

R a i n b o w C T I & M e d i a B r i d g e (O P E N S C A P E 4 0 0 0) -

A D M I N I S T R A T I O N G U I D E

Rainbow CTI & Media Bridge



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1 Document History

Edition	Date	Changes / Comments / Details
01	15/09/2021	Initial Administration Guide.

2 Introduction

2.1 Overview - The Product

Rainbow CTI & Media Bridge works with a number of telephone systems e.g. Cisco Call Manager, Asterisk, NEC 3C etc. This document describes the administration of Rainbow CTI and Media Bridge for OpenScape 4000.

Rainbow CTI & Media Bridge application is installed on a local machine in customer premises. It connects with Rainbow Server to push the list of extensions so that they can be associated to Rainbow Users for CTI and VOIP calling, and it also interacts with third-party telephone systems to monitor those extensions for signaling information and call controls.

For other third-party telephony systems, please refer to their respective documentation available at <https://support.openrainbow.com>.

This document is a step-by-step guide for any technical engineer to configure the software.

2.2 Overview - The Guide

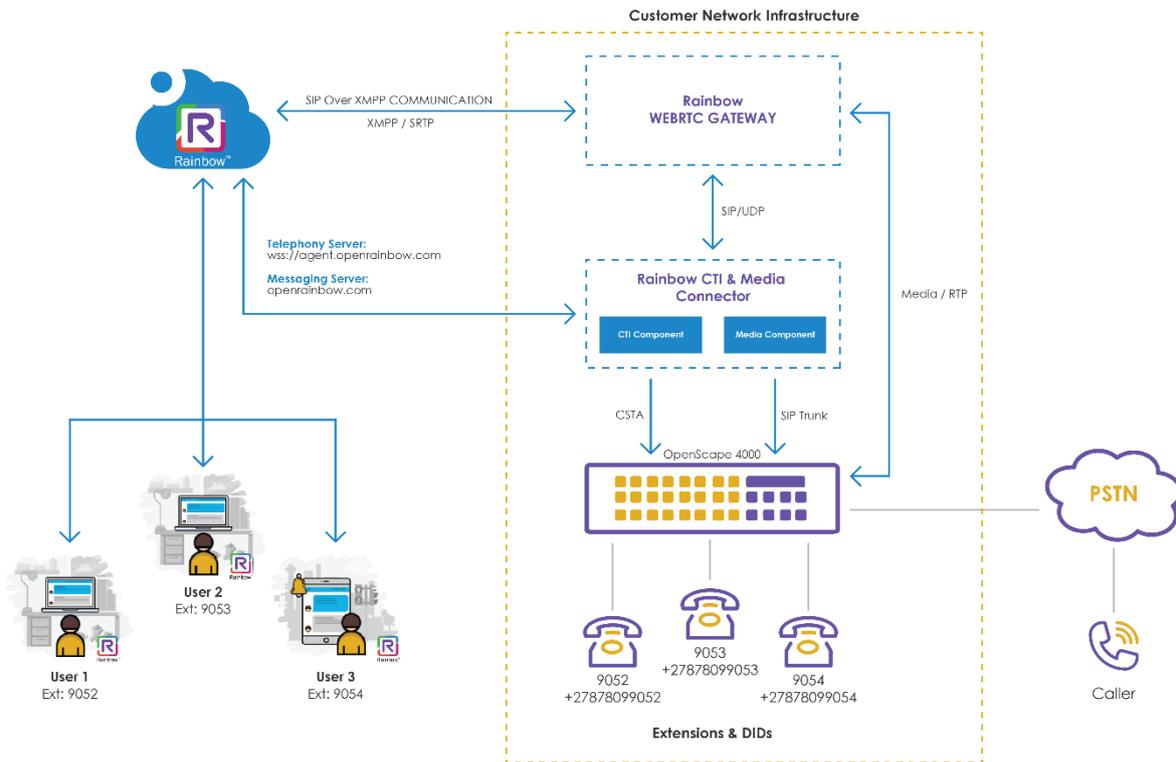
The Admin guide comes into effect once the installation is finished and its target audiences are System Administrators. This guide will walk through the administrative steps required for initial configuration and subsequent software maintenance.

The guide begins with an overview along with screenshots of the application to give the reader an understanding of the user interface design.

A “Table of Contents” is provided at the beginning of this guide with hyperlinks for the ease of navigation.

2.3 Architecture Diagram

Rainbow - CTI & Media Bridge

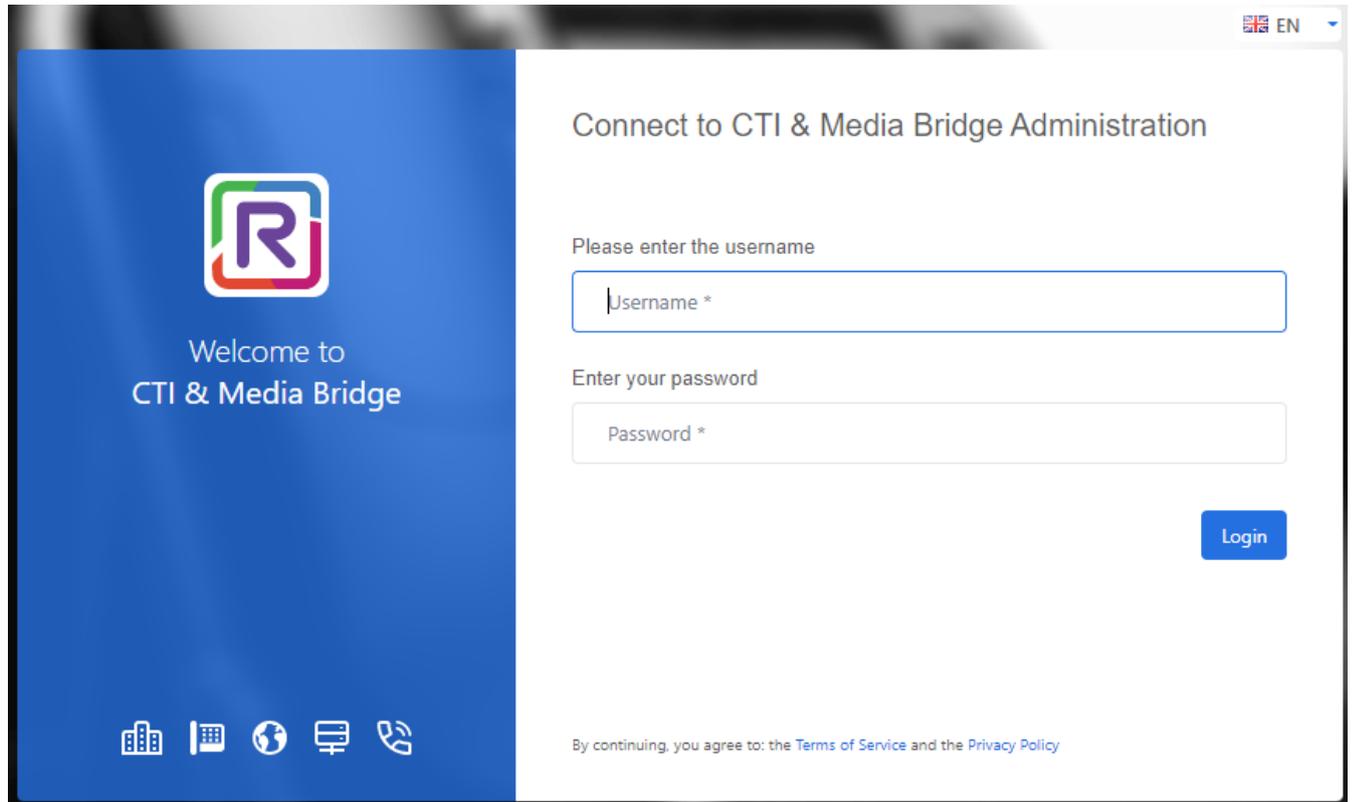


3 Configuration

3.1 Administration - Startup

Launch Rainbow CTI & Media Bridge web administration interface by clicking on the shortcut

icon  on the Windows desktop. This will display a login screen as shown below:



Please enter following credentials when you are logging into the Rainbow CTI & Media Bridge for the first time after installation:

Username: admin

Password: admin

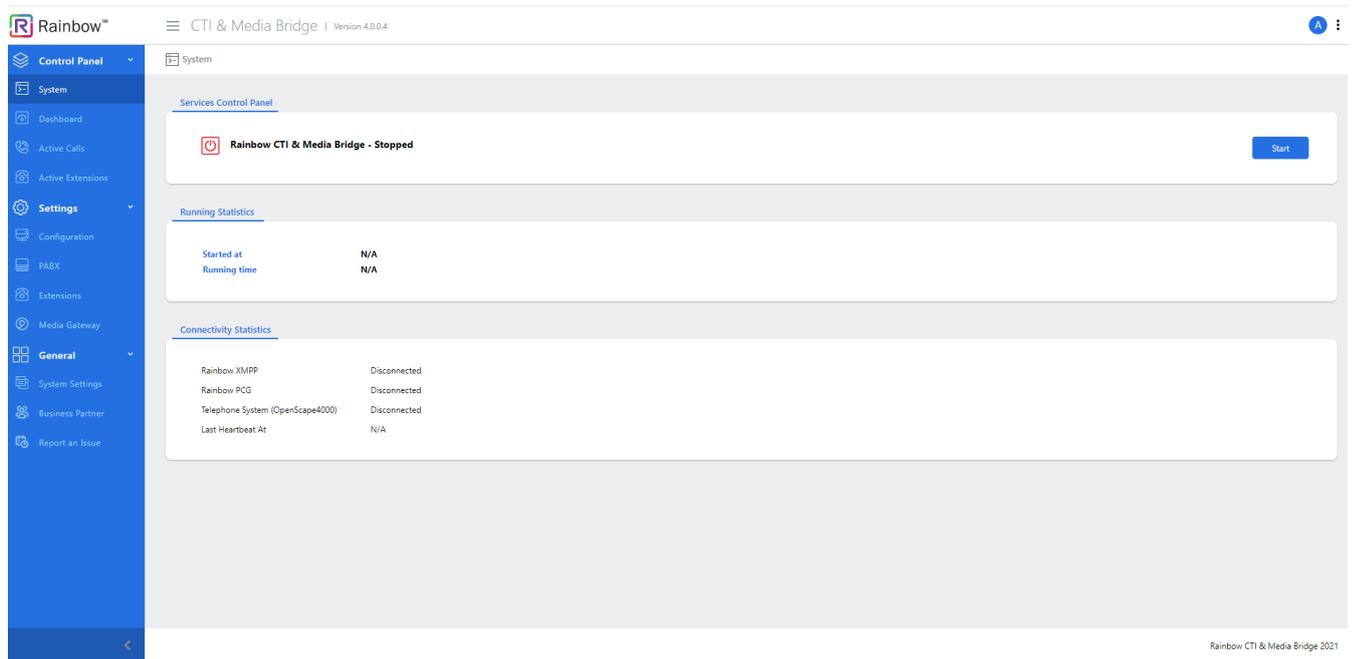
Once logged in, a web interface is displayed that will allow you to navigate around application using the left vertical panel.

The options are grouped under the following categories:

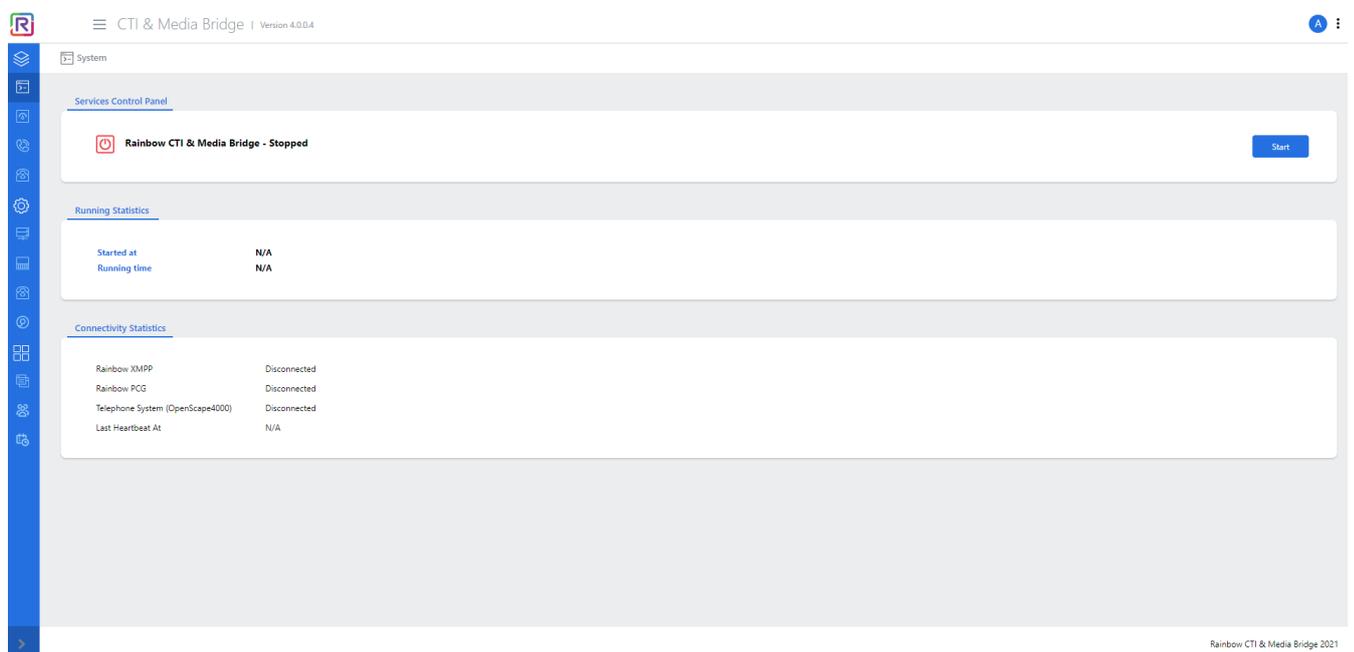
- Control Panel
- Settings
- General

The options can be collapsed and expanded by clicking on the above categories.

There is also a slider control at the bottom that can be used to minimize or maximize the left-hand panel.



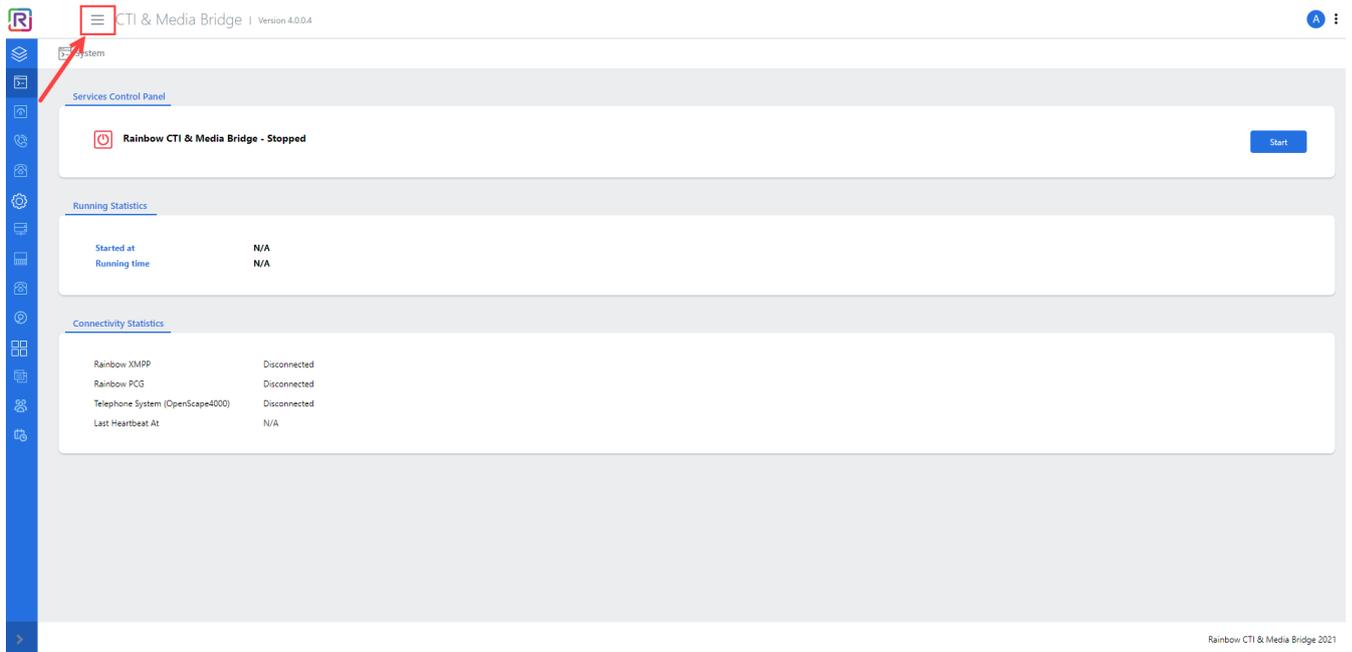
Screenshot-Slider Control with Left Hand Panel Displayed



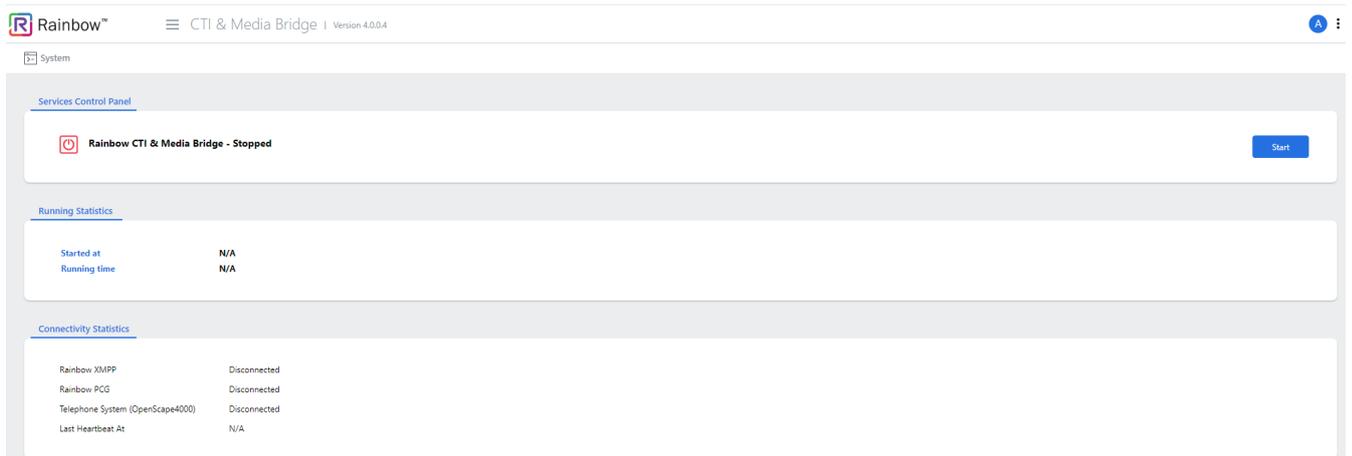
Screenshot-Slider Control with Left Hand Panel Hidden

Similarly, click on the slider control again to show the left-hand panel.

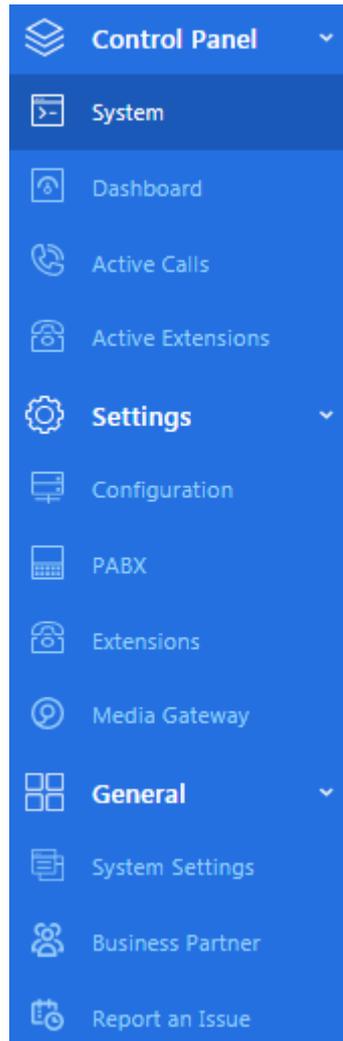
You can also click on  icon next to application title as highlighted below:



This action will hide the entire left panel as shown below:



Below is the full view of that left panel:



Screenshot - Complete list of links in left menu

For every click on the left menu, the main page to the right will change to the corresponding display. As an administrator, it is your responsibility to provide requisite configuration details in each section and customize the application according to your particular requirements. We recommend that you work on these links, in the following order:

- Configuration
- PABX
- Media Gateway
- System
- System Settings

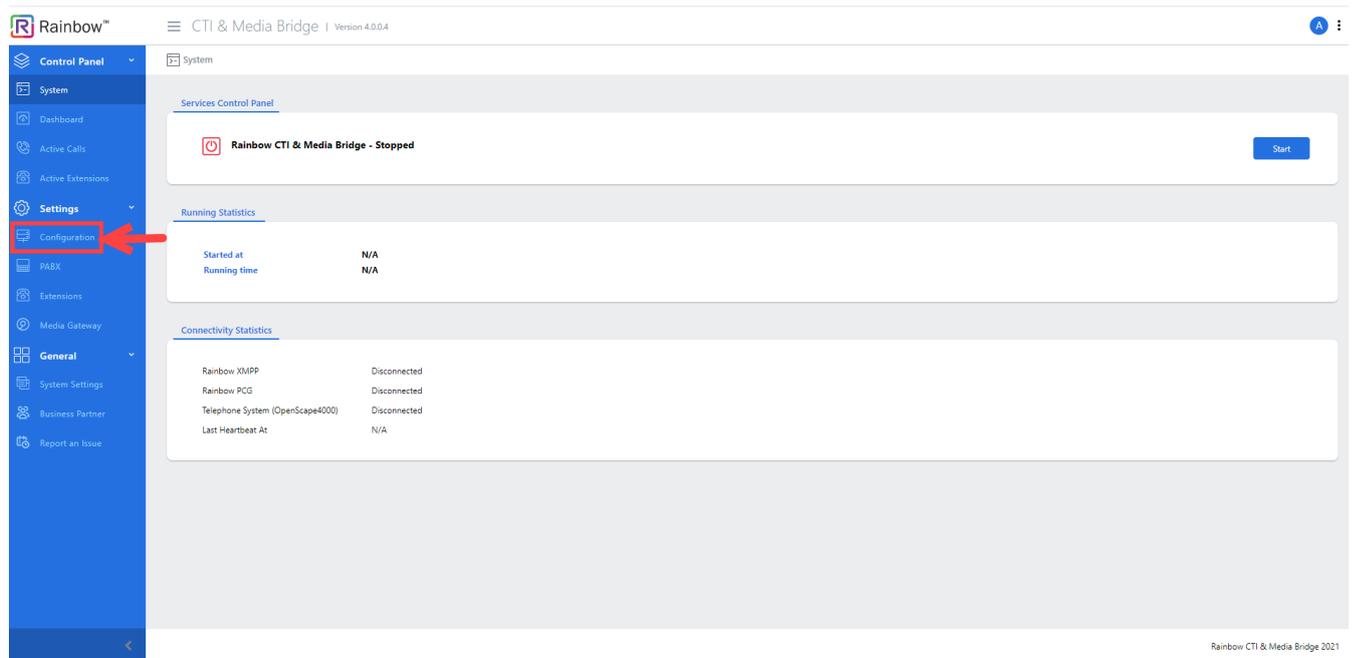
Once you have provided required information in each section, please click on Update/Save button for that section.

Noe: The administration application can also be opened by entering a URL i.e. <http://<IP address>/webAdmin/> e.g. <http://172.20.1.121/webadmin>

3.2 Configuration Settings

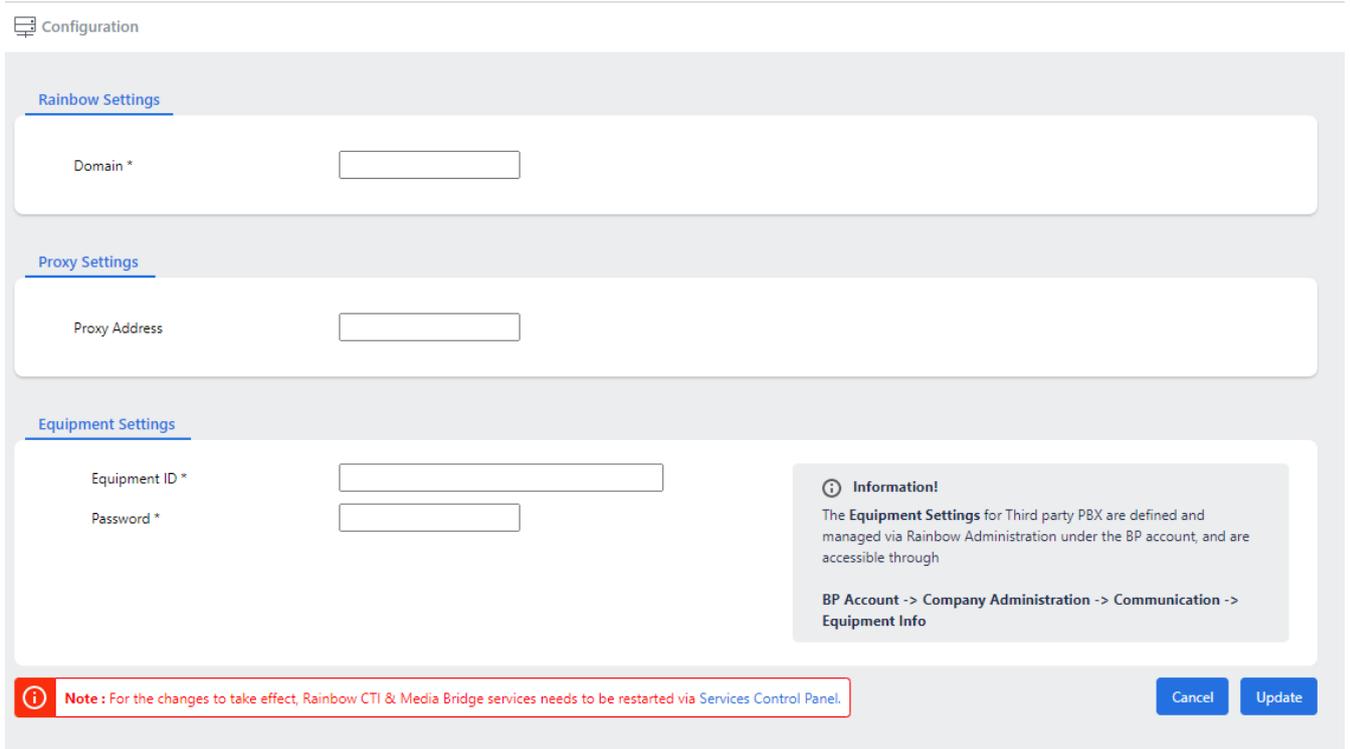
Rainbow CTI & Media Bridge is required to connect with the main Rainbow Server to enable telephony integration. The configuration settings are entered usually during the first time setup; however, they can be updated at any time, if needed.

Go to configuration page by clicking on the Configuration tab from the left menu, as shown below.



Screenshot-System

You will be presented with the screen, as shown below:



Configuration

Rainbow Settings

Domain *

Proxy Settings

Proxy Address

Equipment Settings

Equipment ID *

Password *

Information!
The **Equipment Settings** for Third party PBX are defined and managed via Rainbow Administration under the BP account, and are accessible through
BP Account -> Company Administration -> Communication -> Equipment Info

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#).

Cancel Update

Rainbow CTI & Media Bridge 2021

1jScreenshot-Configuration

The relevant page is displayed which has the following main sections.

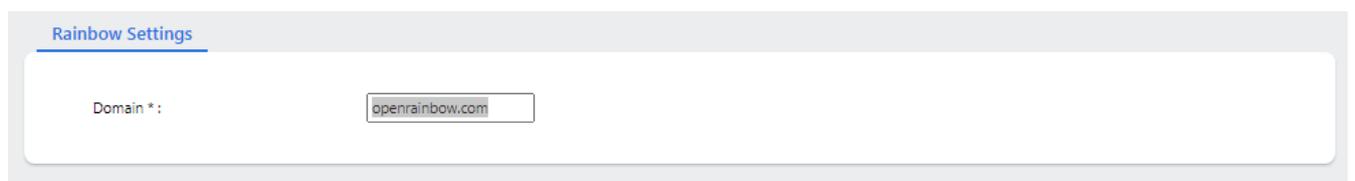
- **Rainbow Settings**
- **Proxy Settings**
- **Equipment Settings**

A screenshot of each section is illustrated below and a separate explanation for each is written underneath the item.

3.2.1 Rainbow Settings

Rainbow fulfillment team with your company's subscription confirmation will provide these settings. The default value for this section is set to 'openrainbow.com', which is valid for the production sites.

Please enter the provided information accordingly, as shown below for illustration.



Rainbow Settings

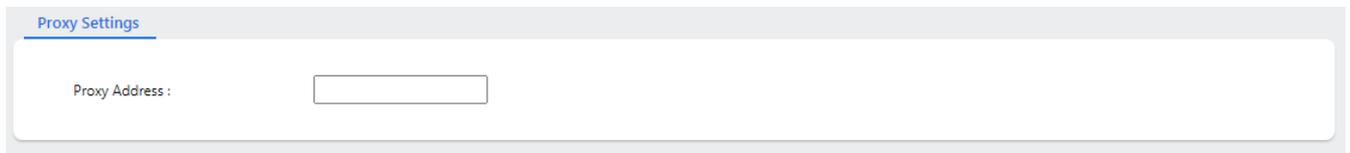
Domain * :

Screenshot-Rainbow Settings

3.2.2 Proxy Settings

If a company has a proxy setup in place for outgoing traffic, the proxy address shall be provided as part of the configuration. It is important to note that this field is optional.

Please enter the provided information accordingly, as shown below for illustration.



The screenshot shows a web interface for 'Proxy Settings'. At the top left, there is a blue header with the text 'Proxy Settings'. Below this, there is a label 'Proxy Address :' followed by an empty rectangular input field.

Screenshot- Proxy Settings

3.2.3 Equipment Settings

Equipment ID is generated by Rainbow system and shall be provided by Rainbow fulfillment team/business partner with your company's subscription confirmation.

Please enter the provided information accordingly, as shown below for illustration.



The screenshot shows a web interface for 'Equipment Settings'. At the top left, there is a blue header with the text 'Equipment Settings'. Below this, there are two input fields: 'Equipment ID *' with the value 'PBX78d4-5910-e92e-4a33-b5f2-e336-14b2-8a7b' and 'Password *' with a masked value '.....'. To the right of these fields is an 'Information!' box with a blue icon. The text in the information box reads: 'The Equipment Settings for Third party PBX are defined and managed via Rainbow Administration under the BP account, and are accessible through BP Account -> Company Administration -> Communication -> Equipment Info'.

Screenshot-Equipment Settings

Finally, once you have entered the details into each field, click **Update**, as shown below.

Configuration

Rainbow Settings

Domain *

Proxy Settings

Proxy Address

Equipment Settings

Equipment ID *

Password *

Information!

The **Equipment Settings** for Third party PBX are defined and managed via Rainbow Administration under the BP account, and are accessible through

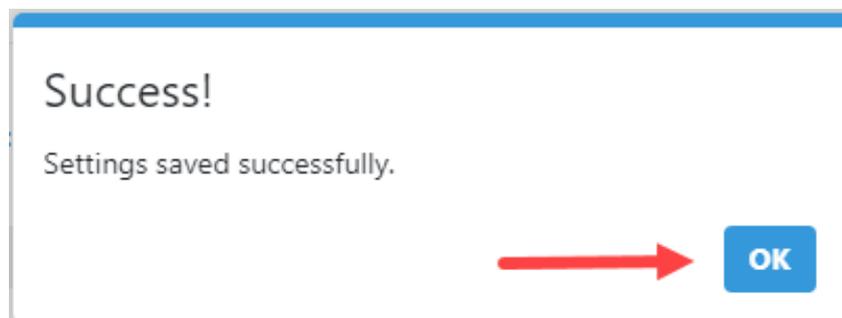
BP Account -> Company Administration -> Communication -> Equipment Info

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

Rainbow CTI & Media Bridge 2021

Screenshot-Configuration

You will be presented with the popup window, click **OK**, as shown below.



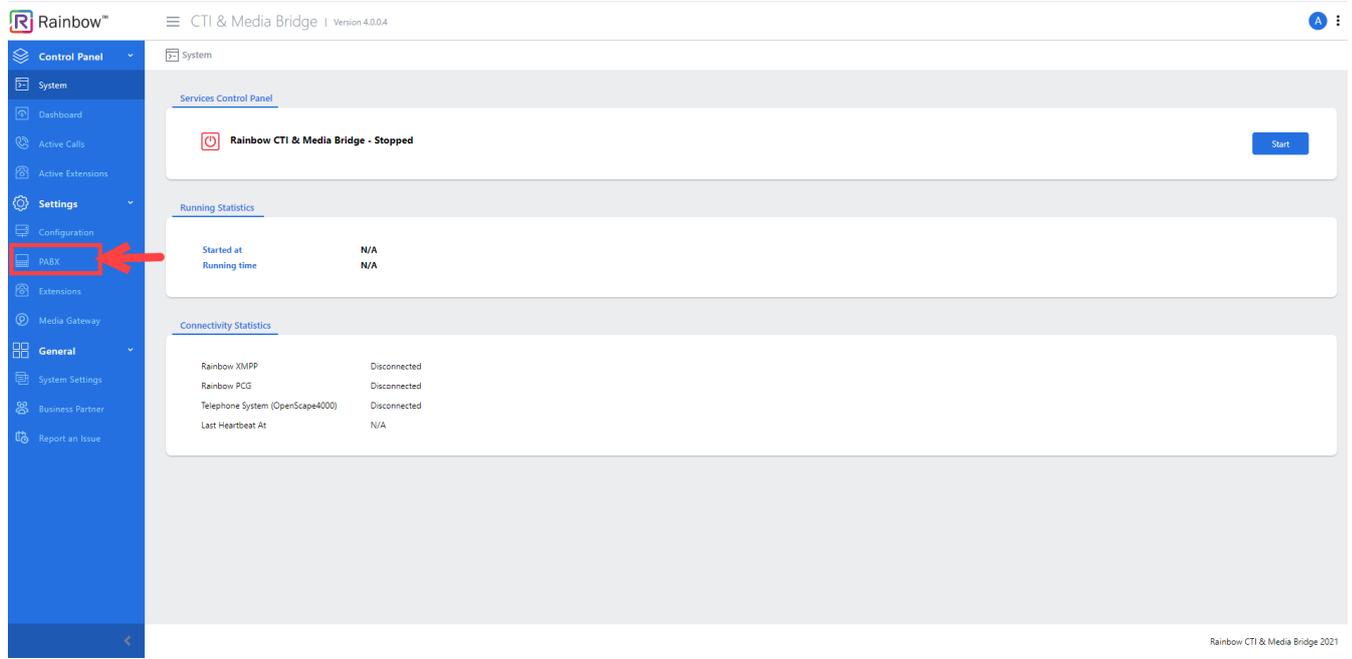
Screenshot-Message from application

NOTE: Once successfully configured, do not change these settings unless advised by Rainbow Support team.

3.3 PABX Settings

Rainbow CTI & Media Bridge is required to connect to OpenScape 4000 telephone system to get phonebook information and also to get telephony events and perform call controls.

Click on the PABX tab from the left menu on the screen, as shown.



Screenshot- System

You will be presented with the screen, as shown below:

PABX

Connectivity Settings

Friendly Name

CSTA Connection Details

IP Address *

Port *

Username

Password

Voice Gateway

Desk Extension Length

External Outbound Prefix

ⓘ CSTA Connection Details

The CSTA settings are required to establish a communication channel with **openscape4000** for call controls and signaling information.

This includes the IP address and port on which CSTA services are configured and running in **openscape4000**. Username and password will be required for cases where **openscape4000** requires an authenticated connection to CSTA.

SIP Trunk Settings

Port *

Prefix *

Deflect Prefix

ⓘ SIP Trunk Setup!

A SIP trunk setup is required between **openscape4000** and **Rainbow CTI & Media Bridge** application. In **openscape4000**, the SIP trunk should have following set of configurations:

- Disable digest authentication
- No authentication enablement
- UDP as transport medium
- Destination address is the machine IP address on which **Rainbow CTI & Media Bridge** application is installed
- 183** Session in progress enablement to provide ringtone to Rainbow users while making outbound calls
- G711 u-law** should be enabled

Deflect Prefix

It is only required when SIP trunk in **openscape4000** is configured to attach an additional prefix while transferring the call from **openscape4000** to CTI & Media Bridge application. It is mandatory that this prefix should be removed by the PABX after the call is transferred to CTI & Media Bridge application. Hence, the 'To' party in INVITE packet should display the number without this prefix.

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

The relevant page is displayed which has the following main sections.

- **Connectivity Settings**
- **SIP Trunk Settings**

A screenshot of each section is illustrated below and a separate explanation for each is written underneath the item.

3.3.1 Connectivity Settings

Friendly Name field is usually the name that organization has given to the installed telephone system and it is only for better readability purposes. This becomes particularly useful when there are more than one telephony systems in an organization and in that case only IP addresses do not help the administrators to quickly identify the respective systems.

The default value for this field is set to 'OpenScape 4000' but it can be changed.

IP Address and Port:

Please provide IP address and port number of OpenScape 4000 PBX in these fields.

Username and Password:

These credentials can be found in OpenScape 4000 user interface. It is important that the provided user is correctly setup in PBX for integration to work properly.

Voice Gateway IP:

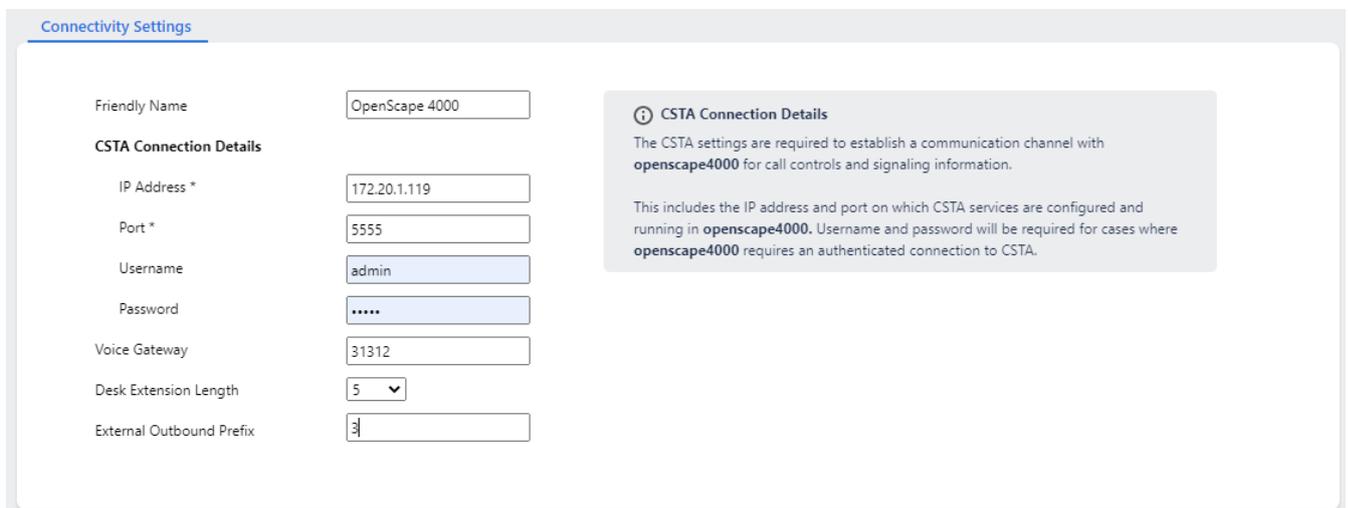
Provide IP Address for Voice Gateway in case OpenScape 4000 is using an external voice gateway.

Desk Extension Length:

Enter the number of characters that an extension will comprise of in this field e.g. if extensions in your organization range between 100-999 then you will select 3 as your desk extension length.

External Outbound Prefix

Enter the prefix that must be affixed with extension when used for external outbound calls.



Connectivity Settings

Friendly Name: OpenScape 4000

CSTA Connection Details

IP Address *: 172.20.1.119

Port *: 5555

Username: admin

Password:

Voice Gateway: 31312

Desk Extension Length: 5

External Outbound Prefix: 3

CSTA Connection Details
The CSTA settings are required to establish a communication channel with **openscape4000** for call controls and signaling information.
This includes the IP address and port on which CSTA services are configured and running in **openscape4000**. Username and password will be required for cases where **openscape4000** requires an authenticated connection to CSTA.

Screenshot- PABX

3.3.2 SIP Trunk Settings

Provide configurations for SIP Trunk setup in this sections that are required for connectivity between OpenScape 4000 and Rainbow CTI & Media Bridge application. Provide SIP Trunk port address and prefix that will be affixed with the extensions operating with SIP Trunk server. Also provide deflect prefix if SIP Trunk in OpenScape 4000 is configured to attach an additional prefix while transferring the call from OpenScape 4000 to CTI & Media Bridge application.

SIP Trunk Settings

Port *	<input type="text" value="5060"/>
Prefix *	<input type="text"/>
Deflect Prefix	<input type="text"/>

SIP Trunk Setup!

A SIP trunk setup is required between **openscape4000** and **Rainbow CTI & Media Bridge** application. In **openscape4000**, the SIP trunk should have following set of configurations:

- Disable digest authentication
- No authentication enablement
- UDP as transport medium
- Destination address is the machine IP address on which **Rainbow CTI & Media Bridge** application is installed
- 183** Session in progress enablement to provide ringtone to Rainbow users while making outbound calls
- G711 u-law** should be enabled

Deflect Prefix

It is only required when SIP trunk in **openscape4000** is configured to attach an additional prefix while transferring the call from **openscape4000** to CTI & Media Bridge application. It is mandatory that this prefix should be removed by the PABX after the call is transferred to CTI & Media Bridge application. Hence, the 'To' party in INVITE packet should display the number without this prefix.

Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#).

Cancel Update

Screenshot- SIP Trunk Settings

Once you have entered the details into each field, click **Update** as shown below:

PABX

Connectivity Settings

Friendly Name	<input type="text" value="OpenScape4000"/>
---------------	--

CSTA Connection Details

IP Address *	<input type="text" value="172.20.0.22"/>
Port *	<input type="text" value="5056"/>
Username	<input type="text" value="admin"/>
Password	<input type="password" value="....."/>
Voice Gateway	<input type="text" value="172.20.0.1"/>
Desk Extension Length	<input type="text" value="6"/>
External Outbound Prefix	<input type="text" value="9"/>

CSTA Connection Details

The CSTA settings are required to establish a communication channel with **openscape4000** for call controls and signaling information.

This includes the IP address and port on which CSTA services are configured and running in **openscape4000**. Username and password will be required for cases where **openscape4000** requires an authenticated connection to CSTA.

SIP Trunk Settings

Port *	<input type="text" value="5060"/>
Prefix *	<input type="text" value="6"/>
Deflect Prefix	<input type="text" value="95"/>

SIP Trunk Setup!

A SIP trunk setup is required between **openscape4000** and **Rainbow CTI & Media Bridge** application. In **openscape4000**, the SIP trunk should have following set of configurations:

- Disable digest authentication
- No authentication enablement
- UDP as transport medium
- Destination address is the machine IP address on which **Rainbow CTI & Media Bridge** application is installed
- 183** Session in progress enablement to provide ringtone to Rainbow users while making outbound calls
- G711 u-law** should be enabled

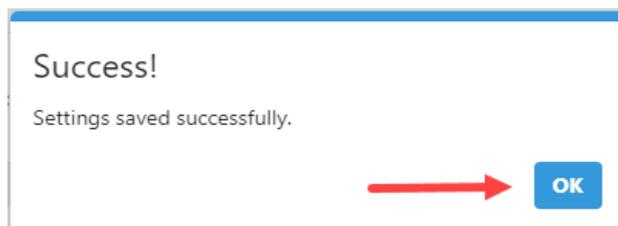
Deflect Prefix

It is only required when SIP trunk in **openscape4000** is configured to attach an additional prefix while transferring the call from **openscape4000** to CTI & Media Bridge application. It is mandatory that this prefix should be removed by the PABX after the call is transferred to CTI & Media Bridge application. Hence, the 'To' party in INVITE packet should display the number without this prefix.

Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#).

Cancel Update

You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

NOTE: *Once successfully configured, restart the Rainbow CTI & Media Bridge service for changes to take effect.*

3.4 Media Gateway

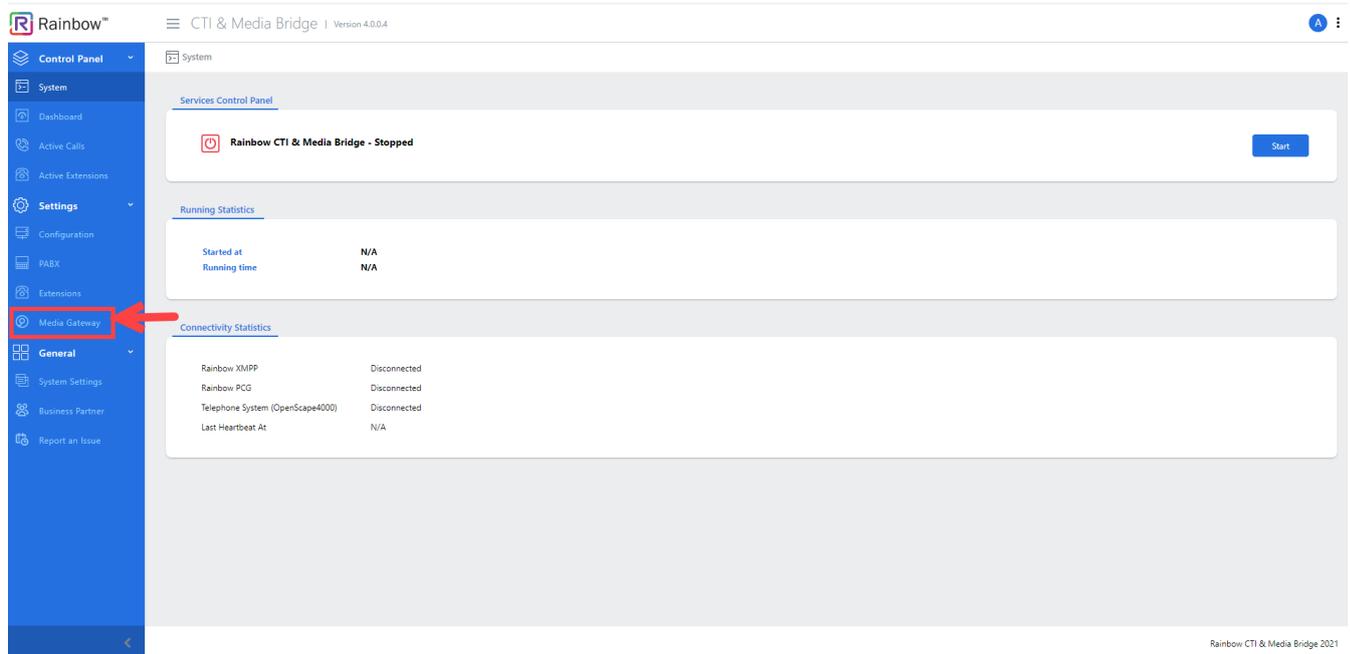
Rainbow CTI and Media Bridge works as a middleware between Rainbow and ALE WebRTC Gateway so that users (with CTI capability) can receive and take their desk extension (PABX) calls onto their rainbow applications.

It is important that Rainbow WebRTC Gateway is correctly configured before setting up Media Gateway. Media Gateway configuration is necessary if users are setup to receive their business phone calls on their Rainbow applications.

For more detailed information on webRTC Gateway configuration, please check:

<https://support.openrainbow.com/hc/en-us/articles/360019337180-WebRTC-gateway-installation-and-configuration-for-third-party-PBX>

Click on the Media Gateway tab from the left menu on the screen, as shown:



Screenshot-System

You will be presented with the screen, as shown below:

Media Gateway

Media Settings

Media Server IP *

webRTC Gateway

IP *

SIP Port *

Media Setting & webRTC Gateway

Media Server IP is the IP address of the machine on which **Rainbow CTI & Media Bridge** application is installed. This IP address needs to be provided (in the below command) while configuring **webRTC Gateway**.
mpconfig --PBX_DOMAIN=""

Following set of commands can be used to check the configuration and running status for **webRTC Gateway**.

Remote Extensions Numbering Plan

Prefix

Same Prefix configured in PABX

Other Number

Extension Pattern

Desk extension

A random extension of length

The number format for remote extensions is divided into two parts. The first part is the prefix for the remote extension number; which can either be the same as the prefix defined while setting up the SIP trunk in **openscape4000** or can be a different custom number. Along with prefix, the second part of remote extension number can either be a random number of selected length, or can be same as desk extension.

Following outline a sample pattern of the remote extensions on basis of the configurations.
 000000 – 999999

Caller ID policy for VOIP calling

No policy for Caller ID

Set policy for Caller ID

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#).

The relevant page is displayed which has the following main sections.

- **Media Settings**
- **Remote Extensions Numbering Plan**
- **Caller ID Policy for VOIP calling**

3.4.1 Media Settings

Please select the IP address using which the Media Gateway services will be communicating to webRTC Gateway. Also provide the IP address and port on which webRTC Gateway services are running. In most cases, Port will remain the same i.e. 5060 and so only IP address of the webRTC Gateway needs to be provided.

Media Settings

Media Server IP *

webRTC Gateway

IP *

SIP Port *

Media Setting & webRTC Gateway

Media Server IP is the IP address of the machine on which **Rainbow CTI & Media Bridge** application is installed. This IP address needs to be provided (in the below command) while configuring **webRTC Gateway**.
mpconfig --PBX_DOMAIN="172.20.2.75"

Following set of commands can be used to check the configuration and running status for **webRTC Gateway**.

Screenshot - Media Gateway Settings

3.4.2 Remote Extensions Numbering Plan

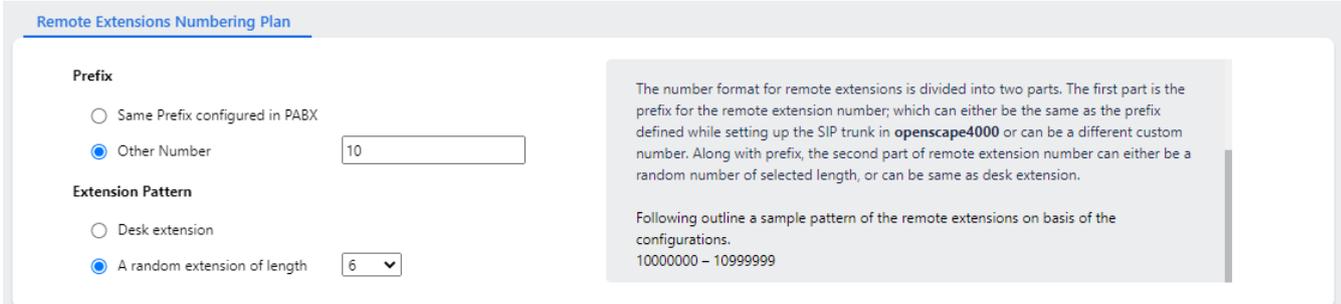
Remote Extensions are entities that are managed by Rainbow CTI & Media Bridge application to handle calls received from telephone system via SIP trunk. Remote Extension Prefix is required so that internal extensions do not conflict with PBX existing dial plan).

Prefix

You can either select the prefix of these remote extensions same as SIP Trunk prefix configured in PABX settings section or you can assign some other prefix by selecting the appropriate option.

Extension Pattern

Select whether you want to use similar extension pattern as opted in PABX settings or do you want to use a random extension length. If you opt for a random extension length, then please do mention the exact length from the drop down next to this option.



Remote Extensions Numbering Plan

Prefix

Same Prefix configured in PABX

Other Number

Extension Pattern

Desk extension

A random extension of length

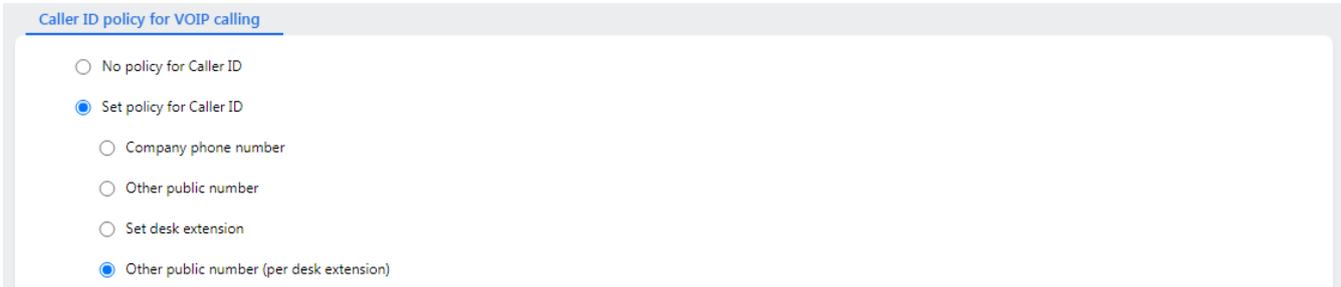
The number format for remote extensions is divided into two parts. The first part is the prefix for the remote extension number; which can either be the same as the prefix defined while setting up the SIP trunk in **openscape4000** or can be a different custom number. Along with prefix, the second part of remote extension number can either be a random number of selected length, or can be same as desk extension.

Following outline a sample pattern of the remote extensions on basis of the configurations.
10000000 – 10999999

Screenshot-Remote Extensions Numbering Plan Settings

3.4.3 Caller ID Policy for VOIP calling

You can select a particular policy for Caller ID option in this section. Simply opt for first option if you don't want to adopt a policy. If you select the second option, another menu opens up as displayed below:



Caller ID policy for VOIP calling

No policy for Caller ID

Set policy for Caller ID

Company phone number

Other public number

Set desk extension

Other public number (per desk extension)

Screenshot-Caller ID policy for VOIP Calling

Company Phone Number

Enter company phone number that you want to display as caller ID when a call is received on another extension from your extension.

Other Public Number

Enter some random public number that you want to display as caller ID when a call is received on another extension from your extension.

Set Desk extension

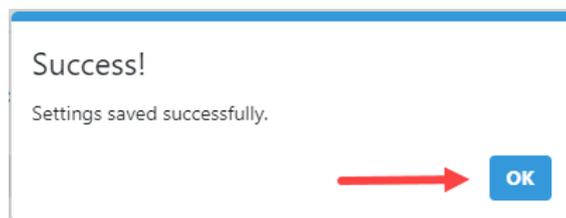
Select this option if you want to display your assigned desk extension as caller ID when a call is received on another extension from your extension.

Other Public Number (per desk extension)

Select this option if you want to display some other public number that is assigned as your desk extension as caller ID when a call is received on another extension from your extension.

Once you have entered the details into each field, click **Update**.

You will be presented with the popup window, click **OK**, as shown below.



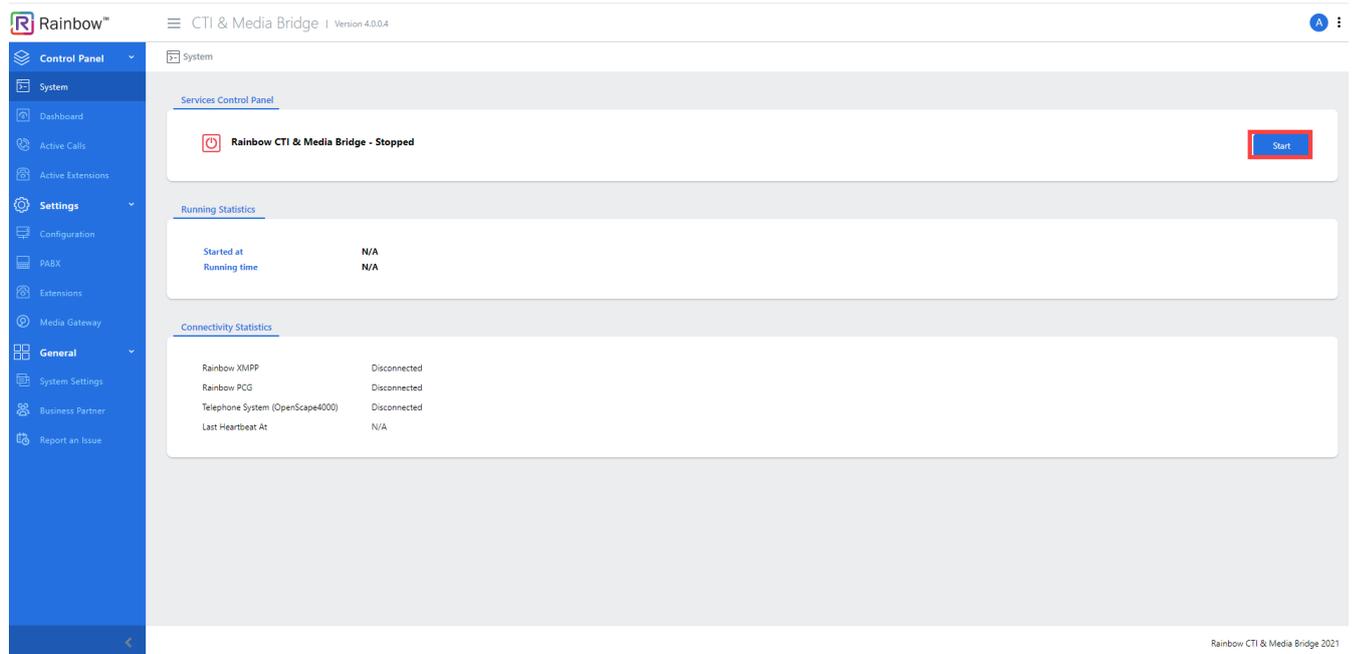
Screenshot-Message from Application

3.5 Starting and Stopping Rainbow CTI & Media Bridge Service

Once the configuration is updated, Rainbow CTI & Media Bridge Service can be started to establish a connection with Rainbow Server.

Go to system screen by clicking on “**System**”

The “**System**” screen provides an easy interface to start or stop the service without the need to go to Windows Services Control Manager.



Screenshot - System

The Service screen displays the status of the Rainbow CTI & Media Bridge service. Using this screen, you can either start or stop the service.

On the left, you will see an LED indicating the current state of the service. A **Green** LED icon indicates that this service is running. A **Red** LED icon indicates that it is stopped. You can find the Stop or Start button on the right. Click that button to either start or stop the service.

The figure below shows the state when Rainbow CTI & Media Bridge service is in running state.

System

Services Control Panel

 **Rainbow CTI & Media Bridge - Running** Stop

Running Statistics

Started at **Wednesday, September 15, 2021 3:51:37 PM**
Running time **0d 0h 0m**

Connectivity Statistics

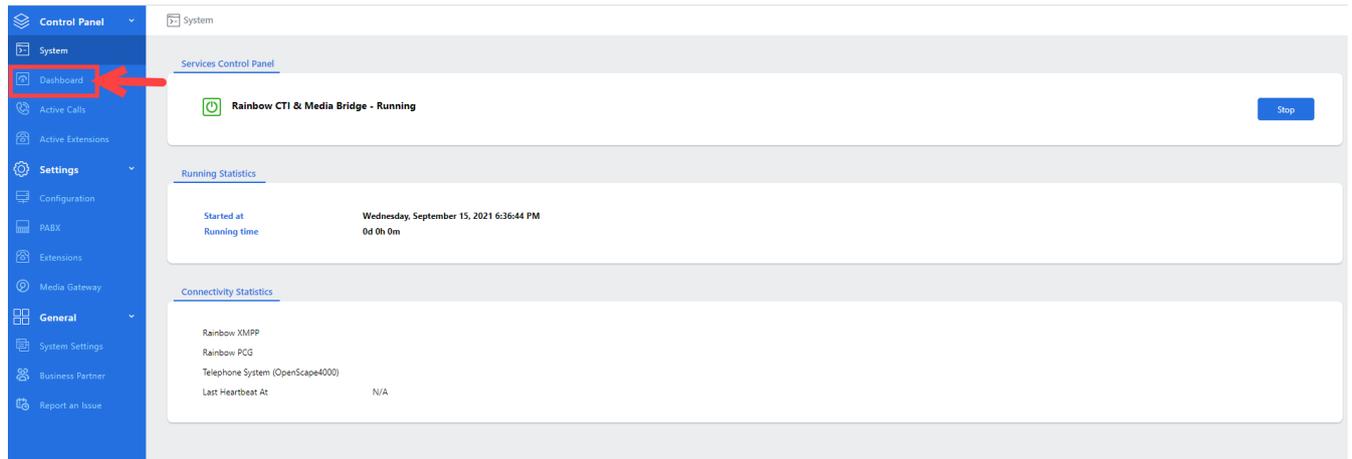
Rainbow XMPP	Disconnected
Rainbow PCG	Disconnected
Telephone System (OpenScape4000)	Disconnected
Last Heartbeat At	N/A

Screenshot- System

4 Calls and Extensions

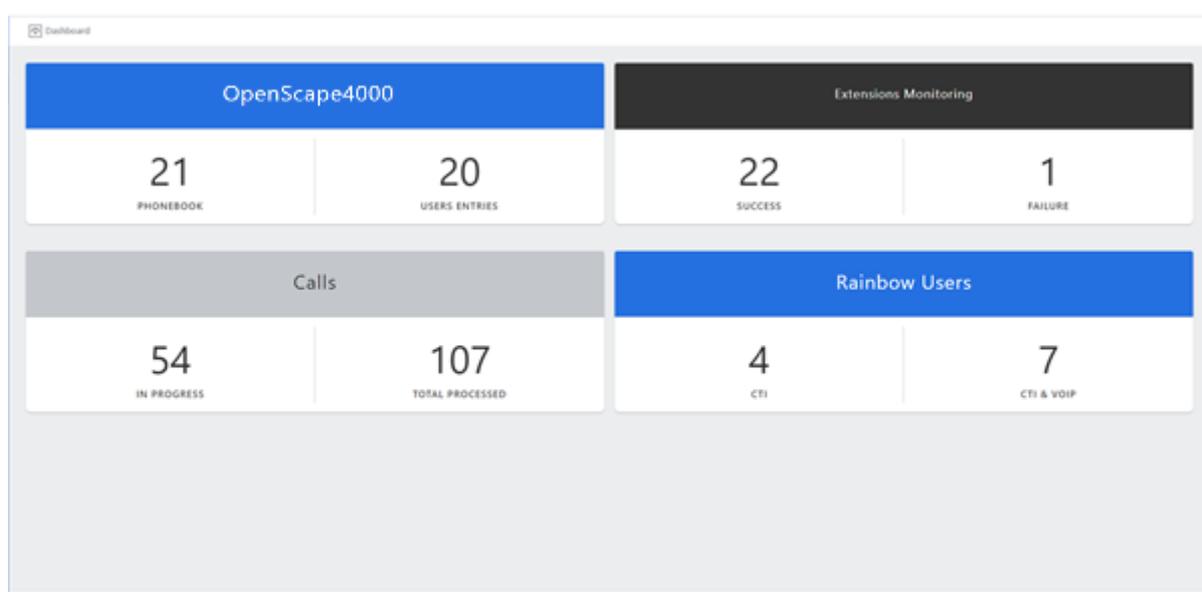
4.1 Dashboard

Rainbow CTI & Media Bridge has a number of pre-selected statistics such as **CTI Connector connection status**, **Monitored & Un-monitored extensions list** and **On-going Calls**. To view statistics, click on the **Dashboard** from the left menu, as shown below.



Screenshot -System

You will be presented with the screen, as shown below.



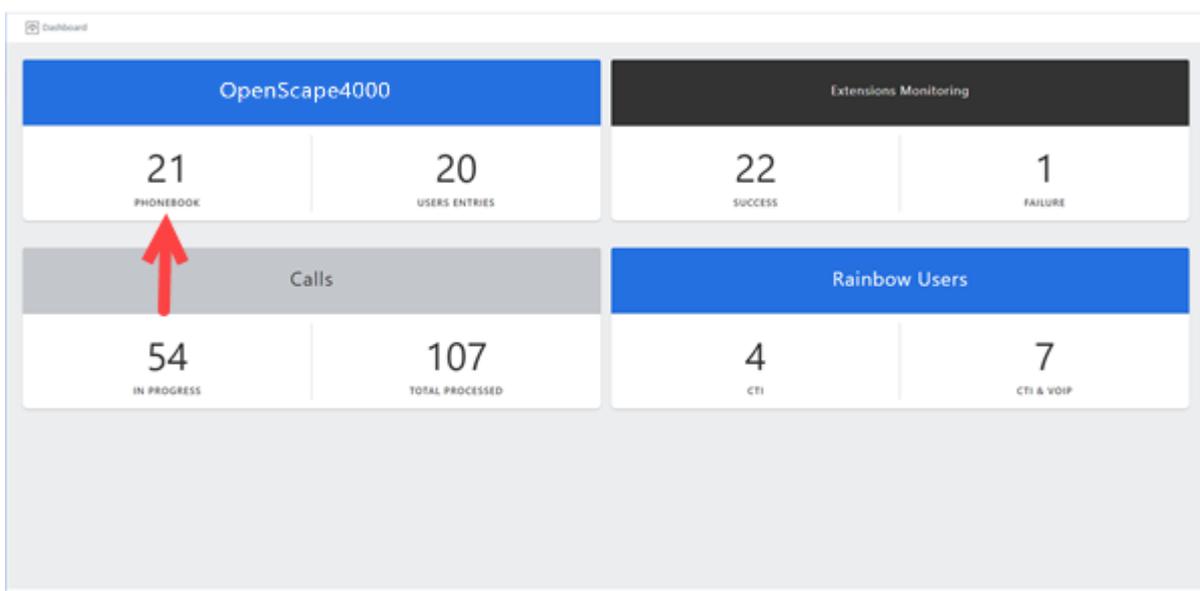
Screenshot-Dashboard

The dashboard tab provides wealth of information that can fast track troubleshooting.

4.2 Extensions & User Entries

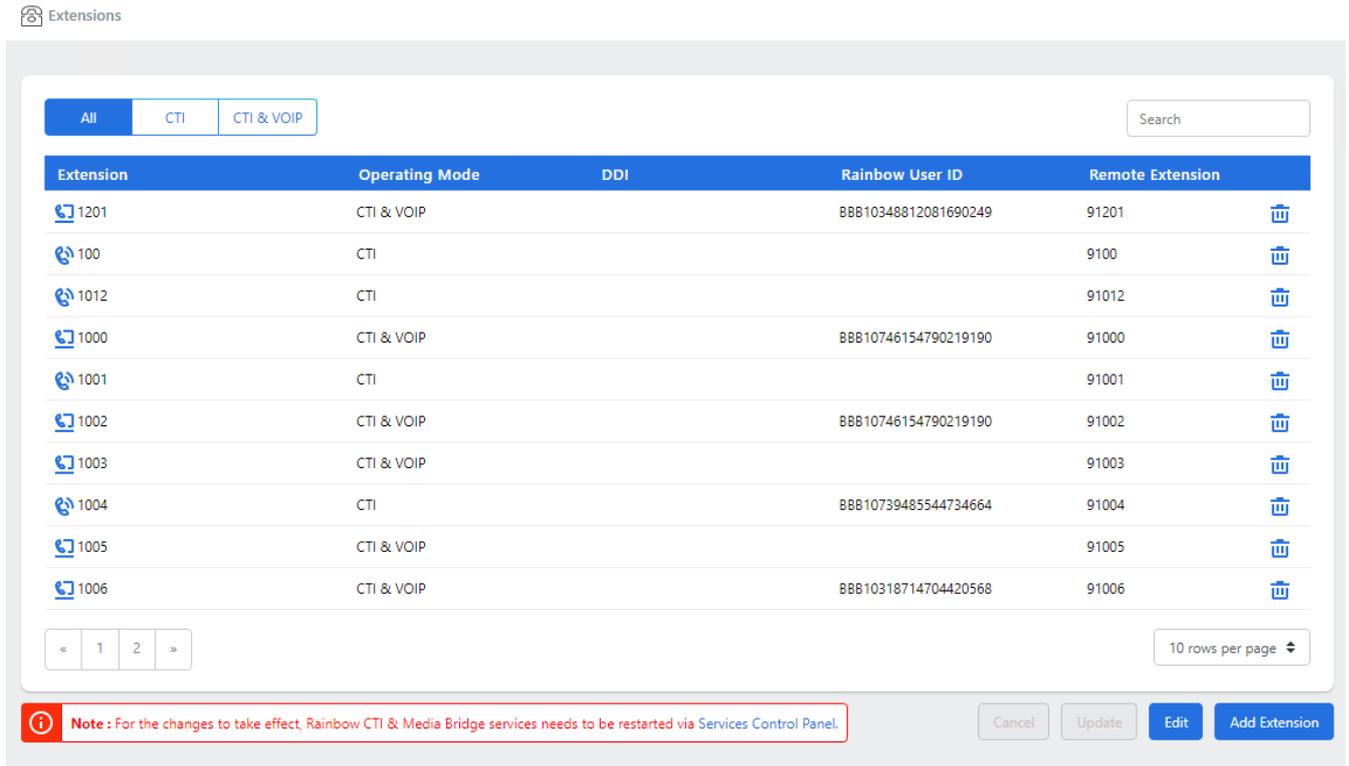
Rainbow CTI & Media Bridge retrieves the list of total extensions/users entries available in OpenScape 4000 PBX and sends that information to Rainbow Server. This information is then made available in Rainbow Enterprise configuration.

If you want to see the list of telephone extensions/Users entries, click on the **PHONEBOOK**, as shown below.



Screenshot-Dashboard

You will be presented with the screen, as shown below



Extensions

All CTI CTI & VOIP Search

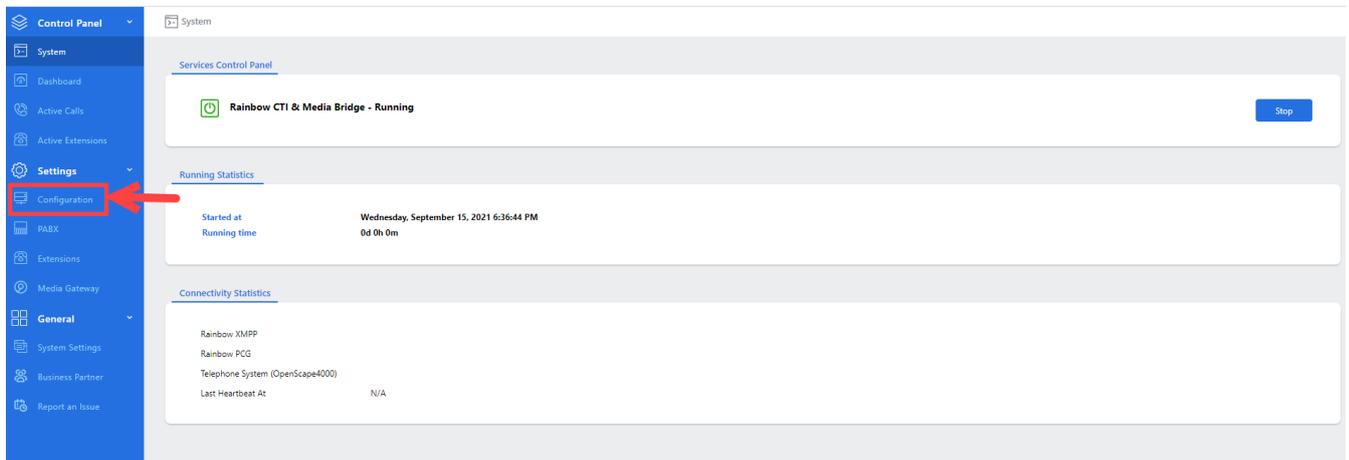
Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1201	CTI & VOIP		BBB10348812081690249	91201
100	CTI			9100
1012	CTI			91012
1000	CTI & VOIP		BBB10746154790219190	91000
1001	CTI			91001
1002	CTI & VOIP		BBB10746154790219190	91002
1003	CTI & VOIP			91003
1004	CTI		BBB10739485544734664	91004
1005	CTI & VOIP			91005
1006	CTI & VOIP		BBB10318714704420568	91006

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

Cancel Update Edit Add Extension

Screenshot- Extensions

You can also go to extensions screen by clicking on the Extensions tab from the left menu, as shown.



Control Panel System

System

Services Control Panel

Rainbow CTI & Media Bridge - Running Stop

Running Statistics

Started at: Wednesday, September 15, 2021 6:36:44 PM
Running time: 0d 0h 0m

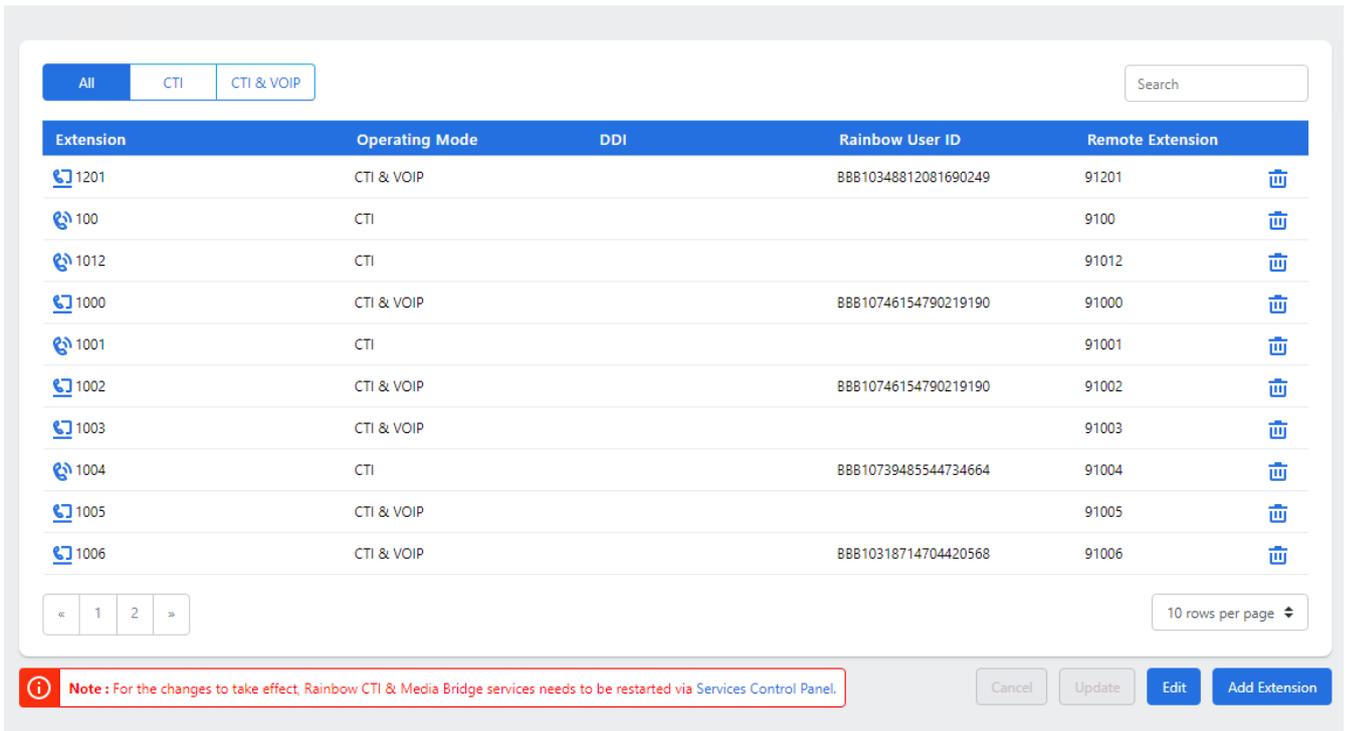
Connectivity Statistics

Rainbow XMPP
Rainbow PCG
Telephone System (OpenScape4000)
Last Heartbeat At: N/A

Screenshot- System

You will be presented with the screen, as shown below

Extensions



The screenshot shows the 'Extensions' management page. At the top, there are tabs for 'All', 'CTI', and 'CTI & VOIP', with 'All' selected. A search bar is located on the right. Below the tabs is a table with the following columns: Extension, Operating Mode, DDI, Rainbow User ID, and Remote Extension. The table contains 10 rows of data. At the bottom of the table, there are navigation controls (left arrow, 1, 2, right arrow) and a '10 rows per page' dropdown. Below the table, there is a red notification bar with an information icon and the text: 'Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.' To the right of the notification are buttons for 'Cancel', 'Update', 'Edit', and 'Add Extension'.

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1201	CTI & VOIP		BBB10348812081690249	91201
100	CTI			9100
1012	CTI			91012
1000	CTI & VOIP		BBB10746154790219190	91000
1001	CTI			91001
1002	CTI & VOIP		BBB10746154790219190	91002
1003	CTI & VOIP			91003
1004	CTI		BBB10739485544734664	91004
1005	CTI & VOIP			91005
1006	CTI & VOIP		BBB10318714704420568	91006

Screenshot- Extensions

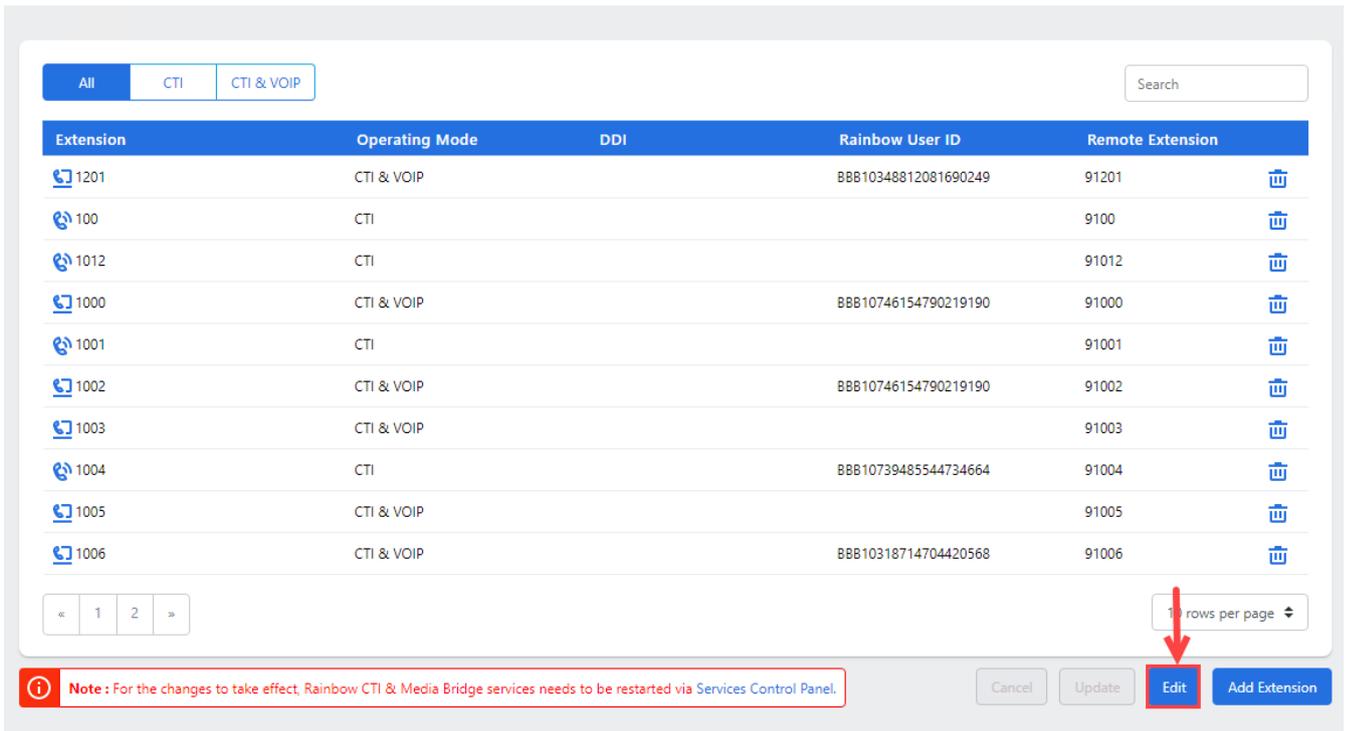
4.2.1 CTI & VOIP

VOIP introduces a routing menu Other Number in the Rainbow application to forward the PBX calls to a second extension configured with an external or internal number. It is based on Virtual Extension device on the Media Gateway.

Note: Every new extension will have CTI & VOIP set as operating mode.

If you want to handle any specific desk extension (PABX) call onto rainbow interface both in terms of signaling and voice then select CTI option from the drop down menu after clicking on **Edit** button. Once you have set the options, click **Update** as shown below:

Extensions

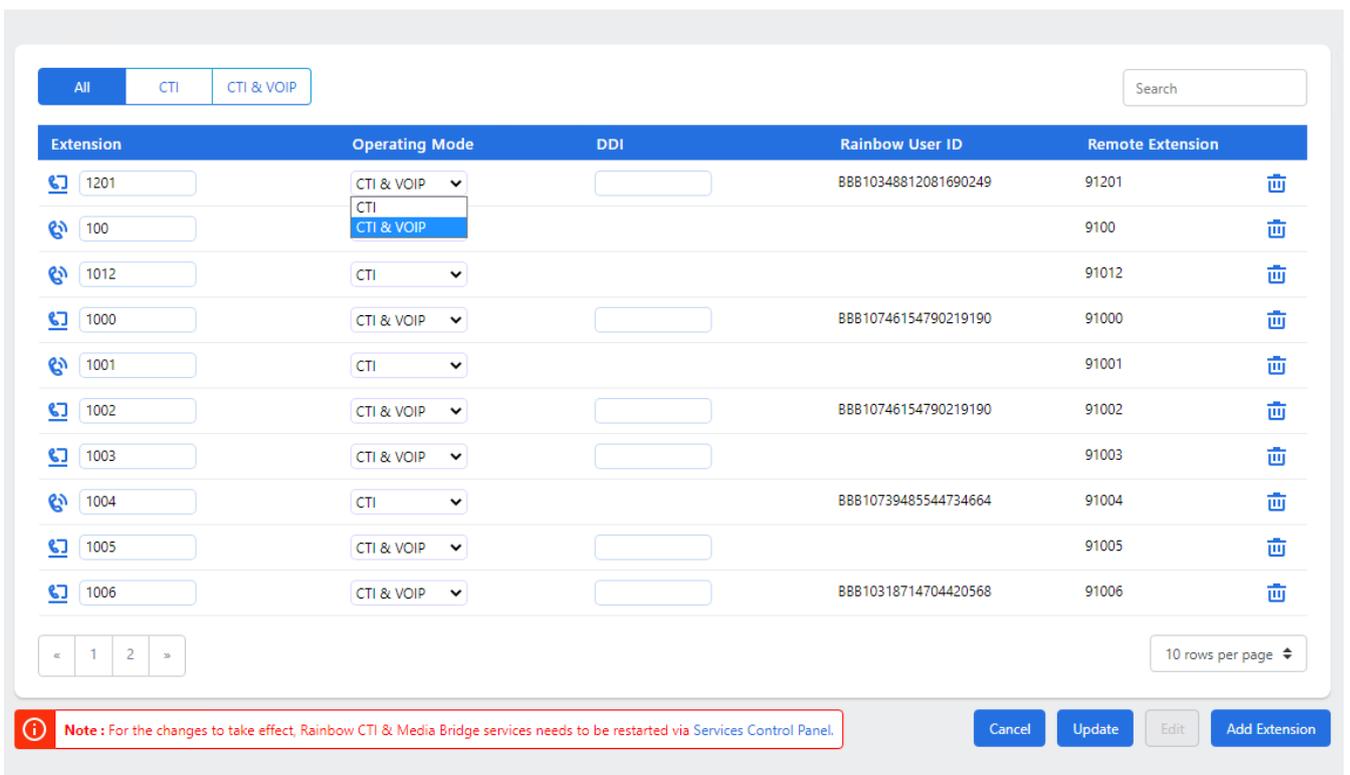


The screenshot shows the 'Extensions' management interface. At the top, there are tabs for 'All', 'CTI', and 'CTI & VOIP', along with a search bar. Below is a table with the following columns: Extension, Operating Mode, DDI, Rainbow User ID, and Remote Extension. The table lists 10 extensions with their respective details. At the bottom right, there is a '10 rows per page' dropdown menu. Below the table, there is a red-bordered note: 'Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.' To the right of the note are buttons for 'Cancel', 'Update', 'Edit', and 'Add Extension'. The 'Edit' button is highlighted with a red box and a red arrow points to it from above.

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1201	CTI & VOIP		BBB10348812081690249	91201
100	CTI			9100
1012	CTI			91012
1000	CTI & VOIP		BBB10746154790219190	91000
1001	CTI			91001
1002	CTI & VOIP		BBB10746154790219190	91002
1003	CTI & VOIP			91003
1004	CTI		BBB10739485544734664	91004
1005	CTI & VOIP			91005
1006	CTI & VOIP		BBB10318714704420568	91006

Screenshot- Edit Button on Extensions Page

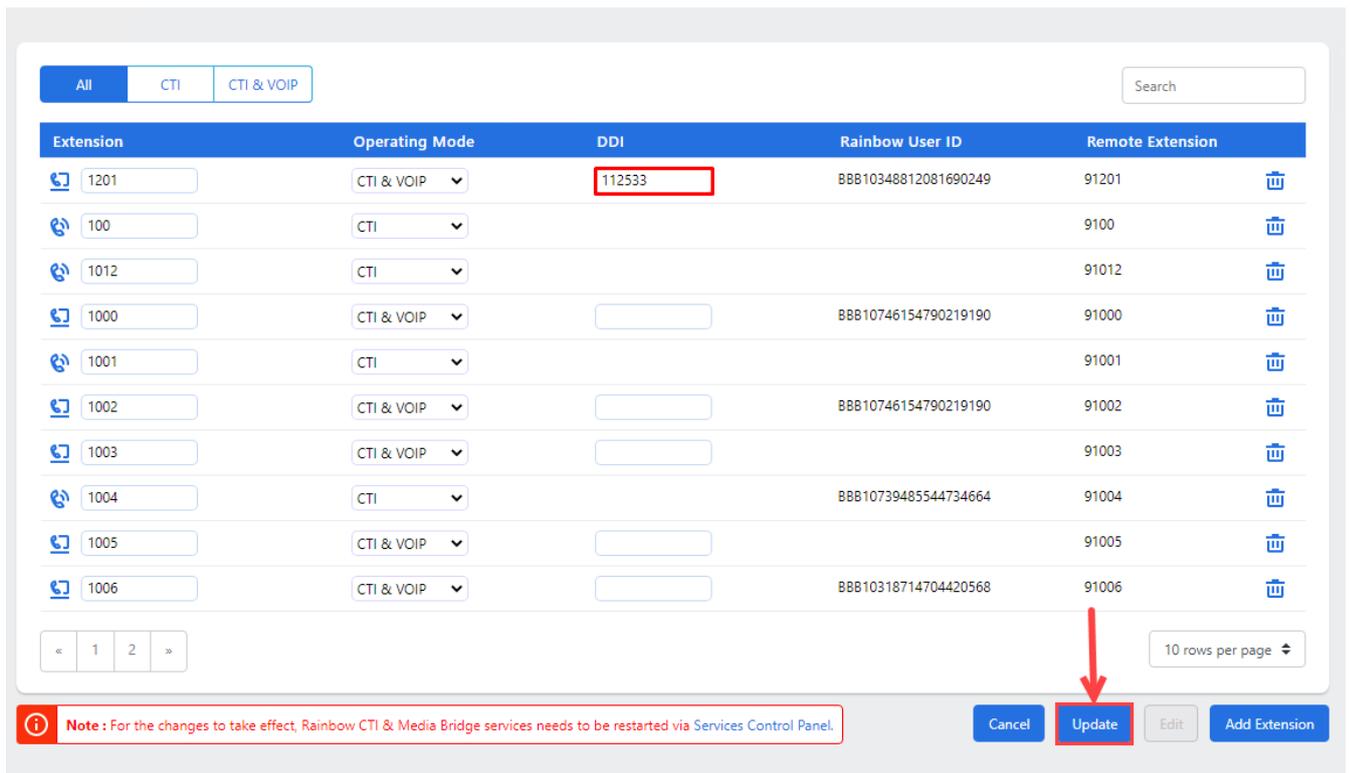
Extensions



This screenshot shows the same 'Extensions' page as the previous one, but with the 'Operating Mode' dropdown menu for extension 100 open. The dropdown menu shows three options: 'CTI & VOIP' (which is highlighted in blue), 'CTI', and 'CTI & VOIP'. The 'Edit' button is no longer highlighted. The rest of the interface, including the table and the note, remains the same.

Screenshot - Updating Operating Mode of an Extension

Extensions



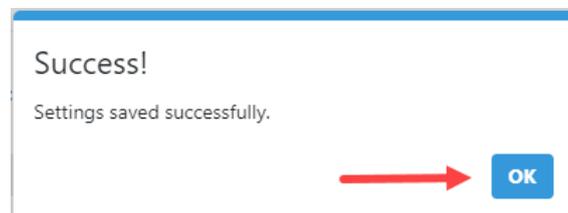
Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1201	CTI & VOIP	112533	BBB10348812081690249	91201
100	CTI			9100
1012	CTI			91012
1000	CTI & VOIP		BBB10746154790219190	91000
1001	CTI			91001
1002	CTI & VOIP		BBB10746154790219190	91002
1003	CTI & VOIP			91003
1004	CTI		BBB10739485544734664	91004
1005	CTI & VOIP			91005
1006	CTI & VOIP		BBB10318714704420568	91006

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

Buttons: Cancel, Update, Edit, Add Extension

Screenshot-Updating Extensions

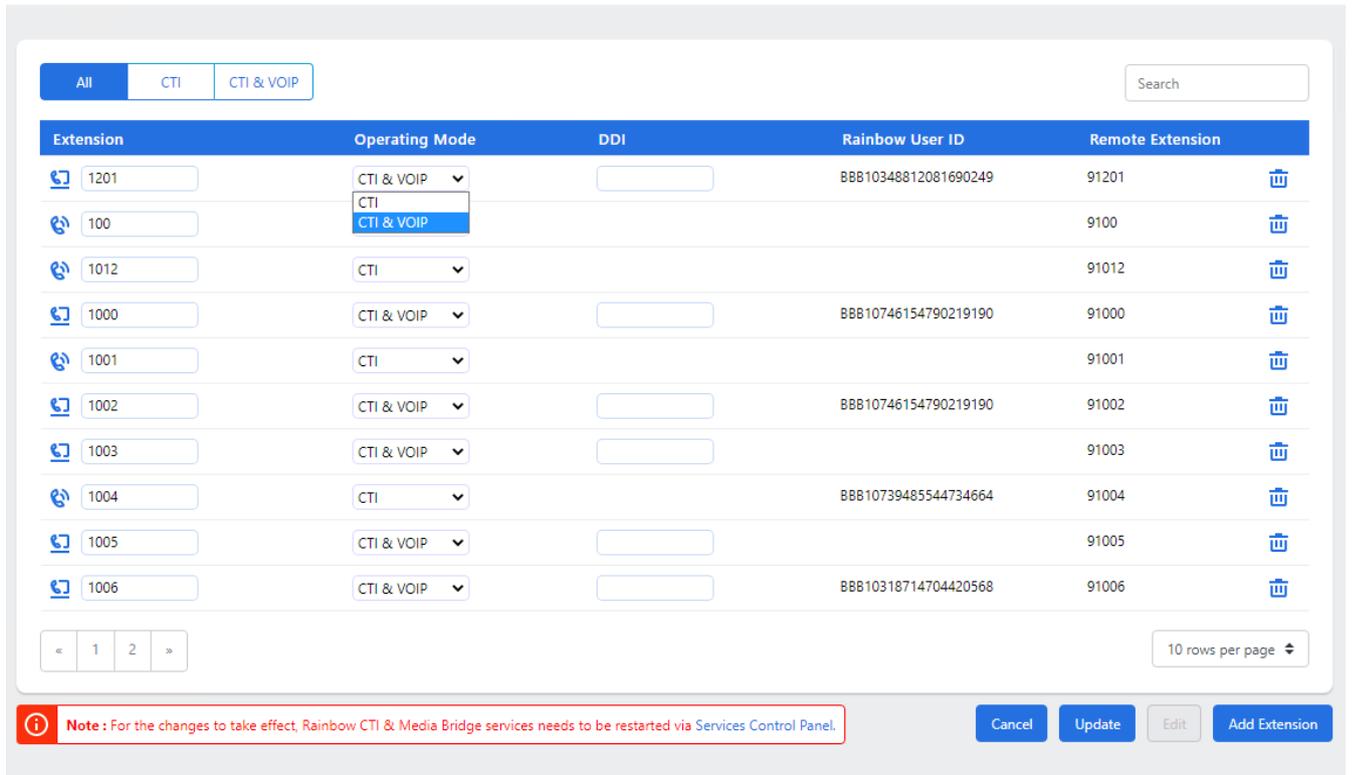
You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

While updating the Operating Mode of added extensions, you can also set DDI information for these extensions. If Operating Mode is set as **CTI & VOIP** then DDI information can be manually added and if operating mode is set as **CTI**, then DDI information cannot be altered and the value stored in **CTI & VOIP** mode is stored in the extension as shown below:

Extensions



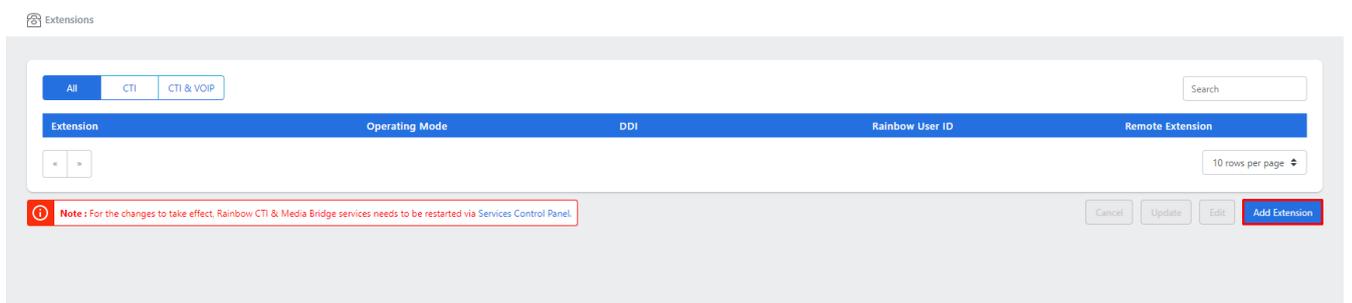
The screenshot shows the 'Extensions' management page. At the top, there are tabs for 'All', 'CTI', and 'CTI & VOIP', along with a search box. Below is a table with the following columns: Extension, Operating Mode, DDI, Rainbow User ID, and Remote Extension. The table contains 10 rows of extension data. At the bottom, there is a pagination control showing '1' and '2', and a '10 rows per page' dropdown. A red note at the bottom states: 'Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.' To the right of the note are buttons for 'Cancel', 'Update', 'Edit', and 'Add Extension'.

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1201	CTI & VOIP		BBB10348812081690249	91201
100	CTI & VOIP			9100
1012	CTI			91012
1000	CTI & VOIP		BBB10746154790219190	91000
1001	CTI			91001
1002	CTI & VOIP		BBB10746154790219190	91002
1003	CTI & VOIP			91003
1004	CTI		BBB10739485544734664	91004
1005	CTI & VOIP			91005
1006	CTI & VOIP		BBB10318714704420568	91006

Screenshot- Extensions

4.2.2 Add Extension

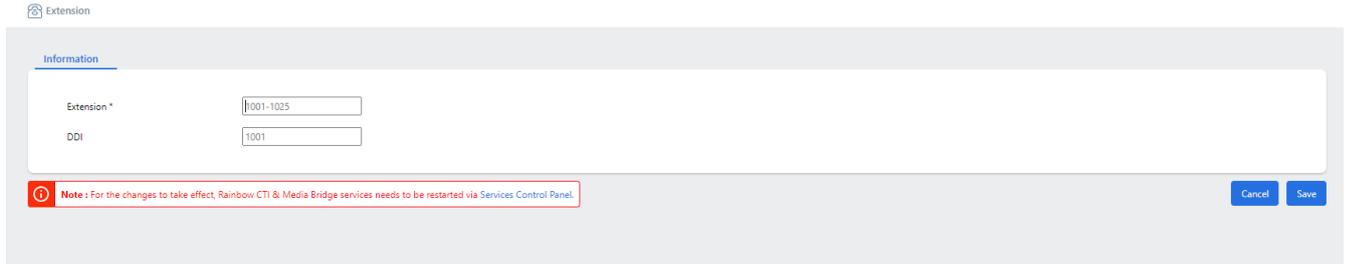
You can also add new extensions by clicking on the Add Extensions button available at the bottom of the page as highlighted below:



This screenshot is similar to the previous one, but the 'Add Extension' button at the bottom right is highlighted with a red border. The rest of the interface, including the table and navigation elements, is identical.

Screenshot- Extensions

Following page is displayed when you click on Add Extensions button:



Extension

Information

Extension *

DDI

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

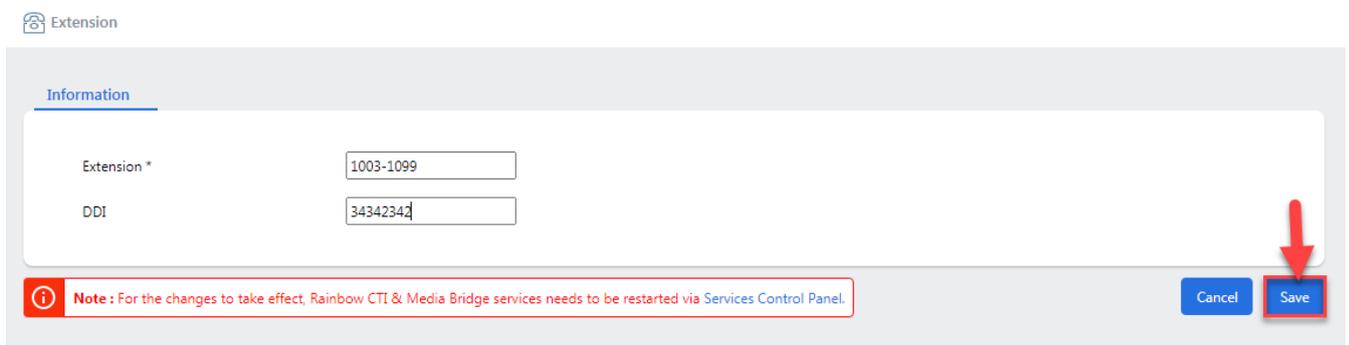
Cancel Save

Screenshot- Add Extensions

Extension - You can provide a single extension or a range of extensions (100 - 125) in this field.

DDI - Provide a DDI that you want to be assigned to all the newly added extensions.

Once done, click on Save Button as highlighted below:



Extension

Information

Extension *

DDI

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

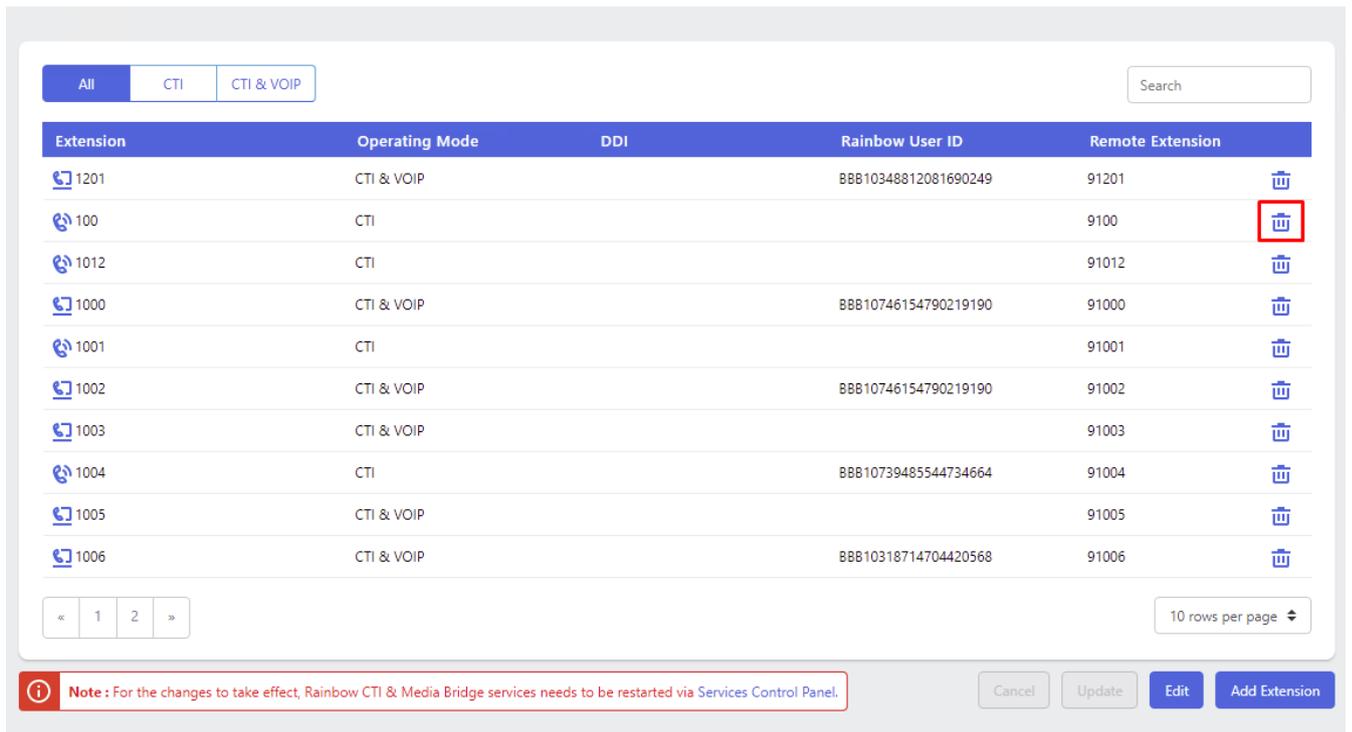
Cancel Save

Screenshot- Add Extensions

4.2.3 Delete Extension

You can also delete extensions by clicking on  icon available next to each extension as highlighted below:

Extensions

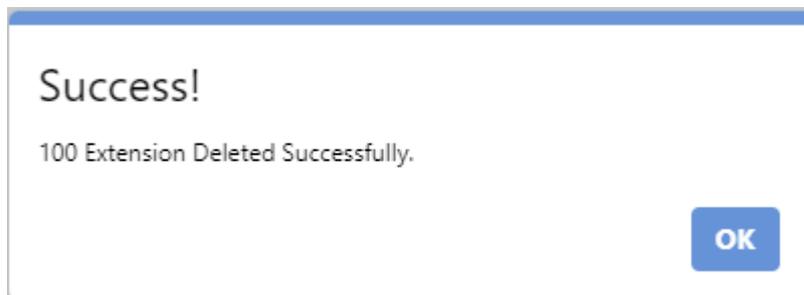


Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension	
1201	CTI & VOIP		BBB10348812081690249	91201	
100	CTI			9100	
1012	CTI			91012	
1000	CTI & VOIP		BBB10746154790219190	91000	
1001	CTI			91001	
1002	CTI & VOIP		BBB10746154790219190	91002	
1003	CTI & VOIP			91003	
1004	CTI		BBB10739485544734664	91004	
1005	CTI & VOIP			91005	
1006	CTI & VOIP		BBB10318714704420568	91006	

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

Cancel Update Edit Add Extension

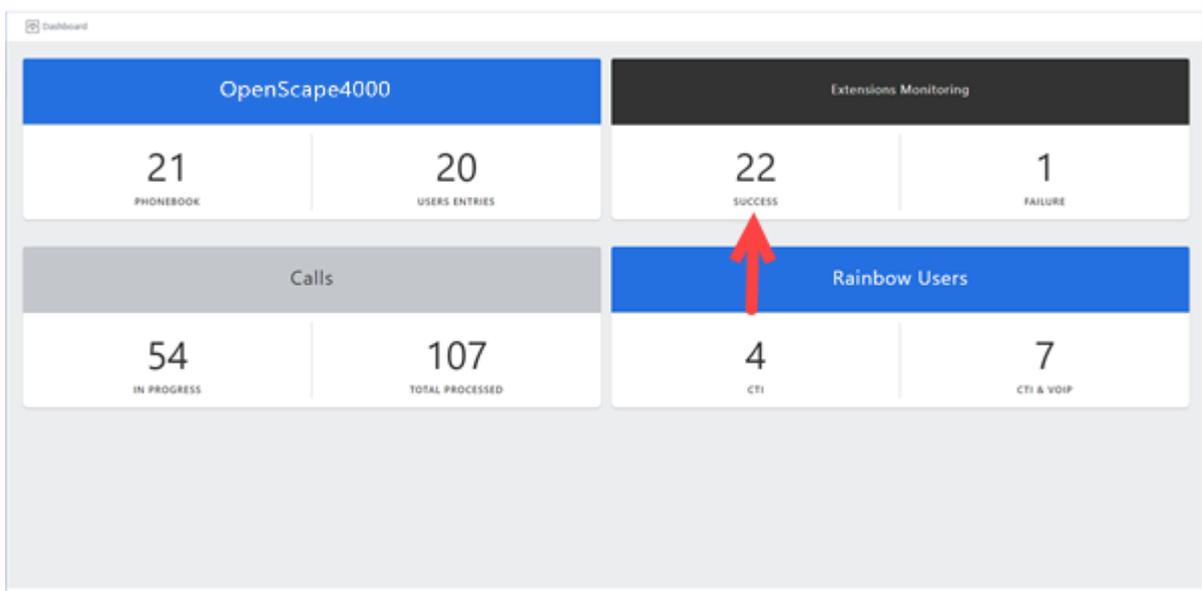
When you click on  icon, following pop up window is displayed:



4.3 Monitored Extensions

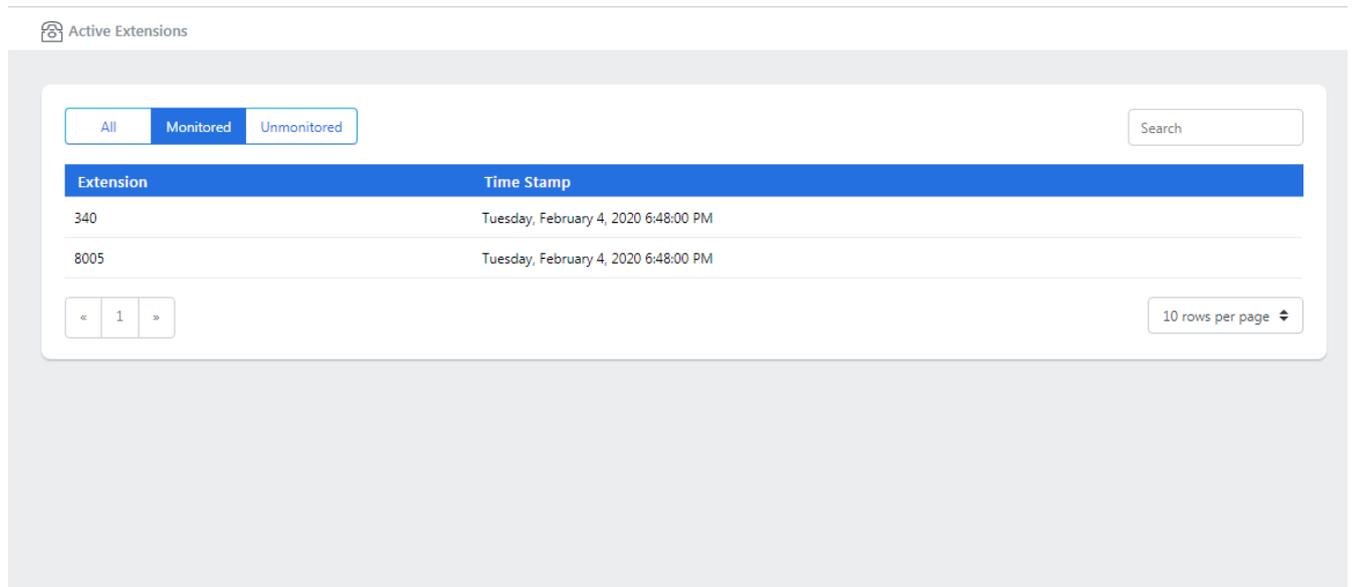
Once necessary configuration is done in Rainbow Enterprise configuration, the information of telephone extensions that need to be monitored is sent to CTI & Media Bridge. The “Monitored Extensions” shows the total number of extensions that are successfully registered for monitoring by CTI & Media Bridge.

If you want to see the list of telephone extensions monitored, click on the SUCCESS from Extension Monitoring widget, as shown below.



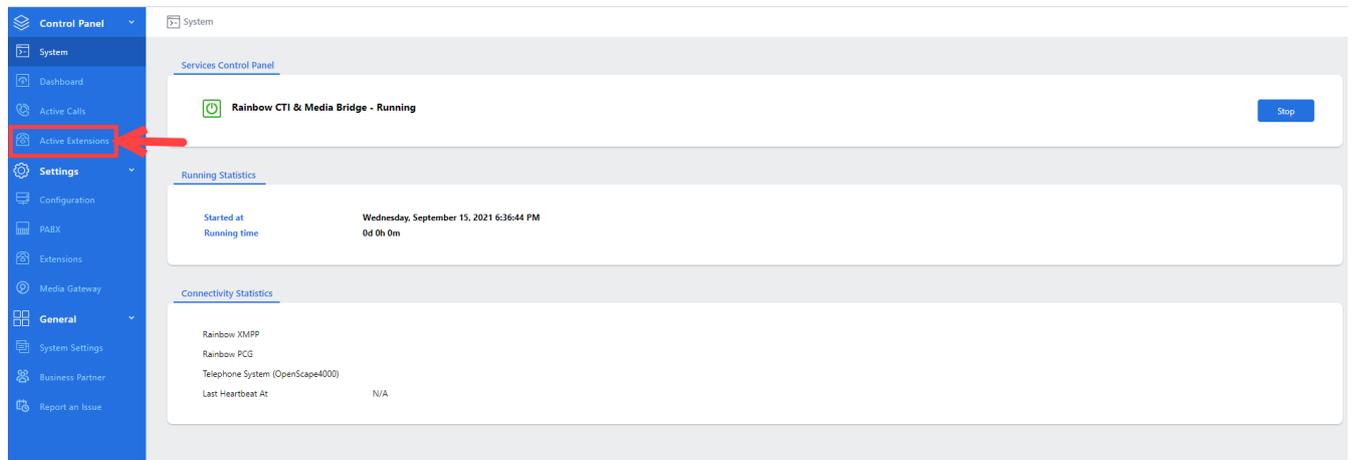
Screenshot-Dashboard

You will be presented with the screen, as shown below



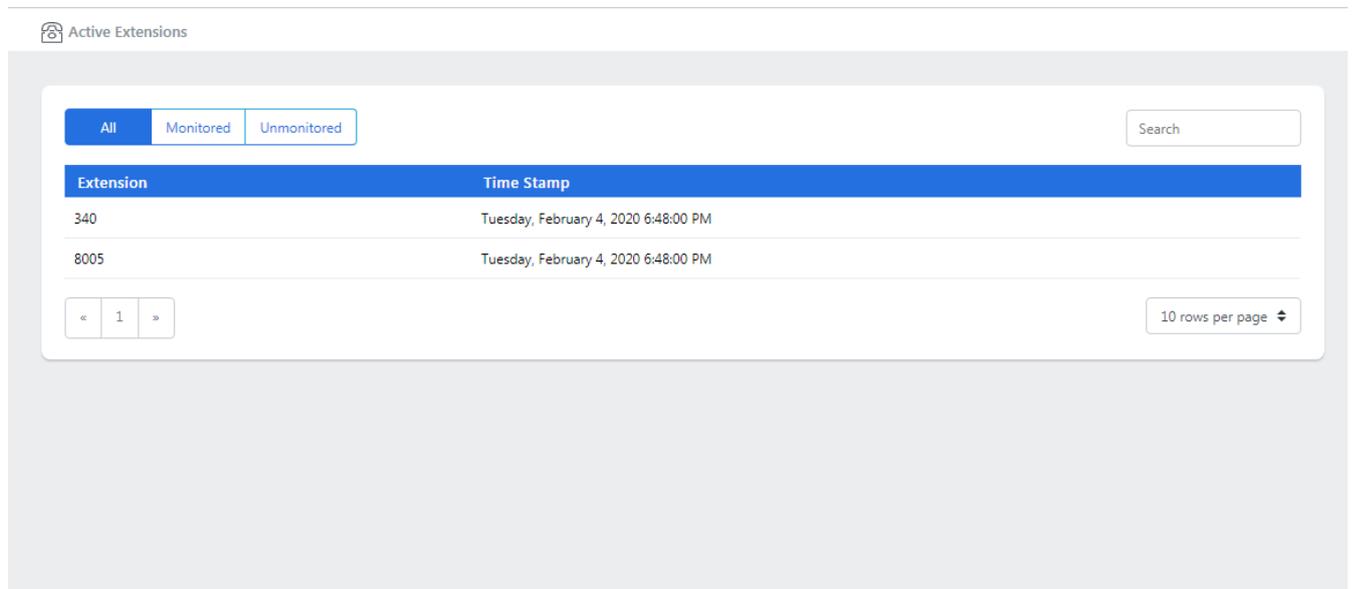
Screenshot-Monitored Extensions

You can also go to statistics screen by clicking on the Active Extension tab from the left menu, as shown.



Screenshot-System

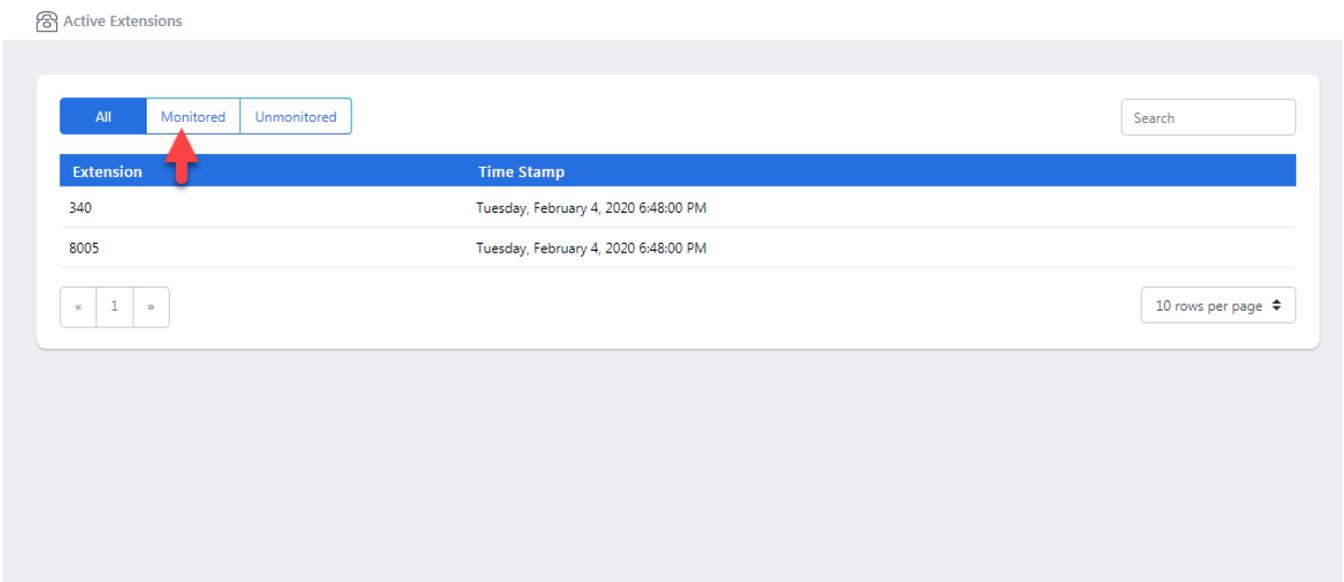
You will be presented with the list of all both monitored and unmonitored extensions, as shown below:



Rainbow CTI & Media Bridge 2021

Screenshot-Active Extensions

Click on the Monitored tab from top menu, as shown below.



Active Extensions

All Monitored Unmonitored Search

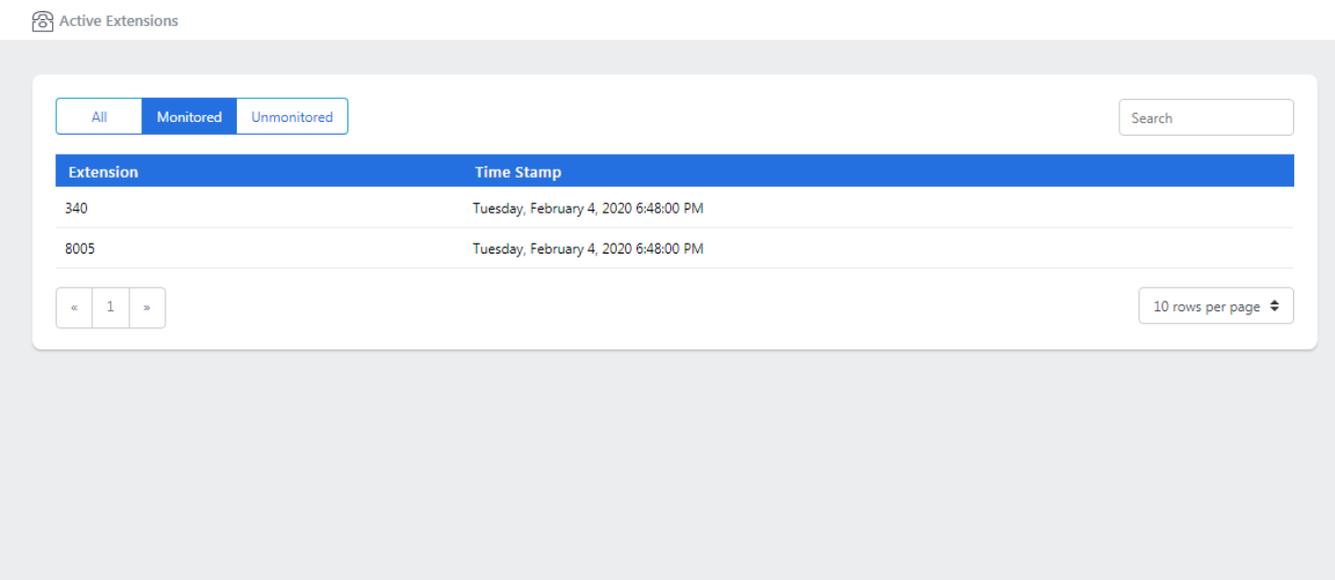
Extension	Time Stamp
340	Tuesday, February 4, 2020 6:48:00 PM
8005	Tuesday, February 4, 2020 6:48:00 PM

< 1 > 10 rows per page

Rainbow CTI & Media Bridge 2021

Screenshot-Active Extensions

You will be presented with the monitored extensions, as shown below



Active Extensions

All Monitored Unmonitored Search

Extension	Time Stamp
340	Tuesday, February 4, 2020 6:48:00 PM
8005	Tuesday, February 4, 2020 6:48:00 PM

< 1 > 10 rows per page

Rainbow CTI & Media Bridge 2021

Screenshot-Monitored Extensions

Key in the extension number in order to search for a specific monitored extension, as shown below.

Active Extensions

All Monitored Unmonitored

8005

Extension	Time Stamp
8005	Tuesday, February 4, 2020 6:48:00 PM

< 1 >

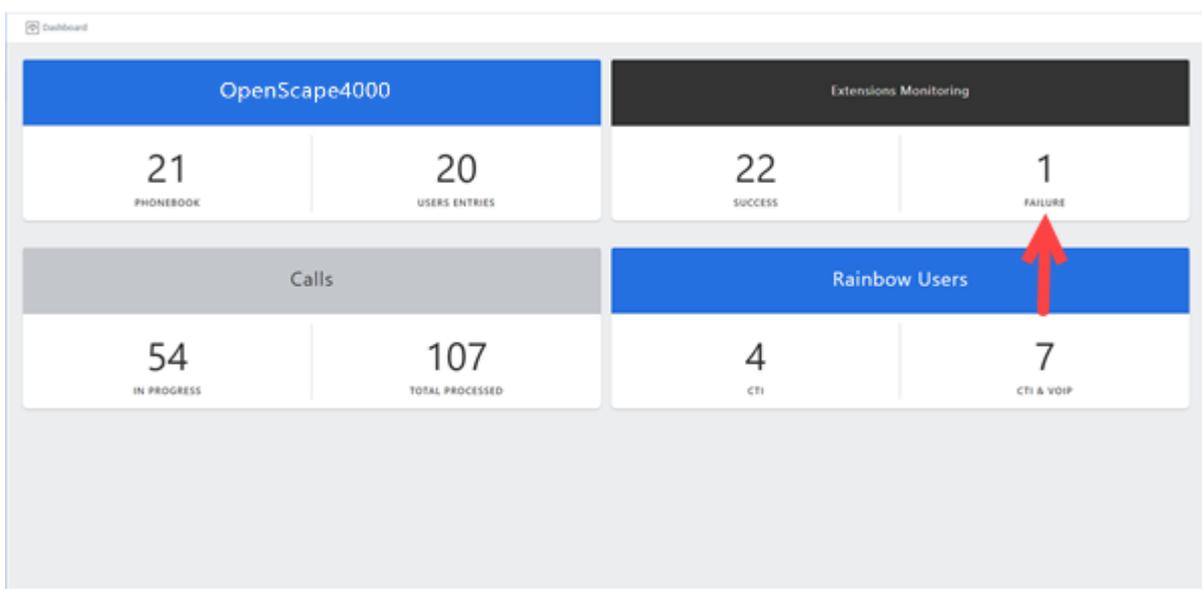
10 rows per page

Screenshot-Monitored Extensions

4.4 Unsuccessful monitoring of extensions

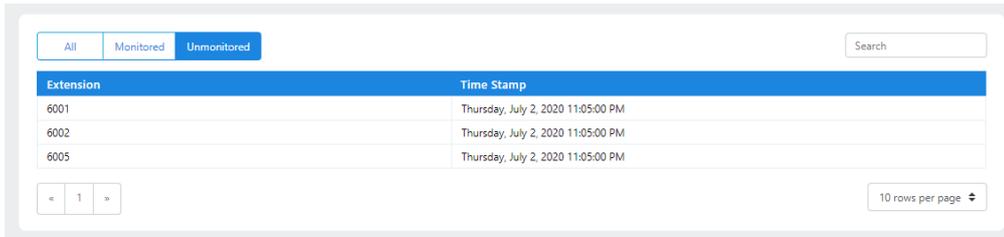
There could be many reasons due to which CTI & Media Bridge may not be able to monitor an extension. The reasons could range from missing configuration to a faulty phone cable.

This section gives the total number of extensions that could not be monitored. If you want to see the list of telephone extensions that are not monitored, click on **FAILURE** from **Extension Monitoring** widget, as shown below:



Screenshot-Dashboard

You will be presented with the screen, as shown below

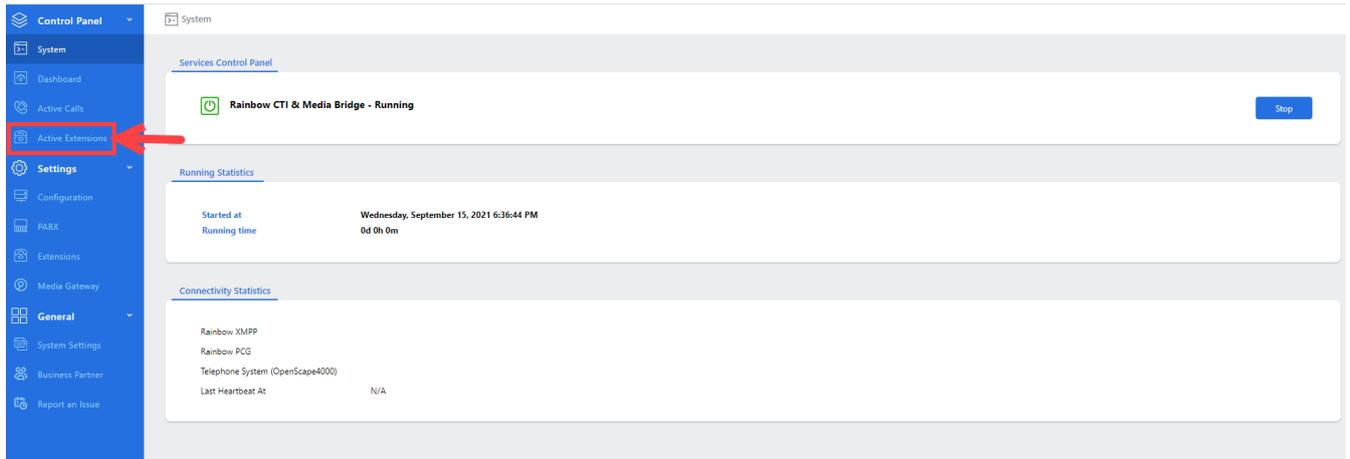


The screenshot shows a table with columns 'Extension' and 'Time Stamp'. The table contains three rows of data. There are tabs for 'All', 'Monitored', and 'Unmonitored', with 'Unmonitored' selected. A search box and a '10 rows per page' dropdown are also visible.

Extension	Time Stamp
6001	Thursday, July 2, 2020 11:05:00 PM
6002	Thursday, July 2, 2020 11:05:00 PM
6005	Thursday, July 2, 2020 11:05:00 PM

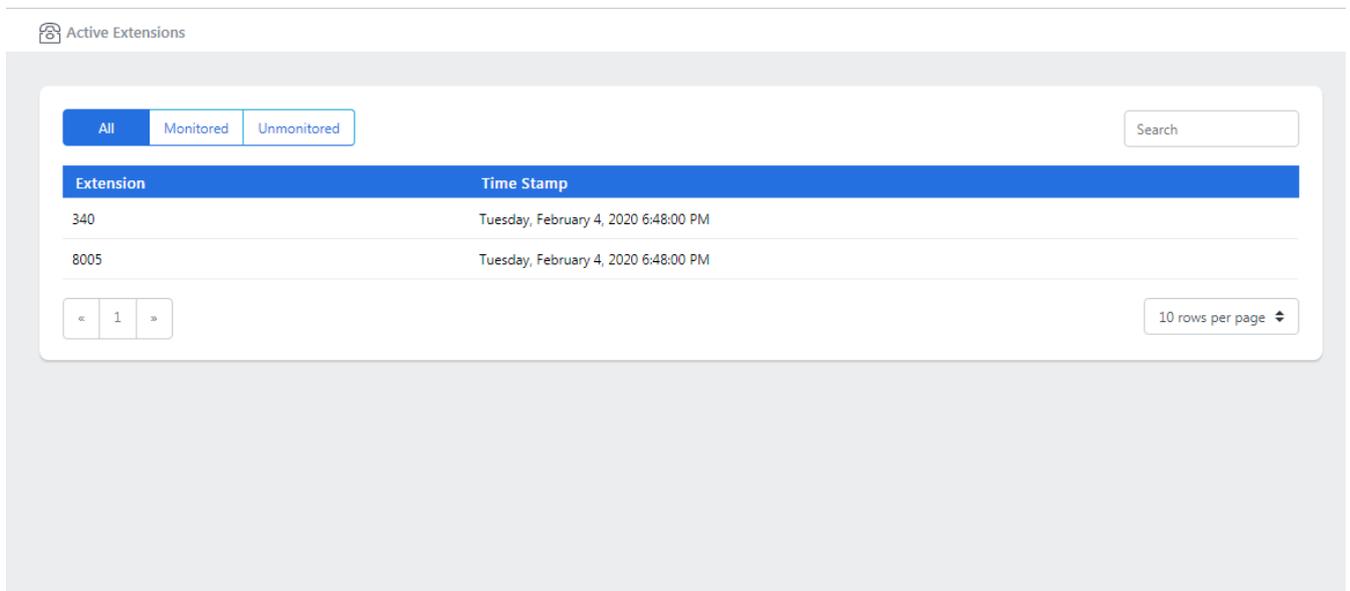
Screenshot-Unmonitored Extensions

You can also go to active extensions screen by clicking on the Active Extensions tab from the left menu, as shown below:



Screenshot-System

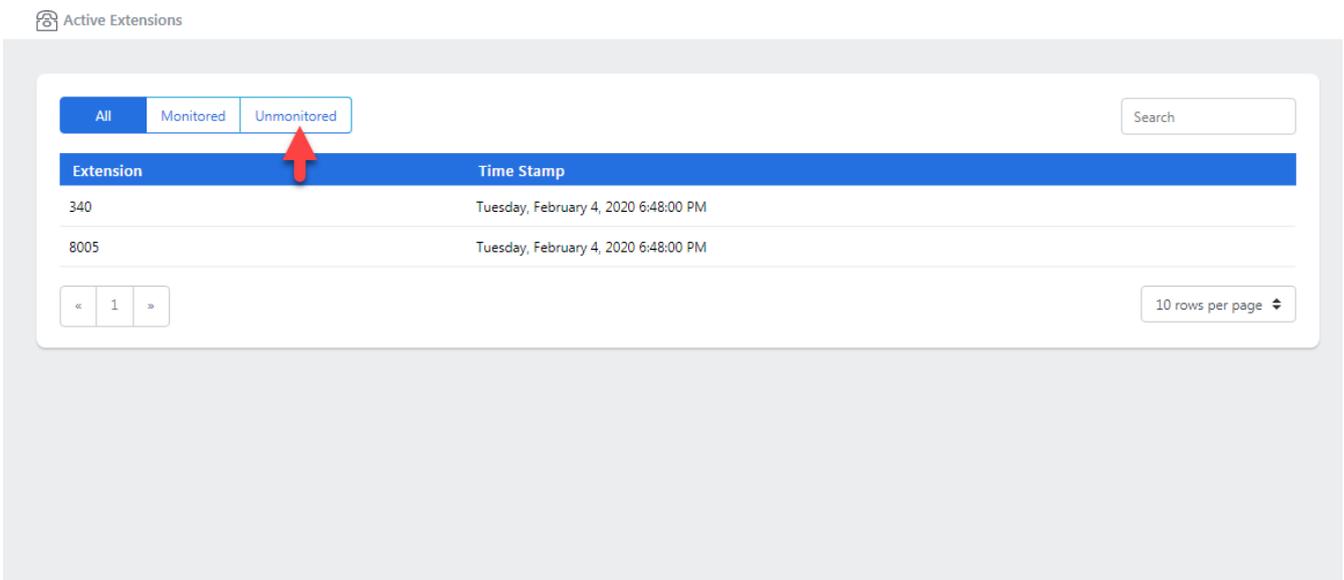
You will be presented with the list of both monitored and unmonitored extensions, as shown below:



Rainbow CTI & Media Bridge 2021

Screenshot-Active Extensions

Click on the Unmonitored tab from top menu, as shown.



Active Extensions

All Monitored Unmonitored Search

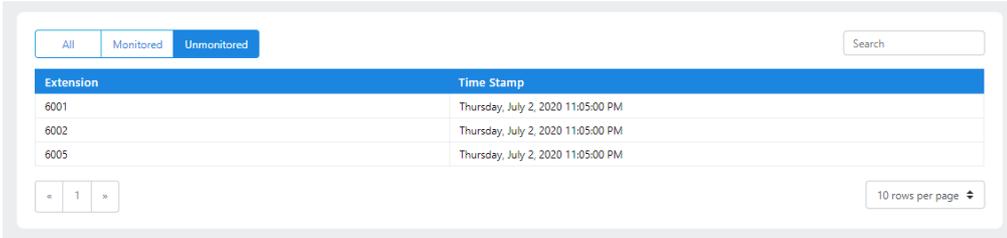
Extension	Time Stamp
340	Tuesday, February 4, 2020 6:48:00 PM
8005	Tuesday, February 4, 2020 6:48:00 PM

< 1 > 10 rows per page

Rainbow CTI & Media Bridge 2021

Screenshot-Active Extensions

You will be presented with the list of unmonitored extensions, as shown below:



All Monitored Unmonitored Search

Extension	Time Stamp
6001	Thursday, July 2, 2020 11:05:00 PM
6002	Thursday, July 2, 2020 11:05:00 PM
6005	Thursday, July 2, 2020 11:05:00 PM

< 1 > 10 rows per page

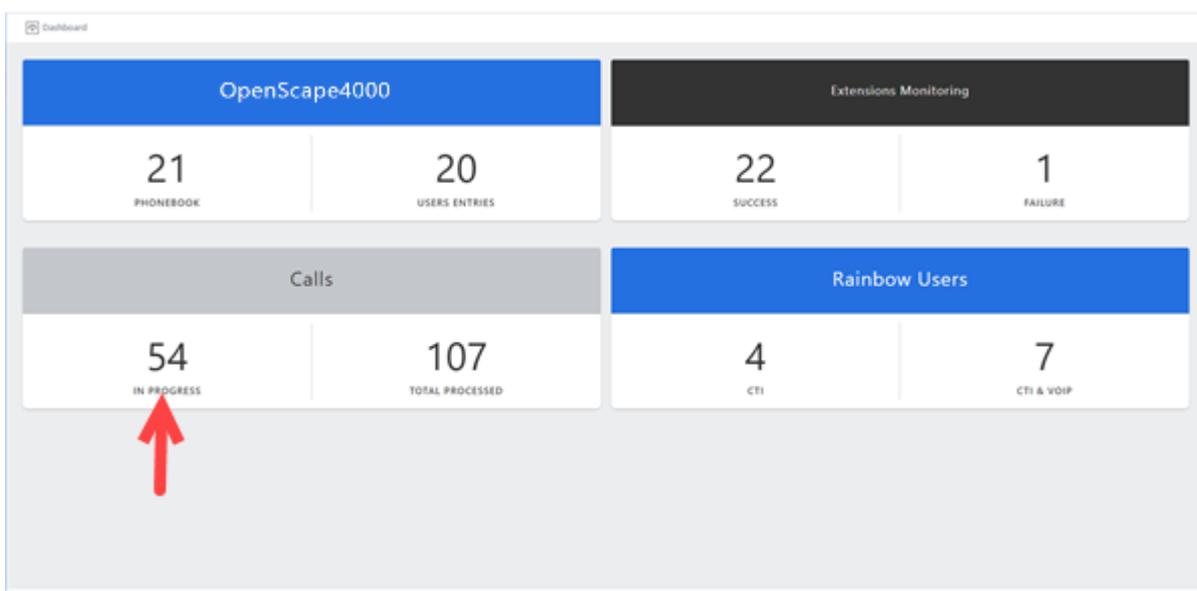
Screenshot-Unmonitored Extensions

Key in the extension number in order to search for a specific unmonitored extension.

4.5 Seeing active calls in the system

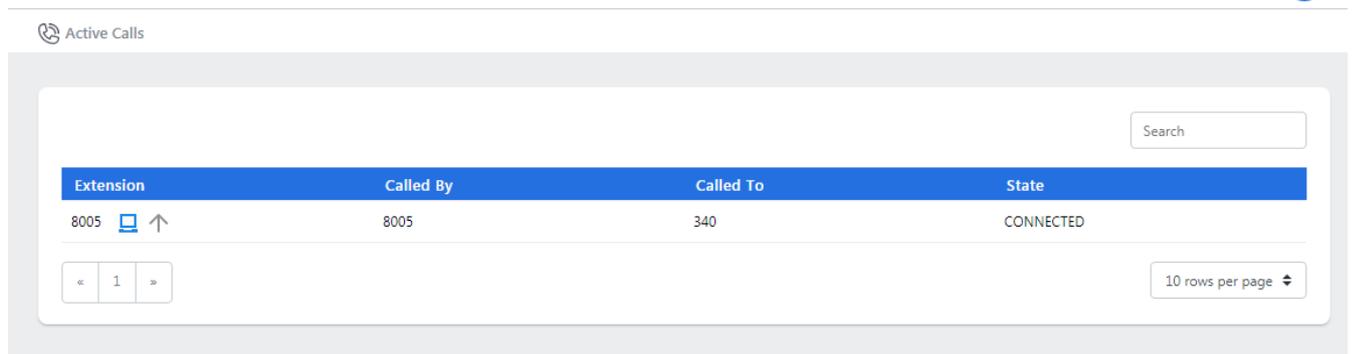
Rainbow CTI & Media Bridge provides a way to see the currently in-progress calls in the system. This may be needed during troubleshooting to see if certain calls are being recognized and correctly passed on to Rainbow Server.

To see the details of the calls in progress; click on “IN PROGRESS” from Calls widget, as shown below.



Screenshot-Dashboard

You will be presented with the screen with calls' current state, as shown below.



The screenshot shows the 'Active Calls' screen with a search bar and a table of active calls. The table has columns for Extension, Called By, Called To, and State. A single row is visible with the following data: Extension 8005, Called By 8005, Called To 340, and State CONNECTED. There is also a pagination control showing '1' and a '10 rows per page' dropdown.

Extension	Called By	Called To	State
8005	8005	340	CONNECTED

Screenshot-Active Calls

Connected calls will be shown, as below.

Active Calls

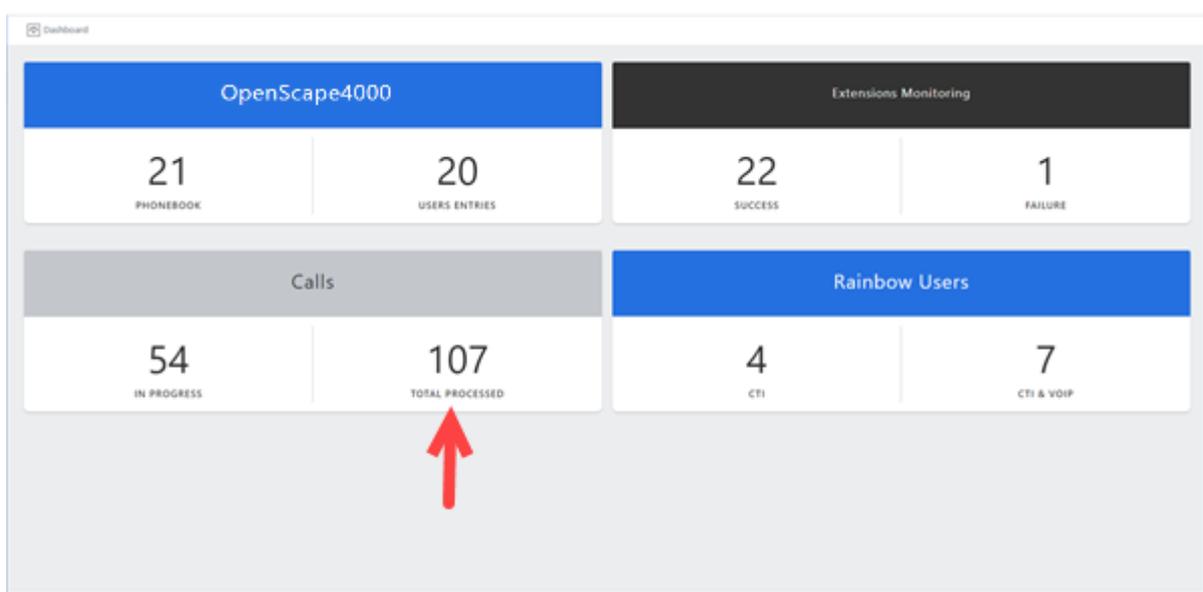
Extension	Called By	Called To	State
8005  	8005	340	CONNECTED

< 1 >

10 rows per page

Screenshot- Active Calls

The “**Total Processed**” stat shows the total number of calls; Rainbow CTI & Media Bridge service has processed since its last restart.

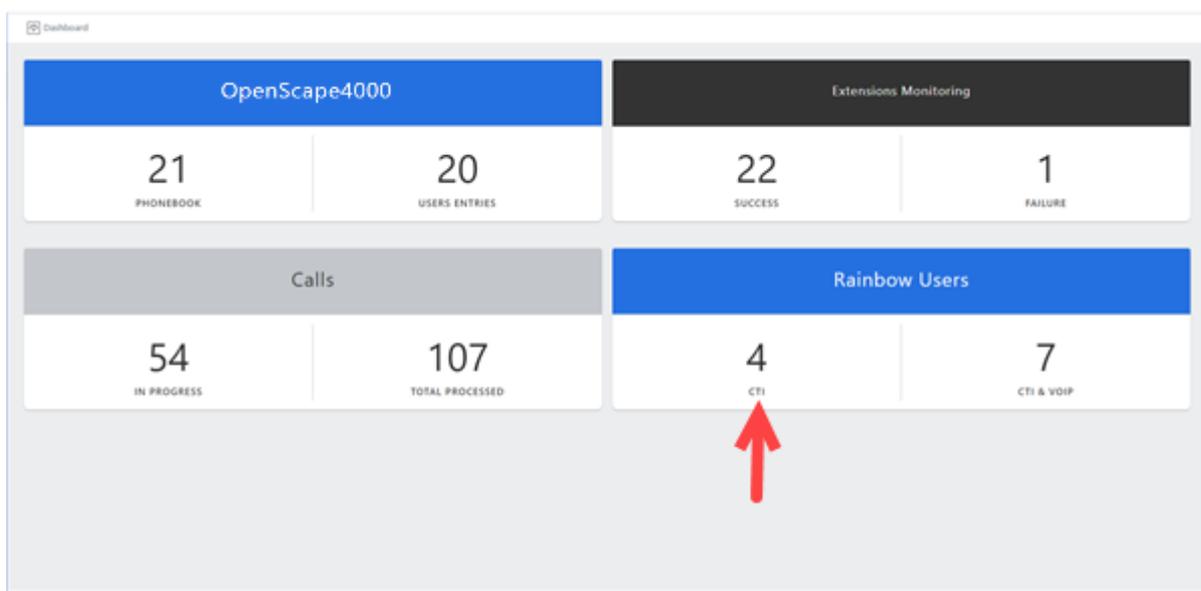


Screenshot-Dashboard

4.6 Seeing active users in the system

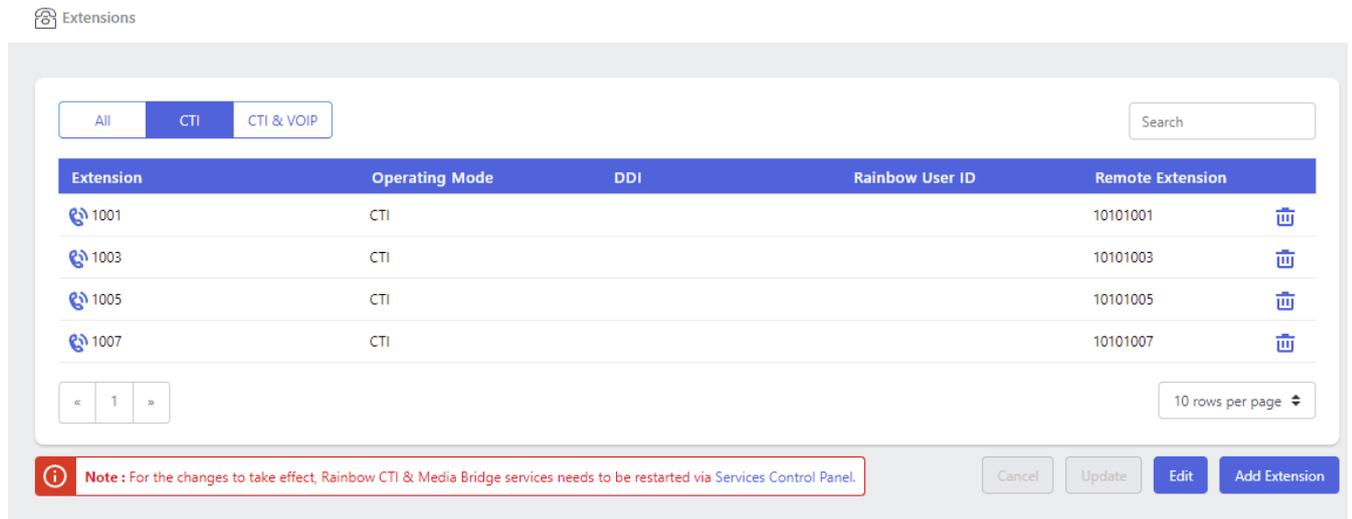
Rainbow CTI & Media Bridge provides a way to see the currently active users in the system (CTI users as well as CTI & VOIP users).

To see the details of the CTI users; click on “CTI” from **Rainbow Users** widget, as shown below:



Screenshot-Dashboard

You will be presented with the screen with Rainbow users using CTI extension, as shown below.



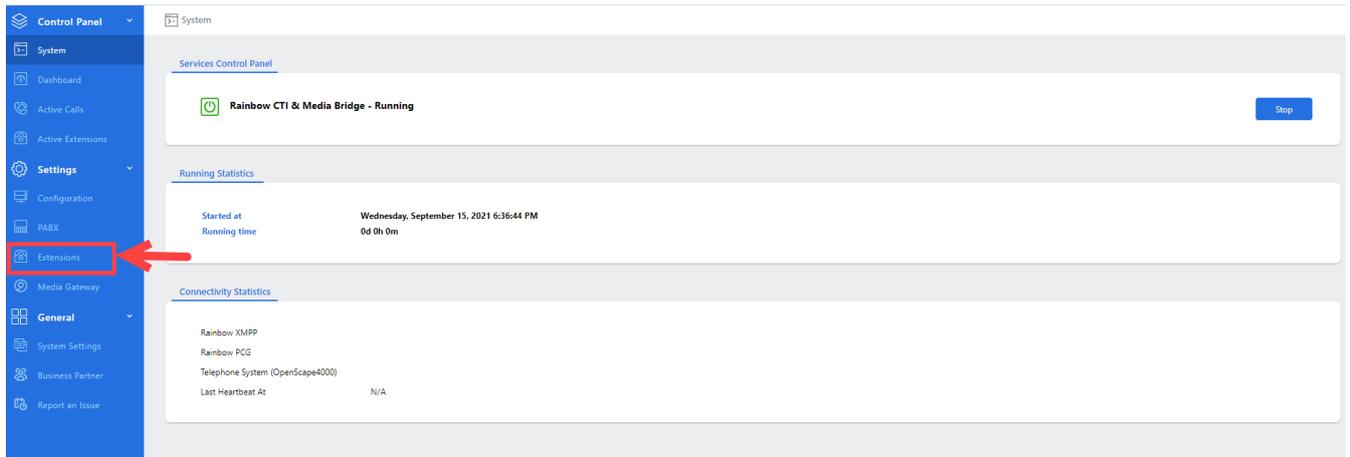
The screenshot shows the 'Extensions' management screen. The 'CTI' tab is selected. The table below lists the CTI extensions.

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1001	CTI		10101001	
1003	CTI		10101003	
1005	CTI		10101005	
1007	CTI		10101007	

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

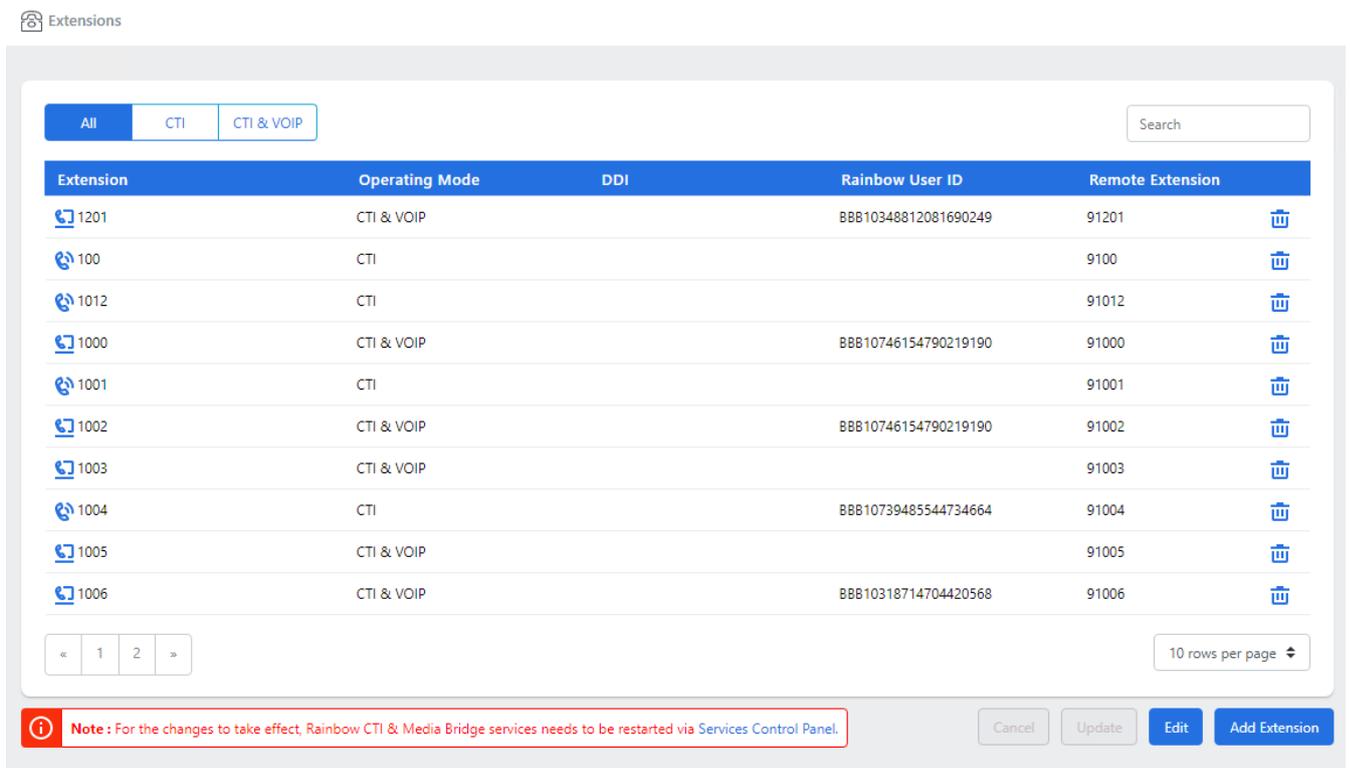
Screenshot- CTI Extensions

You can also go to statistics screen by clicking on the Extension tab from the left menu, as shown.



Screenshot-System

You will be presented with the list of all user both CTI and CTI & VOIP extensions, as shown below:



Screenshot- Extensions

Click on the **CTI** tab from top menu, as shown below.

Extensions

All **CTI** CTI & VOIP

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1201	CTI & VOIP		BBB10348812081690249	91201
100	CTI			9100
1012	CTI			91012
1000	CTI & VOIP		BBB10746154790219190	91000
1001	CTI			91001
1002	CTI & VOIP		BBB10746154790219190	91002
1003	CTI & VOIP			91003
1004	CTI		BBB10739485544734664	91004
1005	CTI & VOIP			91005
1006	CTI & VOIP		BBB10318714704420568	91006

< 1 2 > 10 rows per page

Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#). Cancel Update Edit Add Extension

Screenshot- Extensions

You will be presented with the CTI extensions, as shown below

Extensions

All **CTI** CTI & VOIP

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1001	CTI			10101001
1003	CTI			10101003
1005	CTI			10101005
1007	CTI			10101007

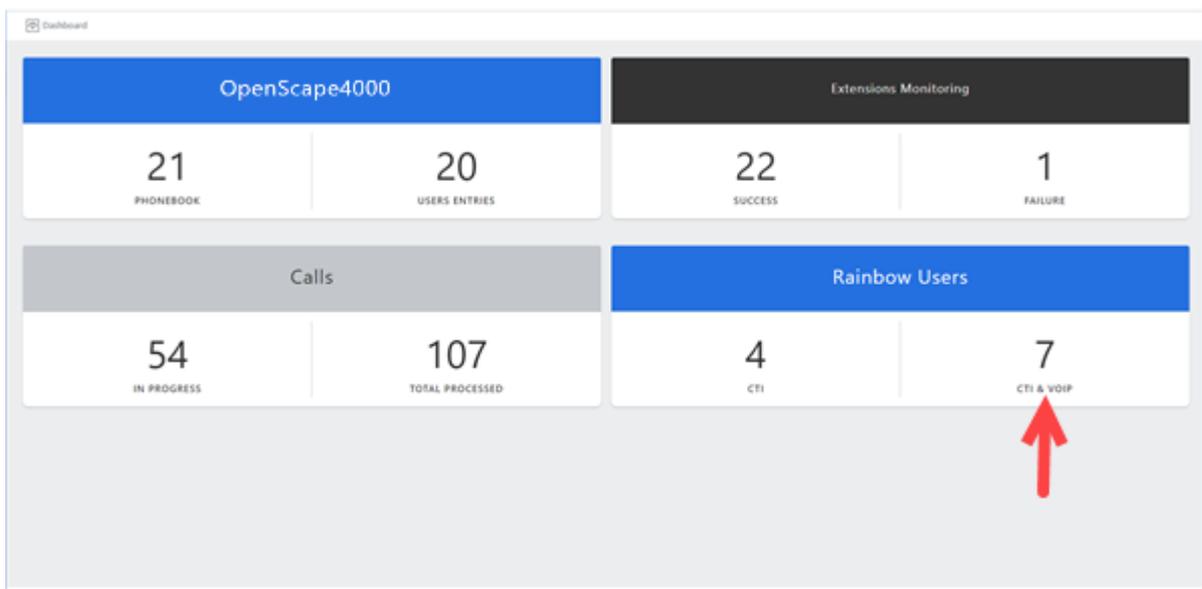
< 1 > 10 rows per page

Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#). Cancel Update Edit Add Extension

Screenshot- CTI Extensions

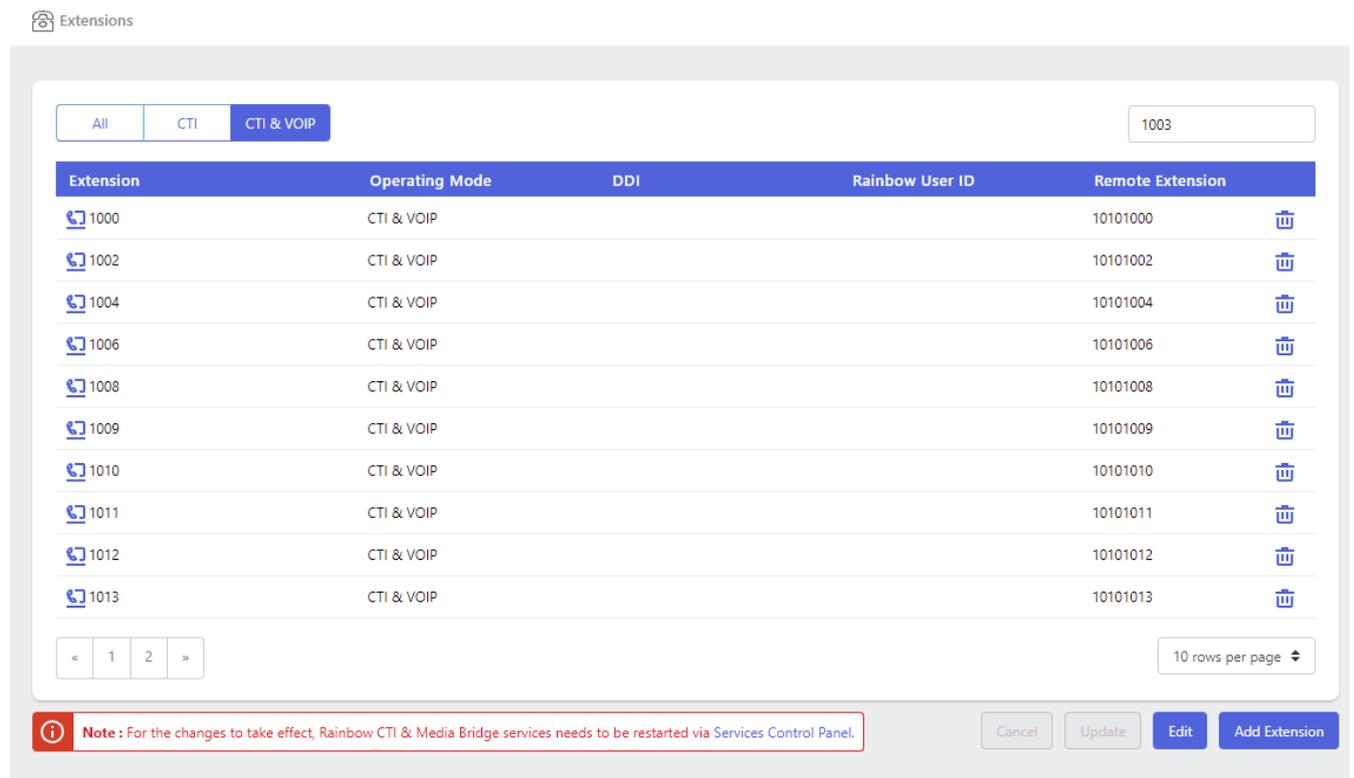
Key in the extension number in order to search for a specific monitored extension.

To see the details of the CTI & VOIP users; click on “CTI & VOIP” from **Rainbow Users** widget, as shown below.



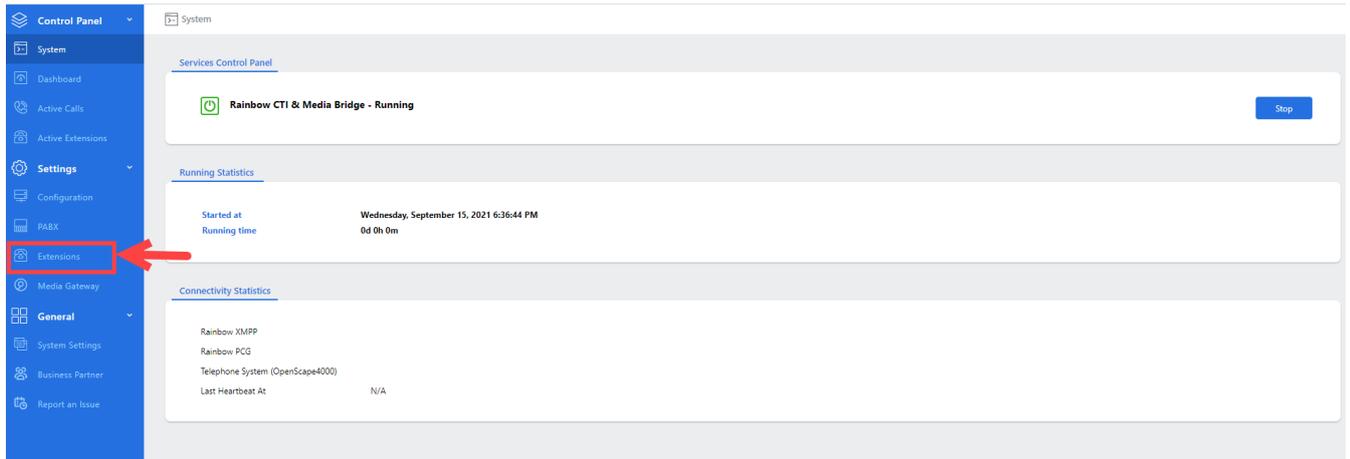
Screenshot-Dashboard

You will be presented with the screen with Rainbow users using CTI & VOIP extension, as shown below.



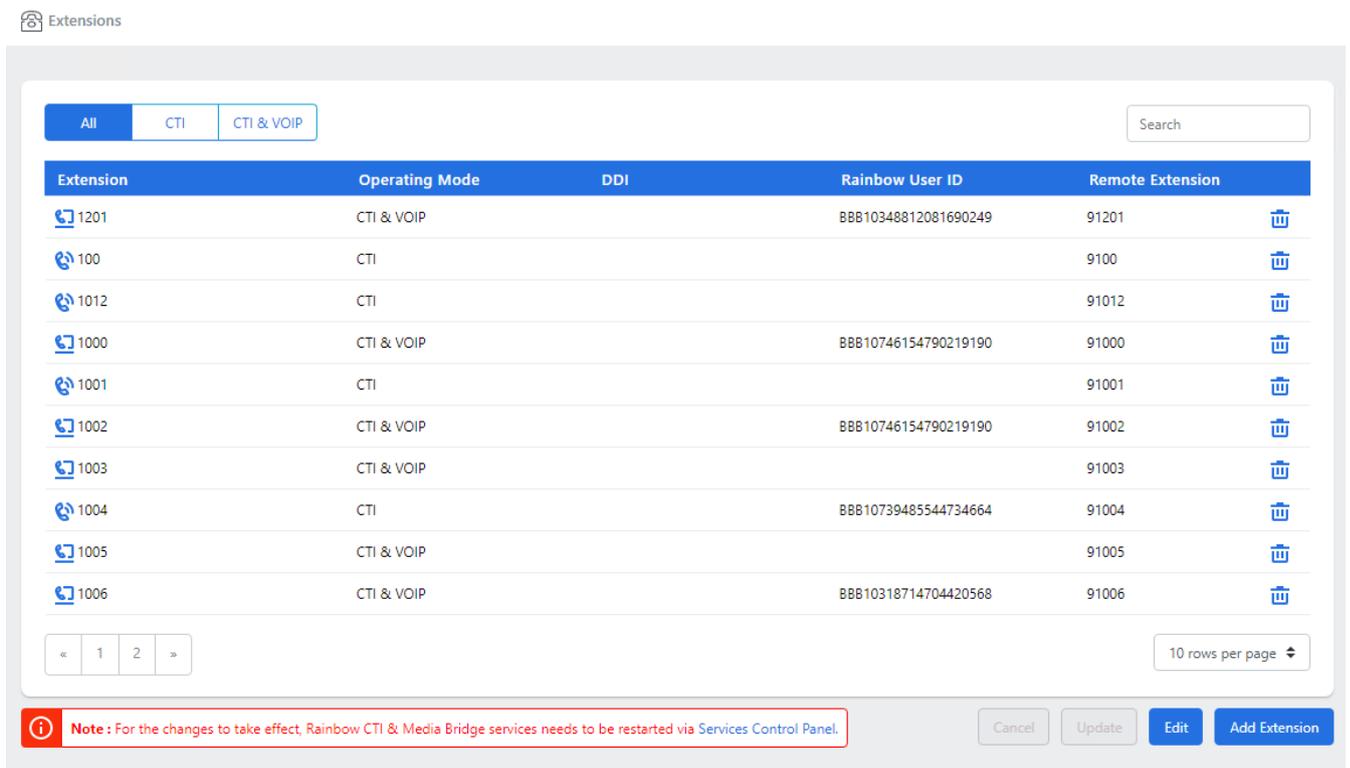
Screenshot-CTI & VOIP Extensions

You can also go to statistics screen by clicking on the Extension tab from the left menu, as shown.



Screenshot-System

You will be presented with the list of all user both CTI and CTI & VOIP extensions, as shown below:



Screenshot- Extensions

Click on the **CTI & VOIP** tab from top menu, as shown below.

Extensions

All
CTI
CTI & VOIP

Search

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension	
 1201	CTI & VOIP		BBB10348812081690249	91201	
 100	CTI			9100	
 1012	CTI			91012	
 1000	CTI & VOIP		BBB10746154790219190	91000	
 1001	CTI			91001	
 1002	CTI & VOIP		BBB10746154790219190	91002	
 1003	CTI & VOIP			91003	
 1004	CTI		BBB10739485544734664	91004	
 1005	CTI & VOIP			91005	
 1006	CTI & VOIP		BBB10318714704420568	91006	

< 1 2 >

10 rows per page

Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#).

Cancel
Update
Edit
Add Extension

Screenshot- Extensions

You will be presented with the CTI & VOIP extensions, as shown below

Extensions

All
CTI
CTI & VOIP

1003

Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension	
 1000	CTI & VOIP			10101000	
 1002	CTI & VOIP			10101002	
 1004	CTI & VOIP			10101004	
 1006	CTI & VOIP			10101006	
 1008	CTI & VOIP			10101008	
 1009	CTI & VOIP			10101009	
 1010	CTI & VOIP			10101010	
 1011	CTI & VOIP			10101011	
 1012	CTI & VOIP			10101012	
 1013	CTI & VOIP			10101013	

< 1 2 >

10 rows per page

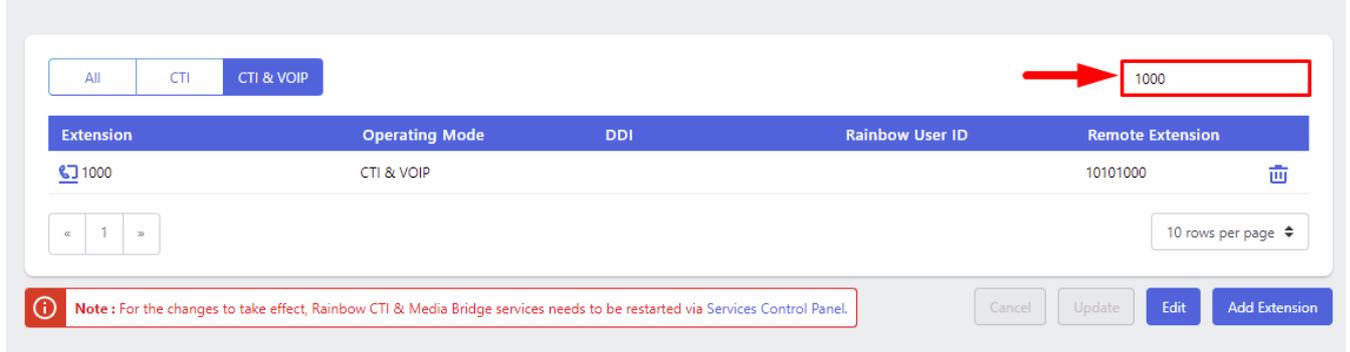
Note : For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#).

Cancel
Update
Edit
Add Extension

Screenshot- CTI & VOIP Extensions

Key in the extension number in order to search for a specific monitored extension, as shown below.

Extensions



Extension	Operating Mode	DDI	Rainbow User ID	Remote Extension
1000	CTI & VOIP			10101000

Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

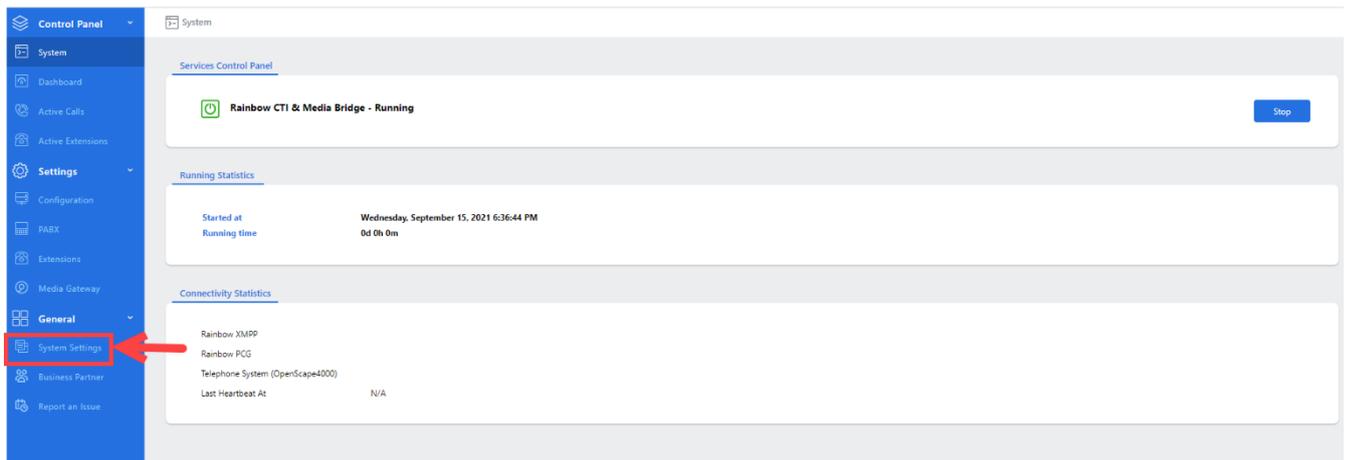
Cancel Update Edit Add Extension

Screenshot-CTI & VOIP Extensions

5 General

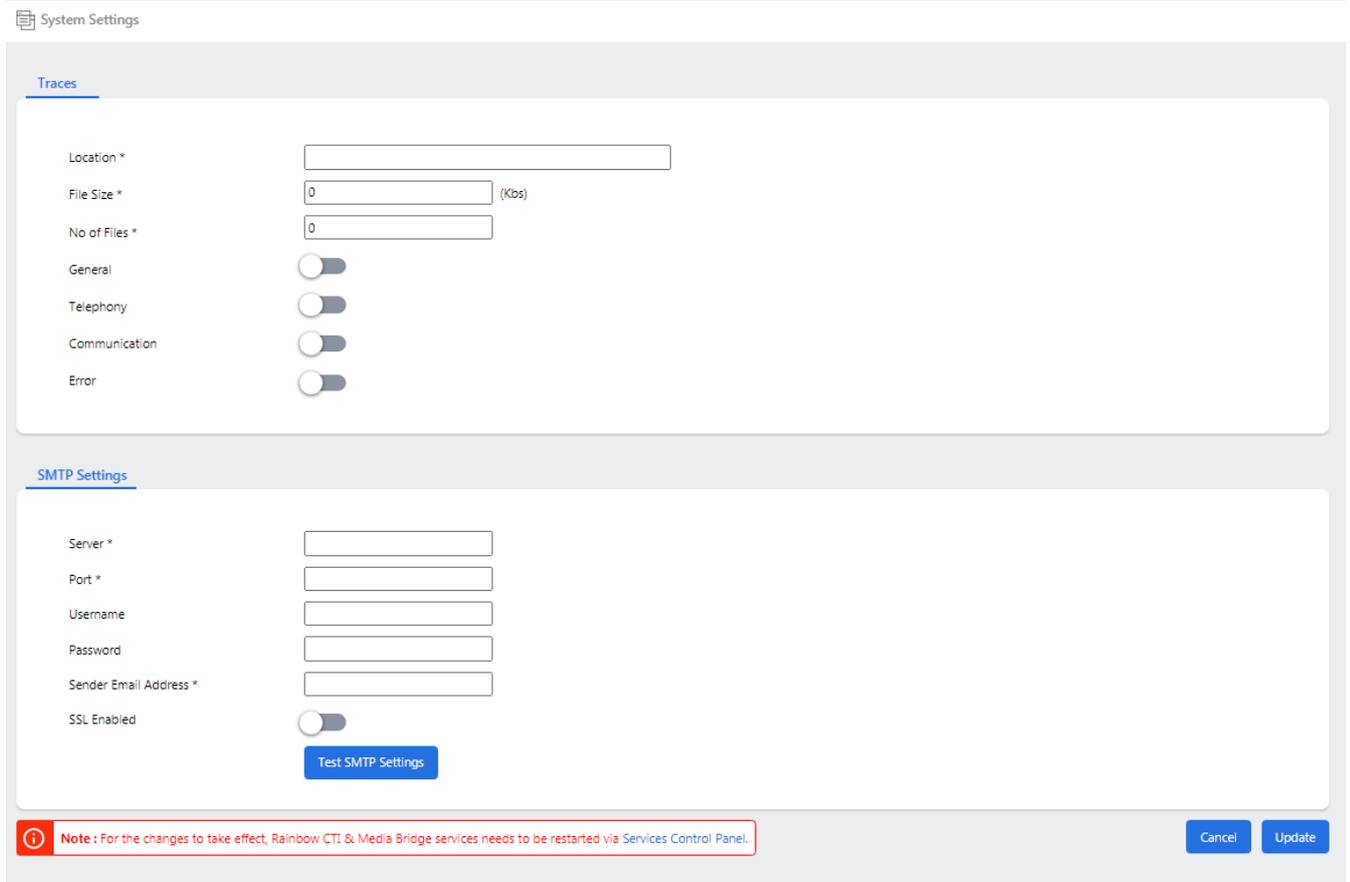
5.1 System Settings

In order to setup traces and SMTP settings, click on System settings option in the left-hand menu as shown below:



Screenshot-System

Following screen will be displayed:



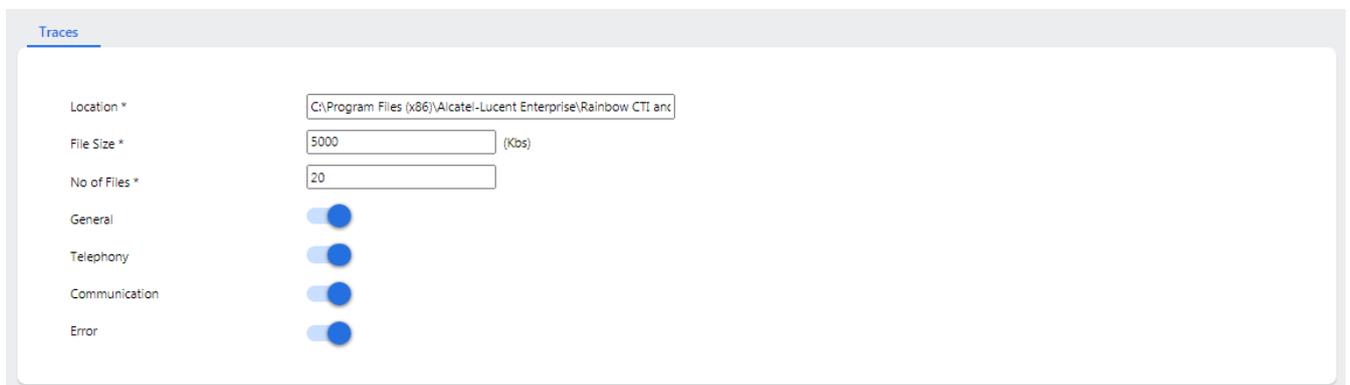
The screenshot shows the 'System Settings' page with two main sections: 'Traces' and 'SMTP Settings'.
Traces Section:
 - Location *: [Empty text box]
 - File Size *: [0] (Kbs)
 - No of Files *: [0]
 - General: [Off toggle]
 - Telephony: [Off toggle]
 - Communication: [Off toggle]
 - Error: [Off toggle]
SMTP Settings Section:
 - Server *: [Empty text box]
 - Port *: [Empty text box]
 - Username: [Empty text box]
 - Password: [Empty text box]
 - Sender Email Address *: [Empty text box]
 - SSL Enabled: [Off toggle]
 - Test SMTP Settings: [Blue button]
Footer:
 - Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.
 - Cancel [Blue button] | Update [Blue button]

Rainbow CTI & Media Bridge 2021

Screenshot - System Settings

5.1.1 Traces

The first section of System settings page is concerned with configuration of traces. A combination of Traces categories can be selected to generate logs only for the relevant information that is needed for troubleshooting. Once you have entered the details into each field, click **Update**, as shown below



This screenshot shows the 'Traces' configuration section with the following values entered:
 - Location *: C:\Program Files (x86)\Alcatel-Lucent Enterprise\Rainbow CTI and
 - File Size *: 5000 (Kbs)
 - No of Files *: 20
 - General: [On toggle]
 - Telephony: [On toggle]
 - Communication: [On toggle]
 - Error: [On toggle]

Screenshot-Traces

NOTE: *The more comprehensive the traces are, the more CPU resources are used up by the server. Please be careful when setting up tracing level.*

NOTE: *Traces do not need to be enabled during usual functional activities. If there is an issue being experienced then support engineers can set the appropriate trace levels. CTI & Media Bridge service restart is required after updating the traces configuration.*

5.1.2 SMTP Settings

Rainbow CTI & Media Bridge provides the ability to send emails to business partners whenever an issue is encountered in the application. In order to activate this email feature, you need to provide details of the SMTP server that will be used to send the emails.

To configure SMTP settings, you need to provide the following information:

Server:

This is IP address domain name of your SMTP server.

Port:

This is the port used for sending emails by SMTP server.

Username:

This is the username used when sending emails from Rainbow CTI & Media Bridge to your SMTP Server.

Password:

This is the password used when sending email from Rainbow CTI & Media Bridge to your SMTP server.

Sender Email Address:

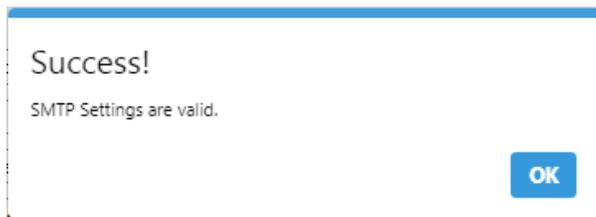
This is the email address used for sending the emails.

SSL Enabled:

This is the connection that will be used for sending emails from secure SMTP server. This option should be checked, if you're using TLS enabled secure SMTP server.

Note: *Username and password are optional fields for cases where Authentication is not setup for outgoing SMTP server.*

A special button by the name of Test SMTP settings is available at the bottom of the section. Click on it and if the settings are valid, following pop up window will be displayed:



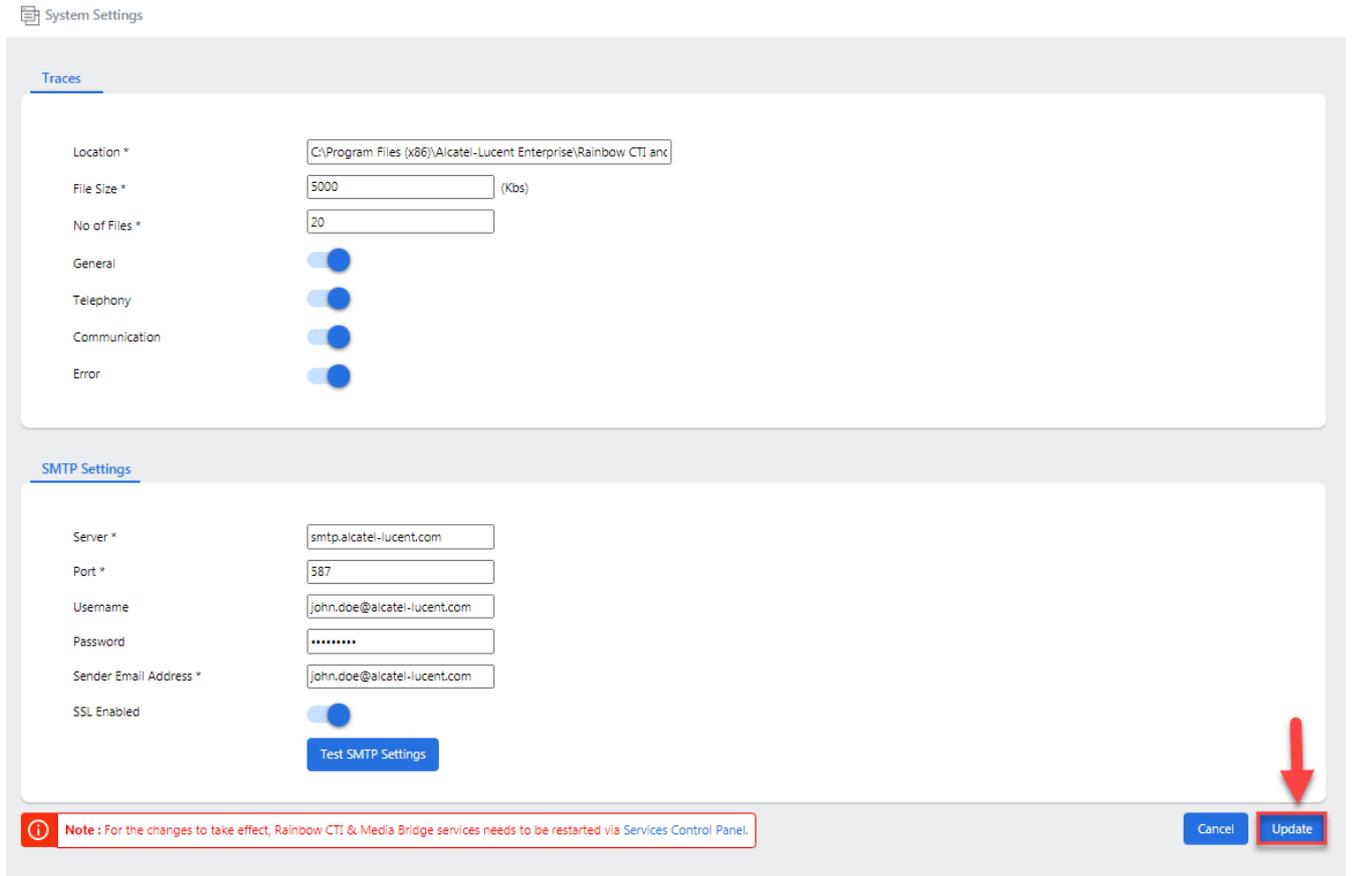
Screenshot-Message from Application

In case of invalid SMTP settings, following pop up window will be displayed:



Screenshot-Message from Application

Once you have provided required information in Traces section and SMTP settings section, click on Update button as shown below:



The screenshot shows the 'System Settings' interface with two sections: 'Traces' and 'SMTP Settings'. The 'Traces' section includes fields for 'Location *' (C:\Program Files (x86)\Alcatel-Lucent Enterprise\Rainbow CTI anc), 'File Size *' (5000 Kbs), and 'No of Files *' (20). Below these are five toggle switches for 'General', 'Telephony', 'Communication', and 'Error', all of which are turned on. The 'SMTP Settings' section includes fields for 'Server *' (smtp.alcatel-lucent.com), 'Port *' (587), 'Username' (john.doe@alcatel-lucent.com), 'Password' (masked with dots), and 'Sender Email Address *' (john.doe@alcatel-lucent.com). There is also an 'SSL Enabled' toggle switch which is turned on, and a 'Test SMTP Settings' button. At the bottom right, there are 'Cancel' and 'Update' buttons. A red arrow points to the 'Update' button. A red box highlights the 'Update' button. A red arrow points to the 'Update' button. A red box highlights the 'Update' button. A red arrow points to the 'Update' button. A red box highlights the 'Update' button.

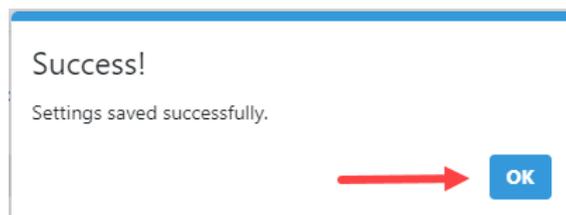
Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via Services Control Panel.

Cancel Update

Rainbow CTI & Media Bridge 2021

Screenshot - System Settings

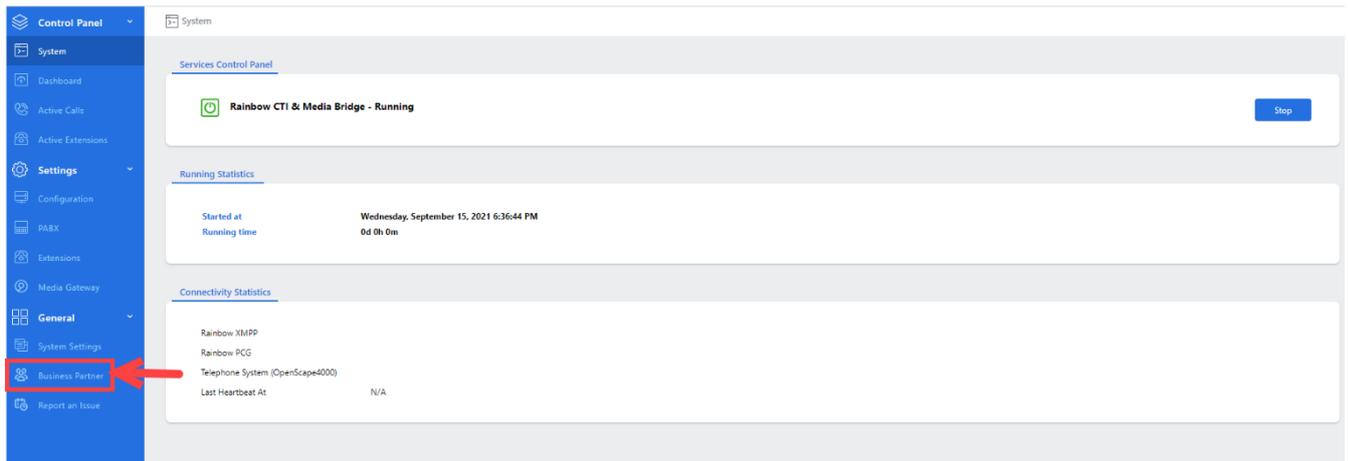
You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

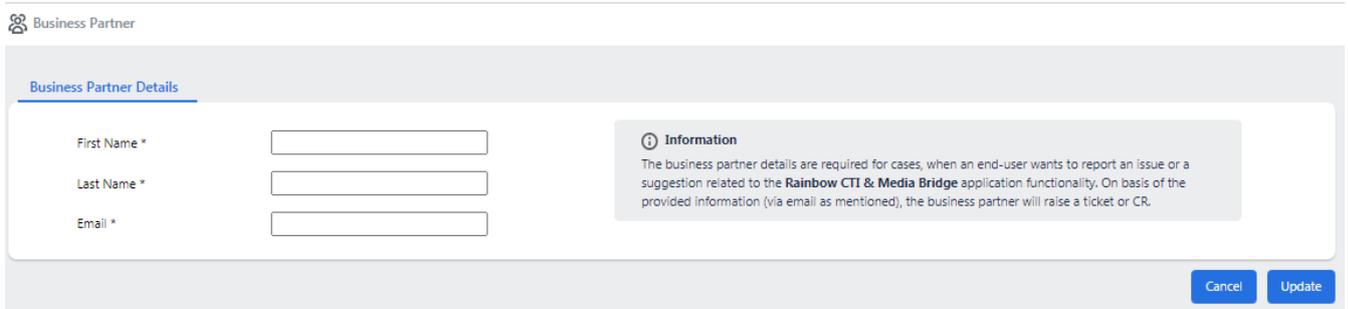
5.2 Business Partner

Rainbow CTI & Media Bridge enables users to send emails to their businesses partners whenever a technical issue is encountered through Report an Issue section. Information provided in Business partner section is used to send an email to your cornered partner. In order to provide contact information for your partner, click on Business Partner option in left hand menu as shown below:



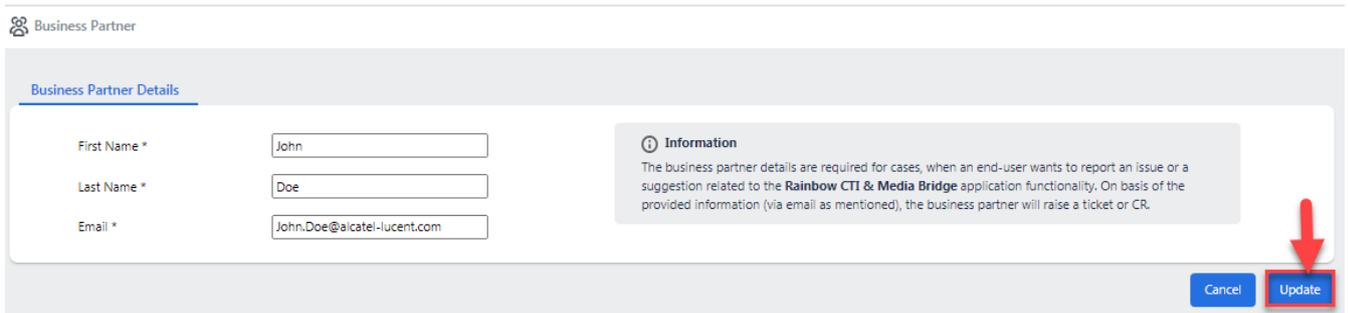
Screenshot - System

Following page will be displayed:



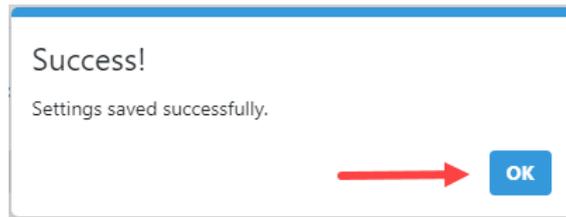
Screenshot - Business Partner

All the fields in this page are self-explanatory. Once the required information is entered, click on the update button as displayed below:



Screenshot - Business Partner

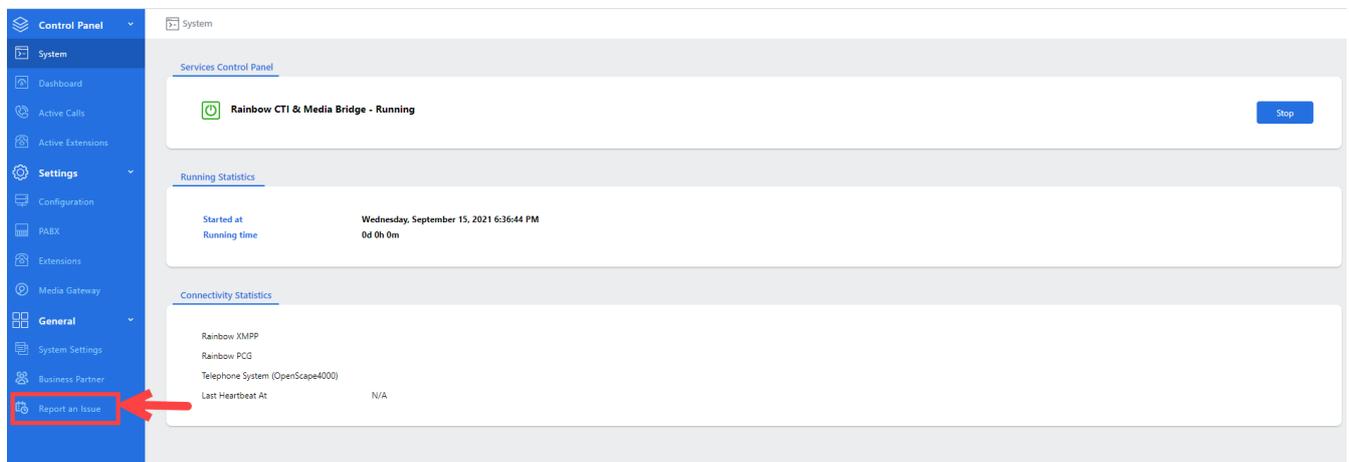
You will be presented with the popup window, click **OK**, as shown below:



Screenshot-Message from Application

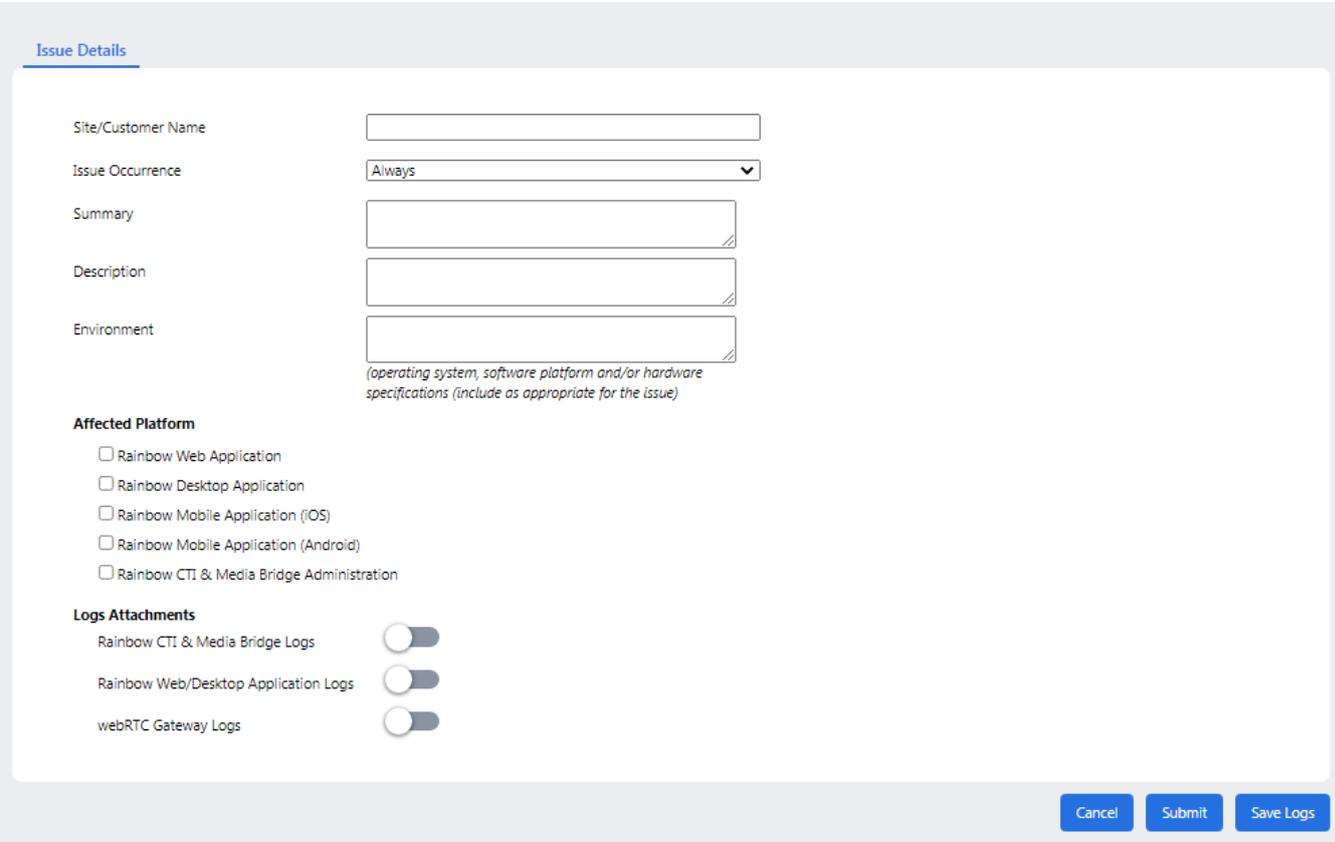
5.3 Report an Issue

Users of Rainbow CTI & Media Bridge are empowered to report any technical issue to their business partner from within the application. For this, click on Report an Issue option from the left menu as shown below:



Screenshot - System

Following screen will be displayed:



Report an Issue

Issue Details

Site/Customer Name

Issue Occurrence

Summary

Description

Environment

(operating system, software platform and/or hardware specifications (include as appropriate for the issue))

Affected Platform

Rainbow Web Application

Rainbow Desktop Application

Rainbow Mobile Application (iOS)

Rainbow Mobile Application (Android)

Rainbow CTI & Media Bridge Administration

Logs Attachments

Rainbow CTI & Media Bridge Logs

Rainbow Web/Desktop Application Logs

webRTC Gateway Logs

Cancel Submit Save Logs

Screenshot - Report an Issue

Provide the necessary information in the following fields:

Site /Customer Name:

Provide name of site or customer in this field.

Issue Occurrence:

Select an option that gives a general ideal of how many times does this particular issue occurs. Following options are available:

- Always
- Intermittent
- Rarely

Summary:

Provide a short subject or summary of the technical issue that you are facing.

Description:

Provide a detailed description of the technical issue that you are facing.

Environment:

Provide details about the environment in which the technical issue has been raised.

Affected platform:

Select the platform in which the technical issue has been raised.

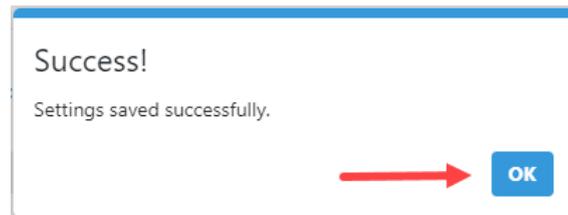
Logs Attachments

Select the appropriate logs that should be sent as attachments with the email to Business Partner.

Note: *While reporting an issue, it is advisable to attach the logs (from the required module) as it will help to better understand the problem. However, it is not mandatory and an issue can be reported (via an email) without attaching any logs.*

Once you have provided the necessary information, click on **Submit** button.

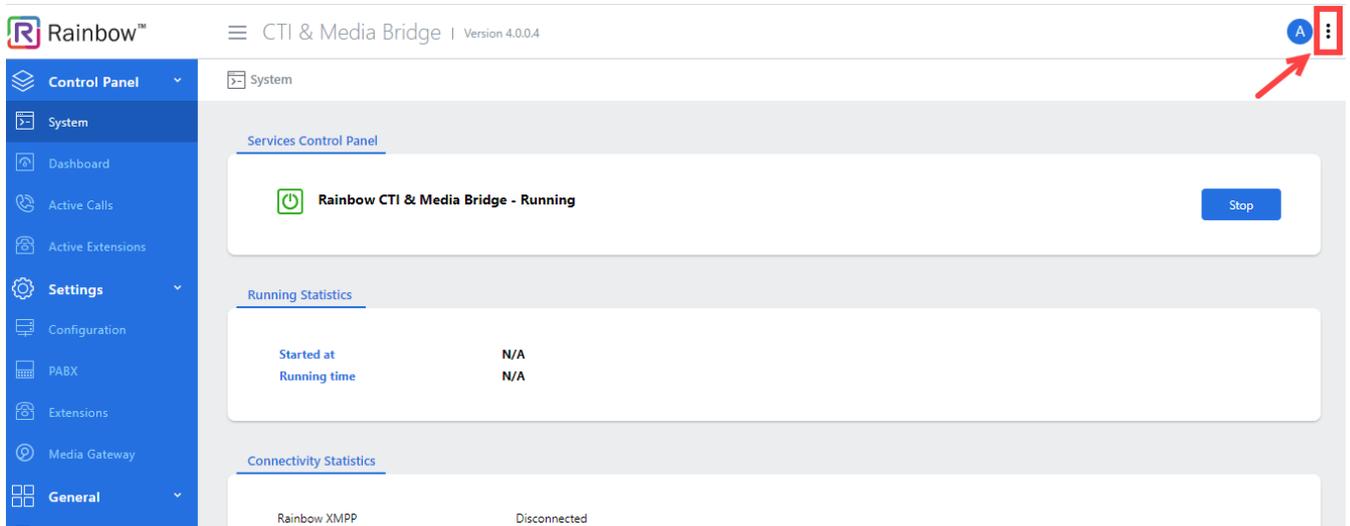
You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

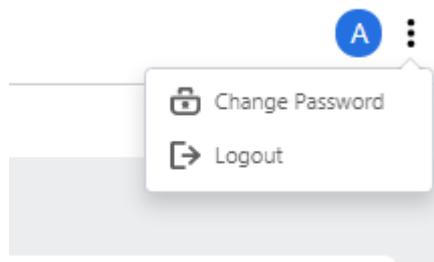
6 Change Password

Users of Rainbow CTI & Media Bridge application can change their account password by clicking on the  icon displayed in the top right corner of any screen as highlighted below:



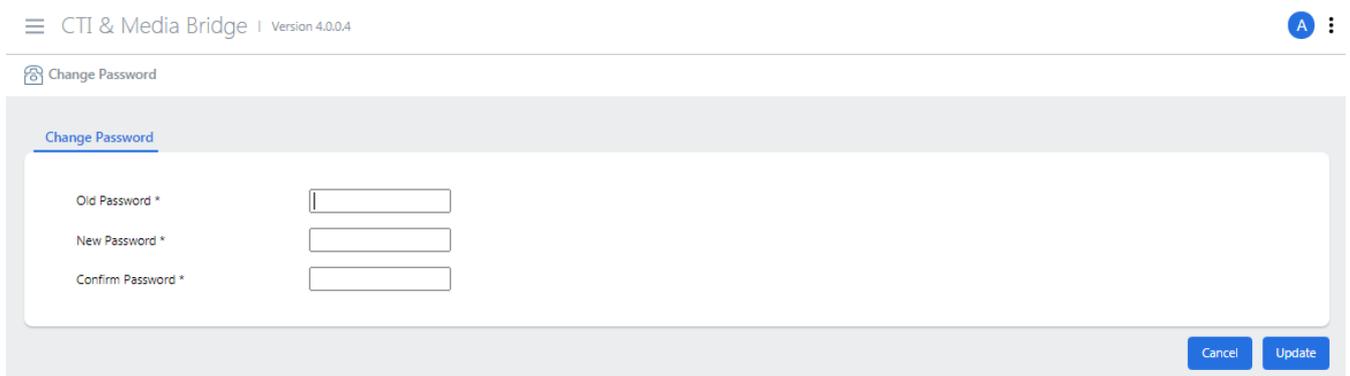
Screenshot-System

Following menu opens up when you click on this icon:



Screenshot- Drop Down Menu

Click on Change Password option and following screen is displayed:

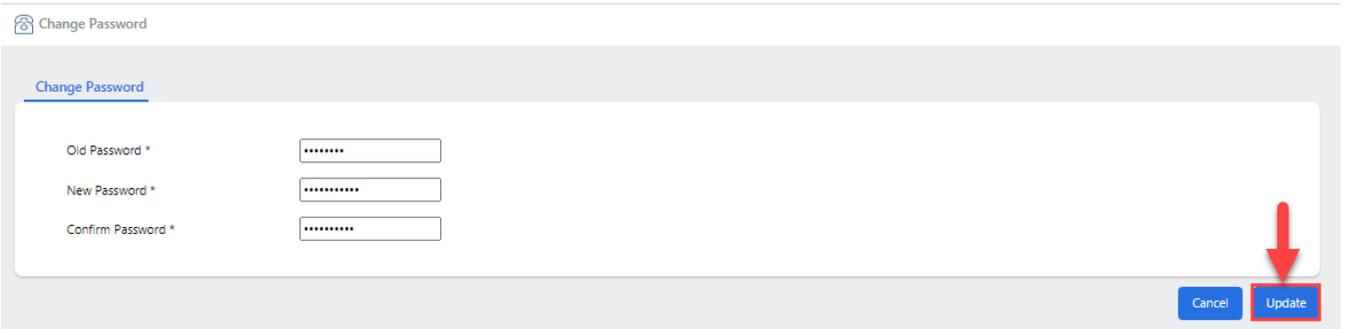


Screenshot- Change Password

All the fields are self-explanatory.

Note: *New password must consist of more than 7 characters.*

Once you have provided required information. Click on Update button as displayed below:



Change Password

Change Password

Old Password *

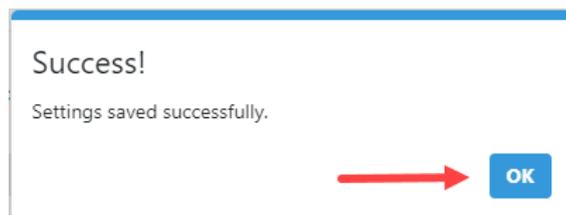
New Password *

Confirm Password *

Cancel Update

Screenshot- Change Password

You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

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