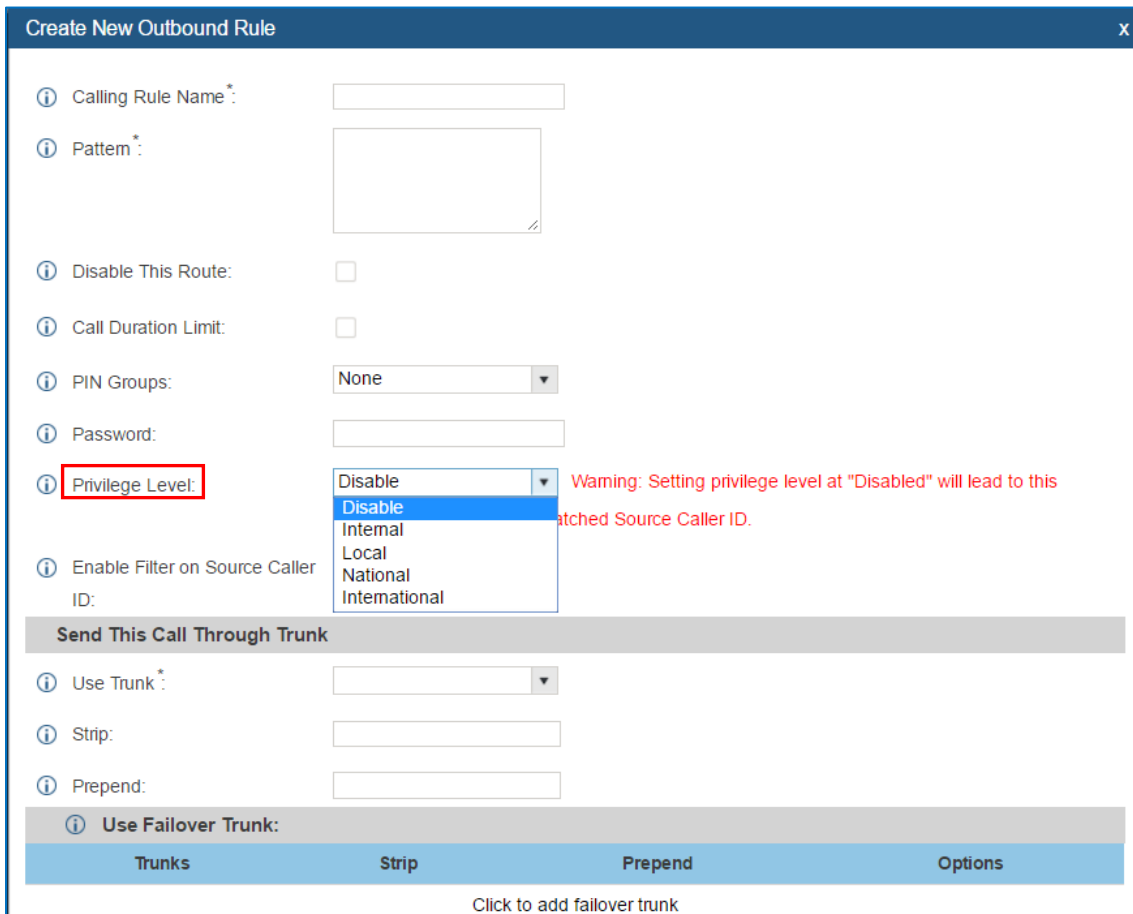
Figure 1: Create an extension on UCM6XXX

This "**Permission**" option restricts whether this extension could be used to make desired outgoing calls. The extension needs to be assigned with higher level (or equal level) permission compared to the outbound rule's privilege in order to make outbound calls with that rule.



CONFIGURING OUTBOUND ROUTE PRIVILEGE

When creating a new outbound rule under **PBX->Basic/Call Routes->Outbound Routes**, users shall see "Privilege Level" option with four levels in the drop down list.



The screenshot shows the 'Create New Outbound Rule' configuration interface. The 'Privilege Level' dropdown menu is open, displaying the following options: Disable, Internal, Local, National, and International. A red box highlights the 'Privilege Level' label. A red warning message states: 'Warning: Setting privilege level at "Disabled" will lead to this matched Source Caller ID.'

Figure 2: Create an Outbound Route on UCM6XXX

When making an outbound call via this route from an UCM6XXX extension, the UCM6XXX will compare the extension's permission level with the outbound route's privilege level. If the extension's permission level is higher than (or equal to) the outbound route's privilege level, the call will be allowed to go through.

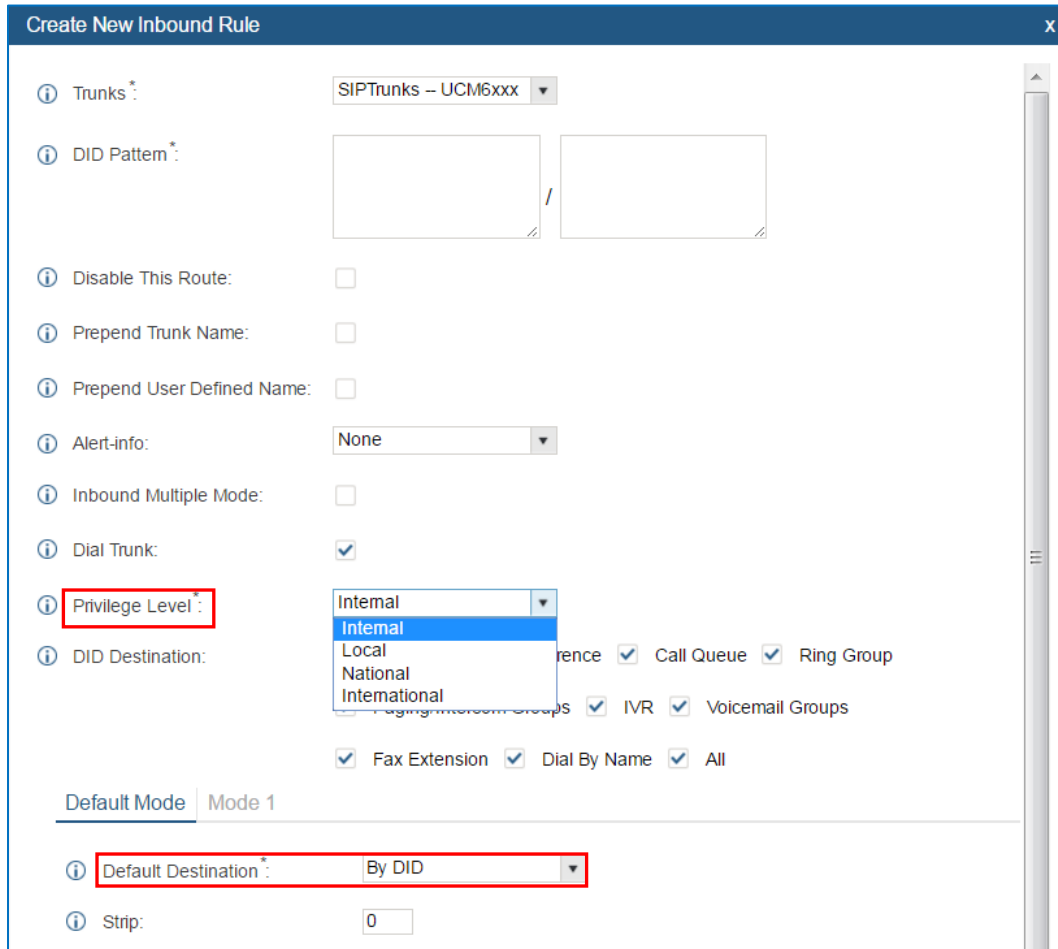
Please see more descriptions below:

- **Disable:** It can only be used by matched Source Caller ID.
- **Internal:** The lowest level required. All users can use this rule.
- **Local:** Users with Local, National, or International level are allowed to use this rule.
- **National:** Users with National or International level are allowed to use this rule.
- **International:** The highest level required. Only users with international level can use this rule.



CONFIGURING INBOUND ROUTE PRIVILEGE

When creating a new inbound rule under **PBX->Basic/Call Routes->Inbound Routes**, users shall see "Privilege Level" option with four levels in the drop down list.



The screenshot shows the 'Create New Inbound Rule' configuration window. The 'Privilege Level' dropdown menu is open, showing options: Internal, Internal, Local, National, and International. The 'Default Destination' is set to 'By DID'. Other visible settings include 'Trunks' set to 'SIPTrunks -- UCM6xxx', 'Dial Trunk' checked, and 'Default Mode' set to 'Mode 1'.

Figure 3: Create an Inbound Route on UCM6XXX

This "**Privilege Level**" option applies to the inbound rule only when "Default Destination" is set to "by DID" and "Dial Trunk" option is enabled. (IVR is handled in a different way; the other options in the "Default Destination" can be considered as internal extension on the UCM6XXX)

When there is an inbound call from the trunk to the UCM6XXX via this inbound route, the UCM6XXX will compare the inbound route's privilege level with the matching outbound route's privilege level (i.e, the DID pattern in this inbound route matches one of the outbound route). If the inbound route's privilege level is higher than (or equal to) the matching outbound route's privilege level, the call will be allowed to go through.



CONFIGURING IVR PERMISSION

When creating an IVR under **PBX->Call Features->IVR**, users shall see "Dial Trunk" and "Permission" options. By default, the "Dial Trunk" option is disabled. Also, the "Permission" level is set to "Internal" (lowest level) and not configurable.

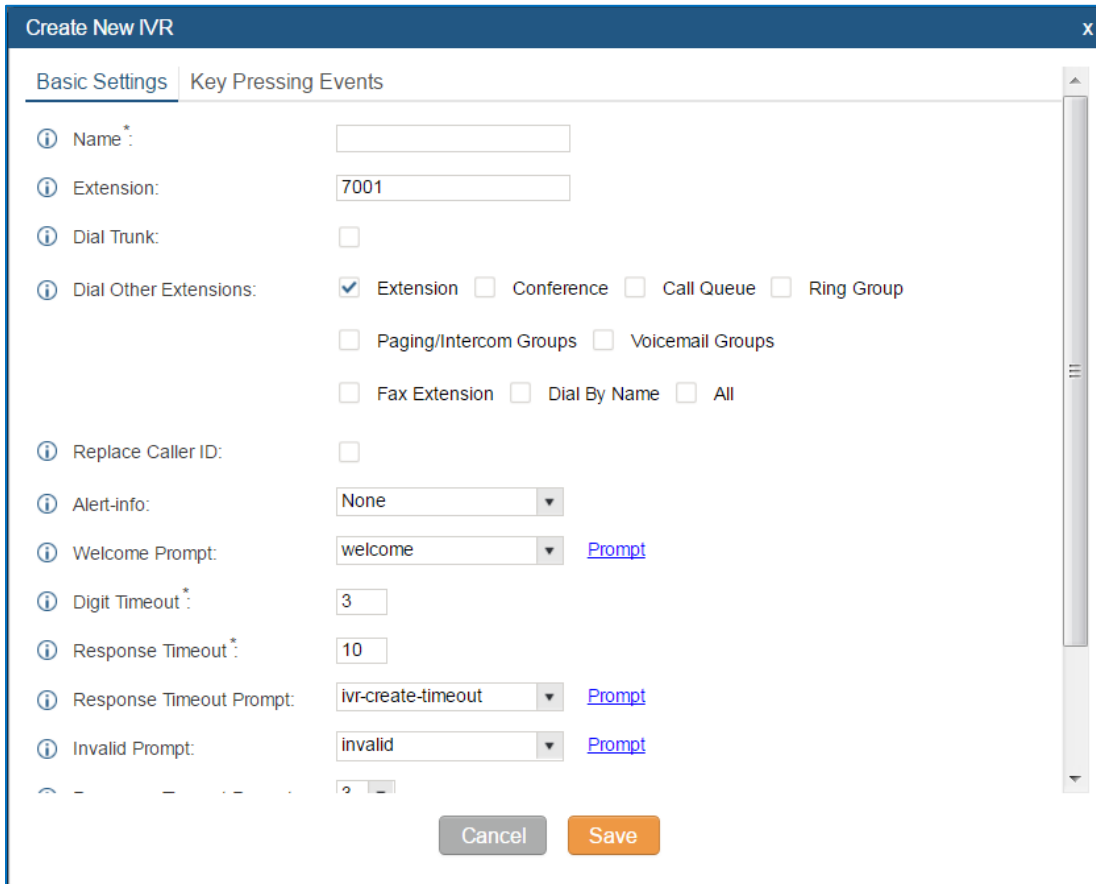
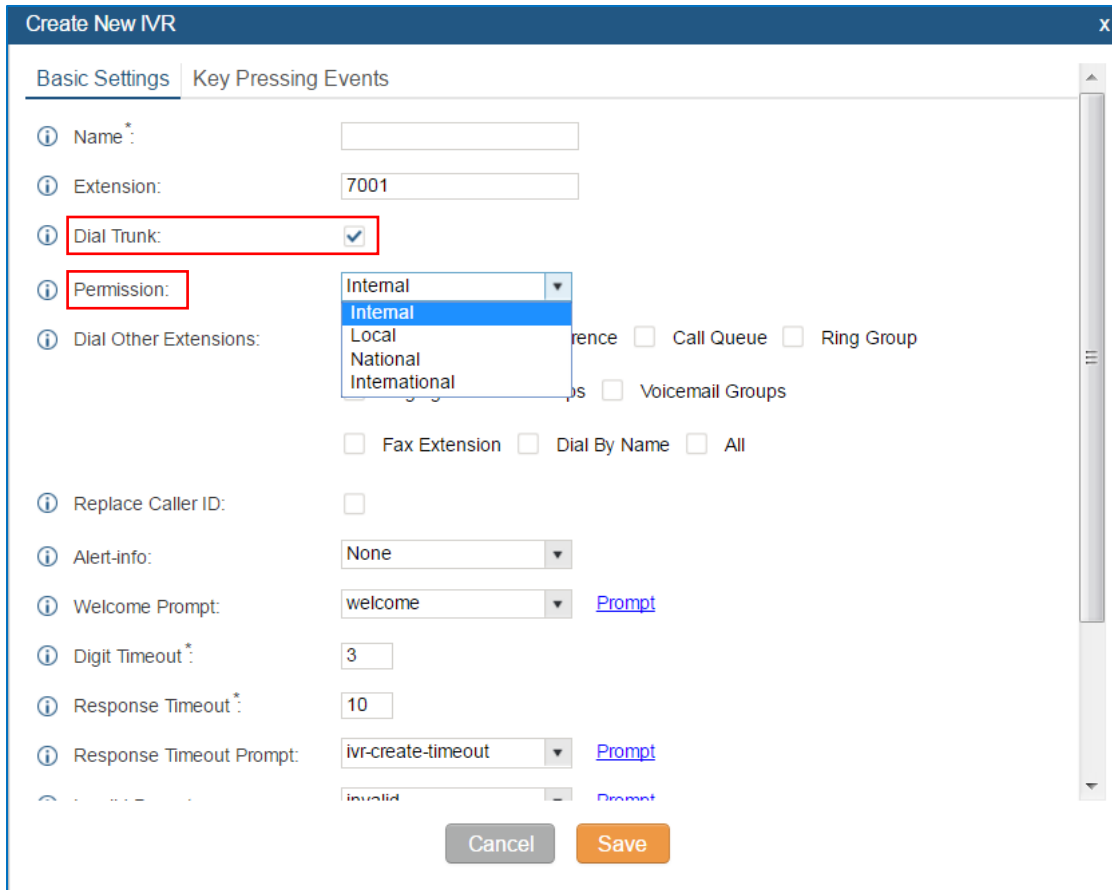


Figure 4: Create an IVR on UCM6XXX - Default Setting

If "**Dial Trunk**" is enabled, users could specify the IVR permission level. Therefore, the calls coming into IVR can dial outbound via trunk. In this case, the UCM6XXX will compare the IVR's permission level with the outbound route's privilege level. If the IVR's permission level is higher than (or equal to) the outbound route's privilege level, the call will be allowed to go through.





Create New IVR

Basic Settings | Key Pressing Events

Name*:

Extension:

Dial Trunk:

Permission: (Dropdown menu open showing: Internal, Internal, Local, National, International)

Dial Other Extensions: Reference Call Queue Ring Group
 Voicemail Groups

Fax Extension Dial By Name All

Replace Caller ID:

Alert-info:

Welcome Prompt: [Prompt](#)

Digit Timeout*:

Response Timeout*:

Response Timeout Prompt: [Prompt](#)

[Prompt](#)

Figure 5: Create an IVR on UCM6XXX - Dial Trunk Enabled

