

R a i n b o w C T I & M e d i a B r i d g e (C I S C O) - 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	22/08/2017	Initial Administration Guide created
02	15/02/2018	Added Real-time statistics description along with screenshots
03	25/02/2019	Changes have been made in description and screenshots for Rainbow configuration section
04	18/07/2019	Proxy setting section has been added for rainbow configuration section
05	07/08/2019	CISCO setting section has been added
06	15/08/2019	PBX prefix settings for external calls has been added
07	07/01/2020	Copyright information has been updated in pages footer
08	19/11/2020	Screenshots have been updated to depict changes having been made in application UI
09	09/03/2021	<p>Legal notice has been updated.</p> <p>Section 2.3 Architecture diagram has been updated.</p> <p>Section 3.1 Screenshot has been added. Information about default username and password has been added. Screenshot has been updated.</p> <p>Section 3.2 Screenshots have been updated. PBX settings has been updated to Equipment Settings.</p> <p>Section 3.2.1 Screenshot has been updated.</p> <p>Section 3.2.2 Screenshot has been updated.</p> <p>Section 3.2.3 Title of section has been updated. Screenshots have been updated.</p> <p>Section 3.3 Title of section has been updated. Screenshots have been updated. Titles of sections have been updated.</p> <p>Section 3.3.1 New section has been added.</p> <p>Section 3.3.2 New section has been added.</p> <p>Section 3.4 Details about Media Gateway has been updated. Screenshots have been added. Titles of sections have been updated.</p> <p>Section 3.4.1 Title of section has been updated. Details about media settings section has been updated. Screenshots have been updated.</p> <p>Section 3.4.2 Title of section has been updated. Details about remote extensions section has been updated. Screenshots have been updated.</p> <p>Section 3.4.3 New section has been added.</p> <p>Section 3.5 Screenshots have been updated.</p> <p>Section 4.1 Screenshots have been updated.</p> <p>Section 4.2</p>

Edition	Date	Changes / Comments / Details
		<p>Screenshots have been updated. Section 4.2.1 Screenshots have been updated. Section 4.3 Screenshots have been updated. Section 4.4 Screenshots have been updated. Section 4.5 Screenshots have been updated. Section 4.6 New Section has been added. Section 5.1 Screenshots have been updated.</p>
10	27/05/2021	<p>Section 2.3 Architecture diagram has been updated. Section 3.1 Screenshots have been updated. Description for Administration start up has been updated. Screenshots have been added. Section 3.2 Screenshots have been updated. Section 3.3 Screenshots have been updated. Section 3.3.1 Description for Dial Plan Context has been updated. Description for External Outbound Prefix has been added. Section 3.3.2 Screenshot has been updated. Section 3.4 Description for Media Gateway has been updated. Screenshot has been updated. Section 3.4.1 Description for Media Settings has been updated. Screenshot has been updated. Section 3.4.2 Screenshot has been updated. Section 3.4.3 Screenshot has been updated. Section 3.5 Screenshots have been updated. Section 4 Title of section has been updated. Section 4.1 Title of section has been updated. Screenshots have been updated. Section 4.2 Screenshots have been updated. Section 4.2.1 Screenshots have been updated. Section 4.3 Screenshots have been updated. Section 4.4 Screenshots have been updated. Section 4.5 Screenshots have been updated. Section 4.6</p>

Edition	Date	Changes / Comments / Details
		New Section has been added. Section 5 Title of section has been updated. Section 5.1 Title of section has been updated. Screenshots have been updated. Section 5.2 New section has been added. Section 5.3 New section has been added. Section 6 New section has been added.
04	13/06/2024	Section 4 Screenshots have been updated.

2 Introduction

2.1 Overview - The Product

Rainbow CTI & Media Bridge is the collective name for Rainbow CTI applications and Media Gateway that connects to renowned third party telephone systems (PBXs) such as Cisco Unified Communication Manager with ALE Rainbow.

Rainbow CTI & Media Bridge is installed on a local machine in customer premises. It connects with Rainbow Server to retrieve the list of extensions and interacts with third-party telephone systems to provide rich telephony experience between ALE Rainbow and CUCM phone sets at the desk.

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

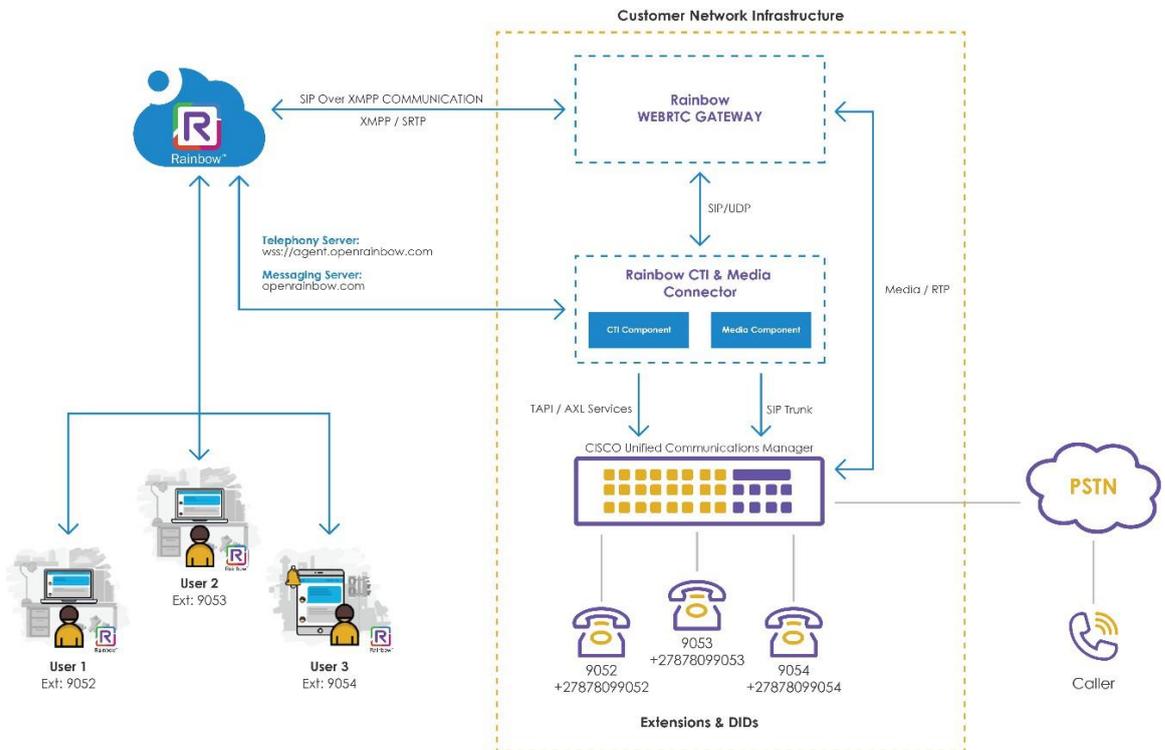
The Admin guide comes into effect once the installation is finished and its target audiences are System Administrators. This guide will walk through the administrative steps required for initial configuration and subsequent software maintenance.

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

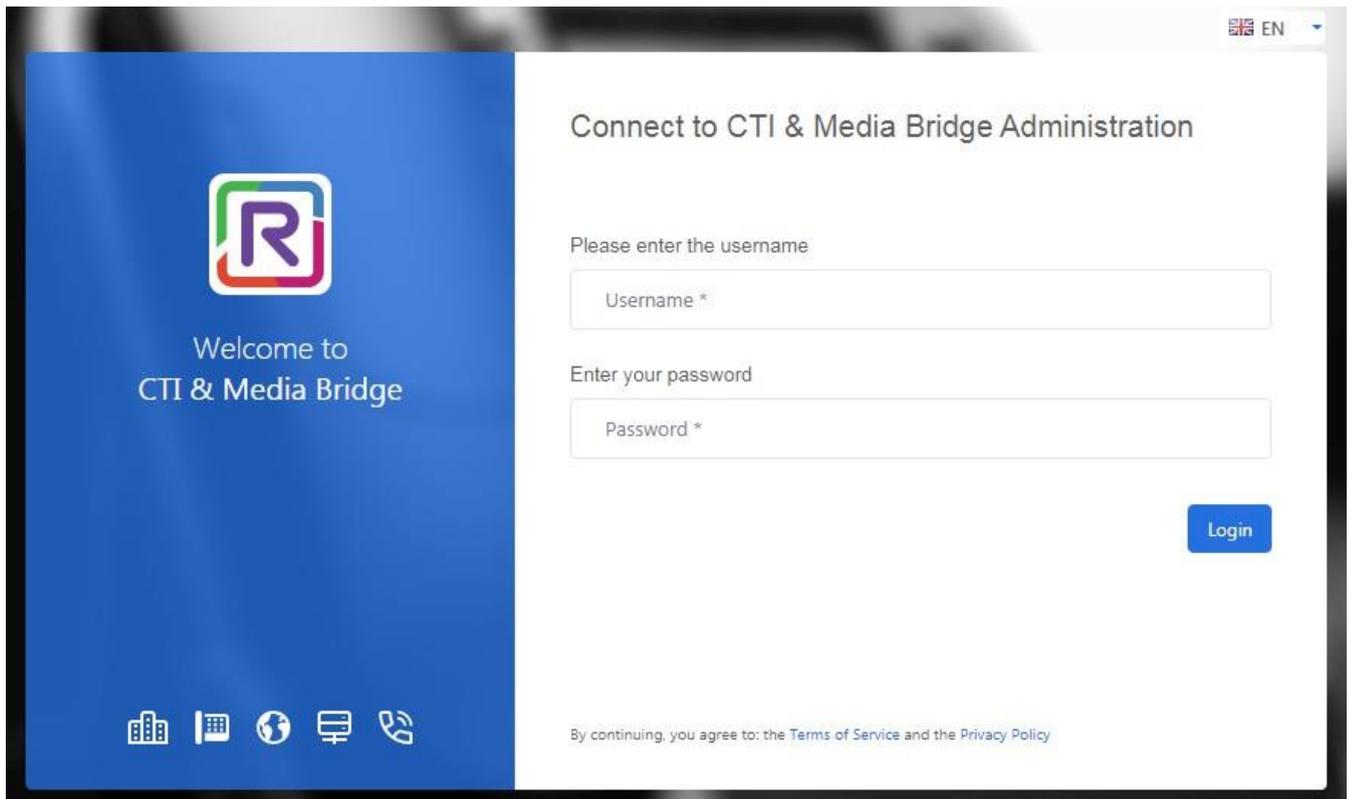


3 Configuration

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

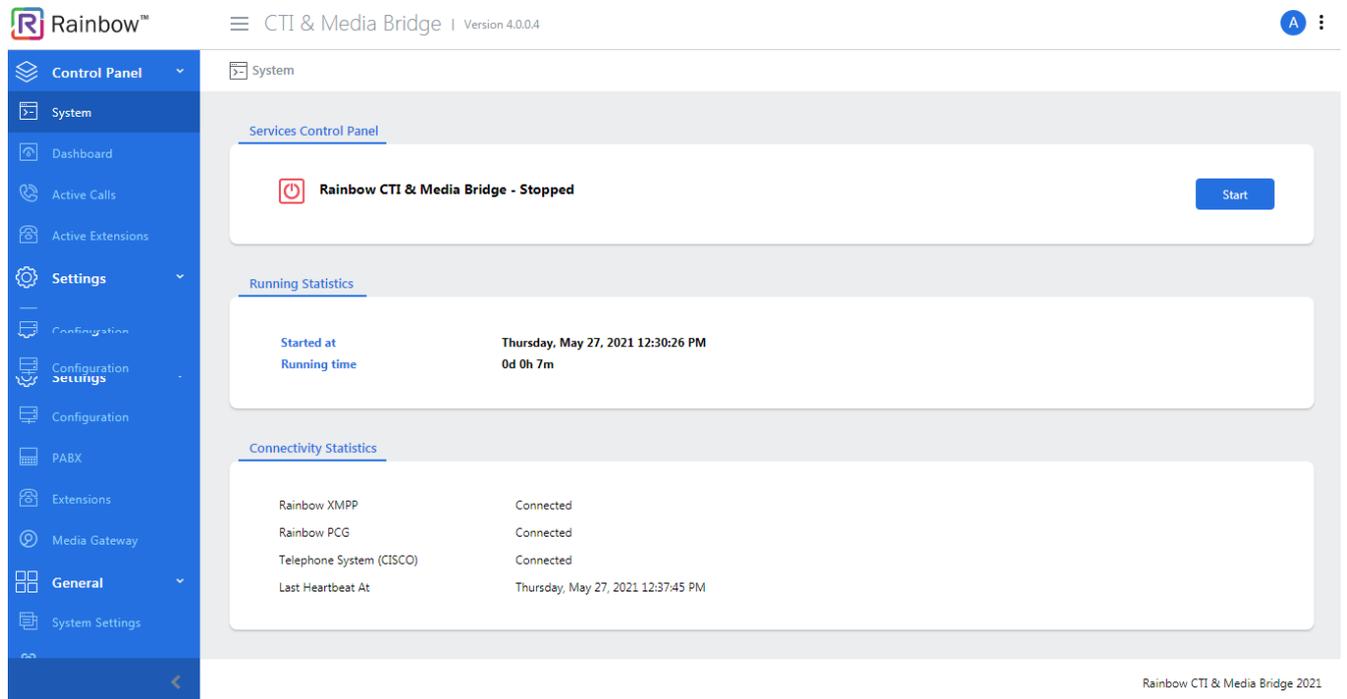
Once logged in, a web interface is displayed that will allow you to navigate around application using the left vertical panel.

The options are grouped under the following categories:

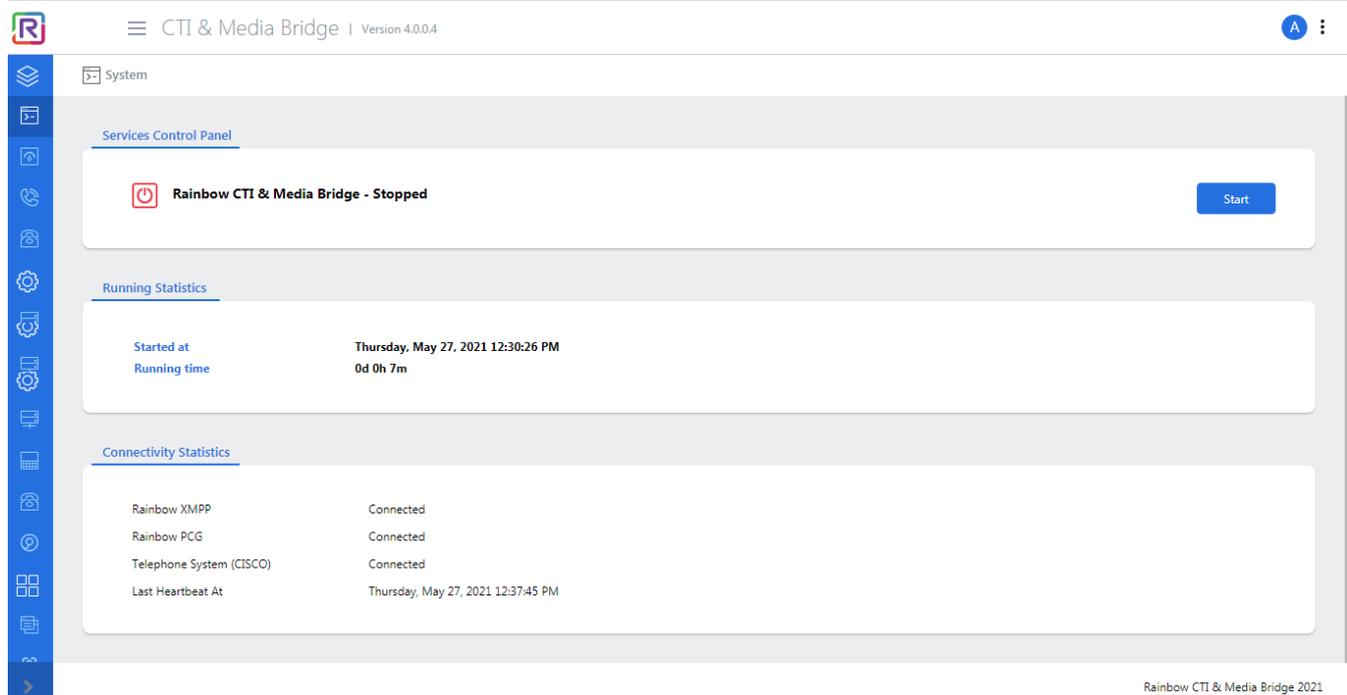
- Control Panel
- Settings
- General

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.



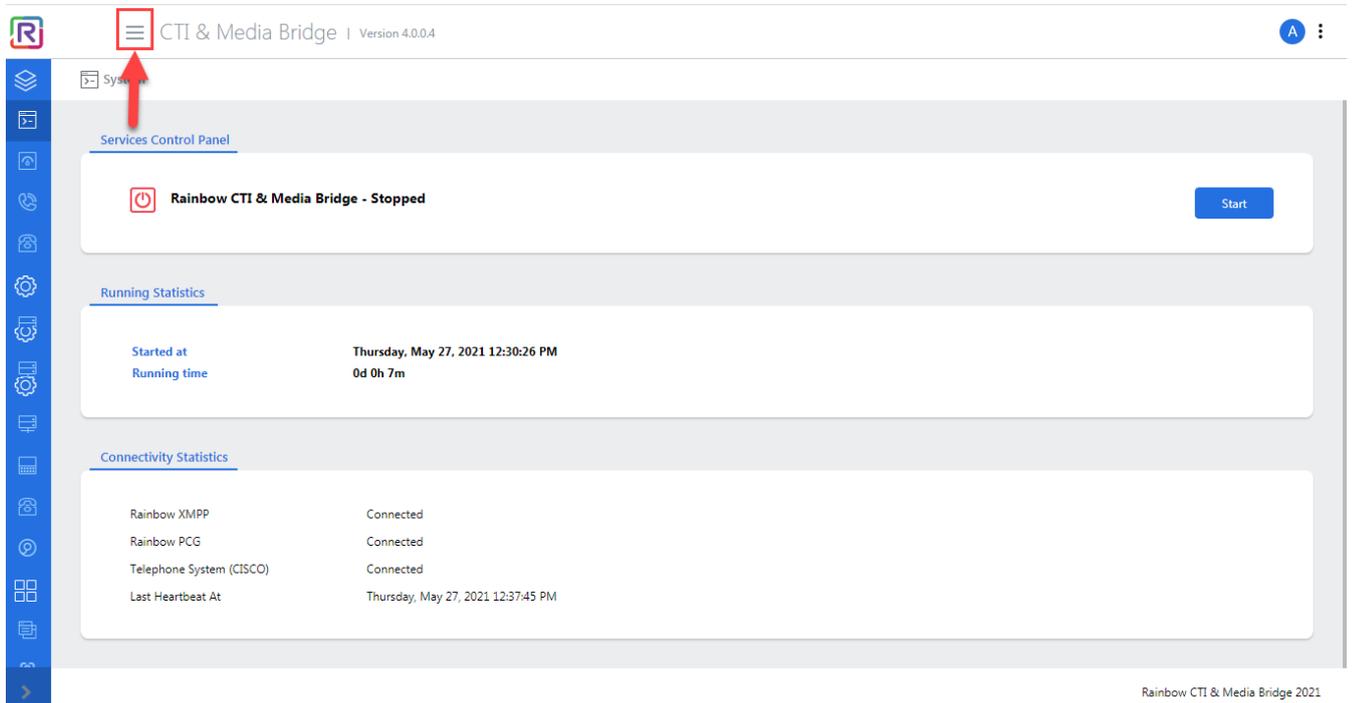
Screenshot-Slider Control with Left Hand Panel Displayed



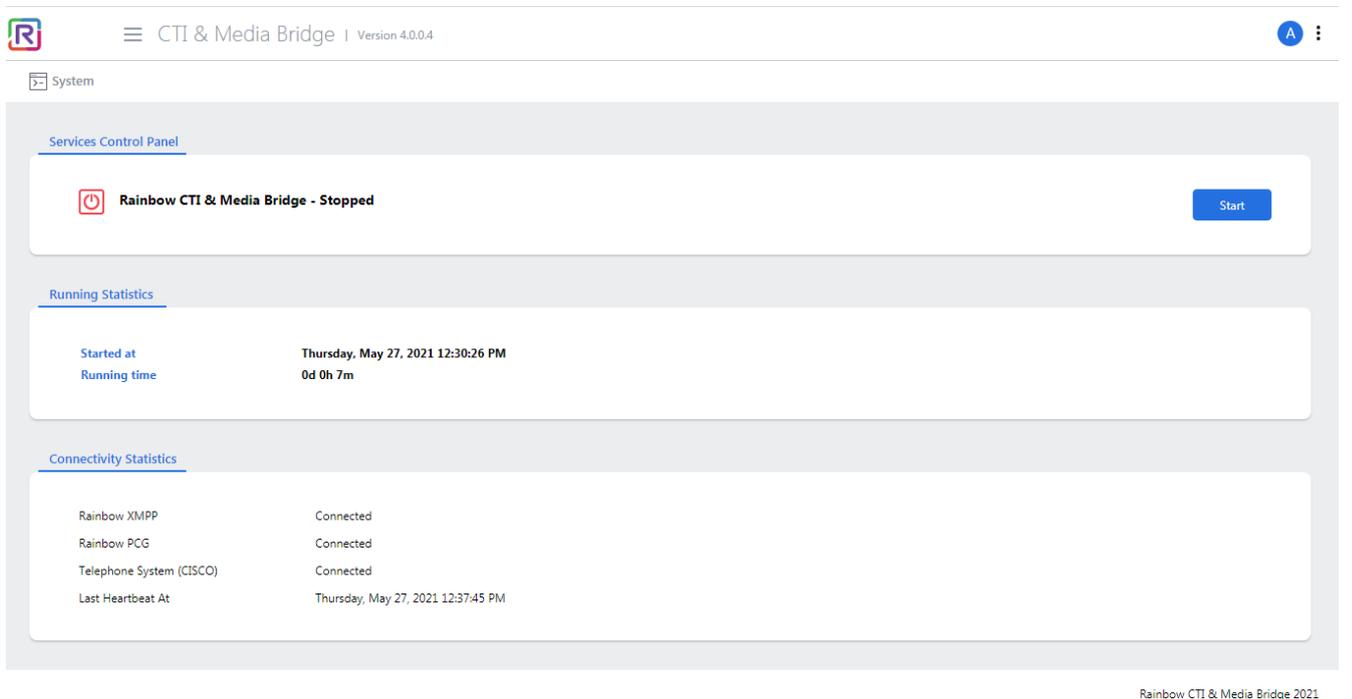
Screenshot-Slider Control with Left Hand Panel Hidden

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

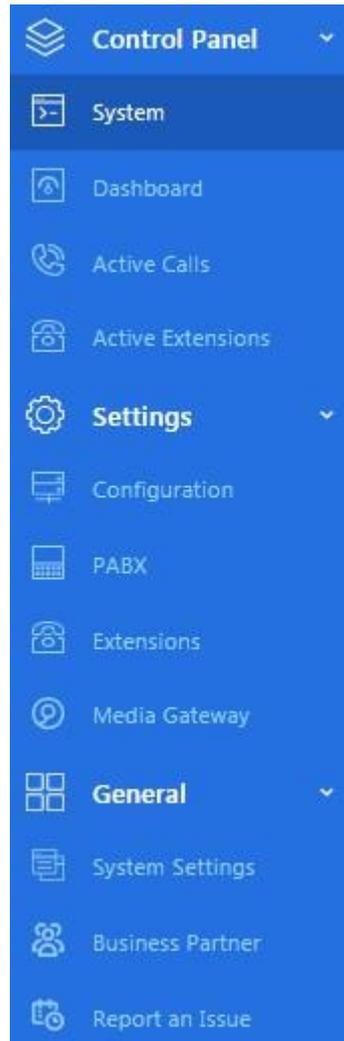
You can also click on  icon next to application title as highlighted below:



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

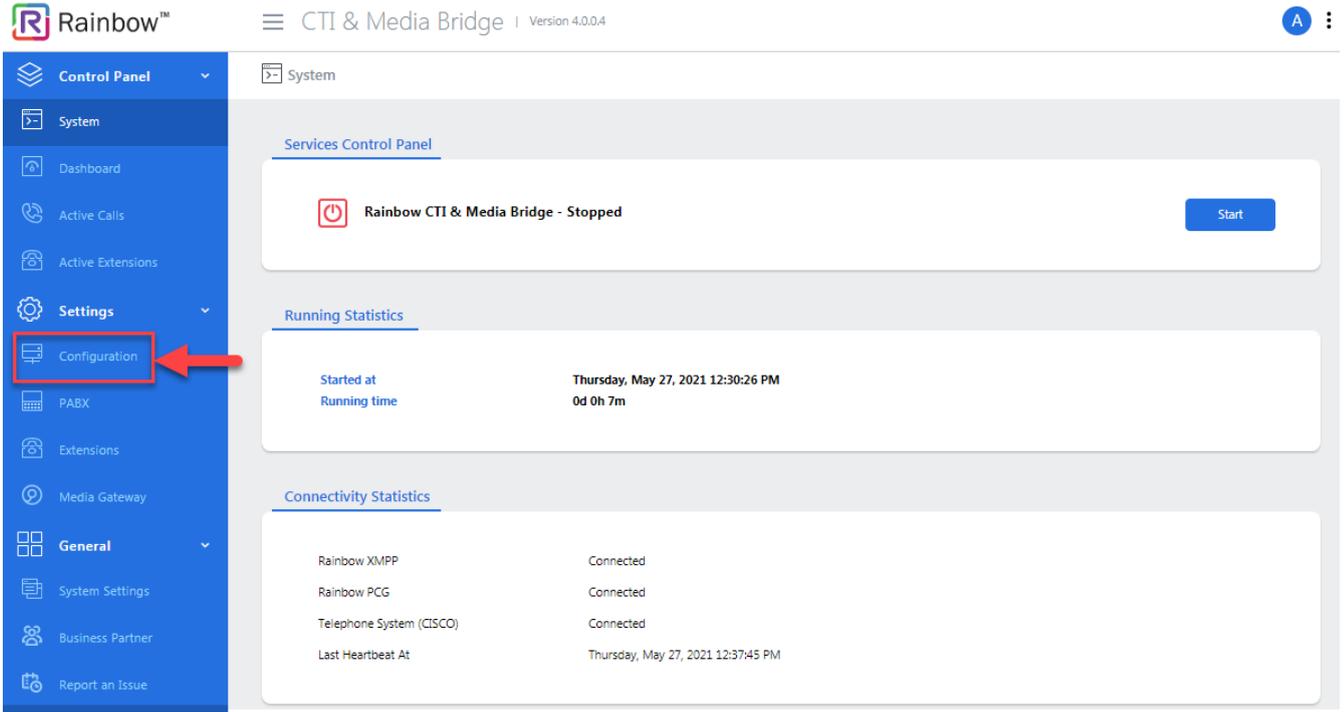
Once you have provided required information in each section, please click on Update/Save button for that section.

Note: The administration application can also be opened by entering a URL i.e. <http://<IP address>/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.



The screenshot shows the Rainbow CTI & Media Bridge administration interface. The left sidebar contains a menu with the following items: Control Panel, System, Dashboard, Active Calls, Active Extensions, Settings (expanded), Configuration (highlighted with a red box and arrow), PABX, Extensions, Media Gateway, General (expanded), System Settings, Business Partner, and Report an Issue. The main content area displays the 'Services Control Panel' with a 'Rainbow CTI & Media Bridge - Stopped' status and a 'Start' button. Below this, the 'Running Statistics' section shows the system started on Thursday, May 27, 2021 at 12:30:26 PM and has been running for 0d 0h 7m. The 'Connectivity Statistics' section shows connections for Rainbow XMPP, Rainbow PCG, Telephone System (CISCO), and Last Heartbeat At.

Screenshot-System

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

CTI & Media Bridge | Version 4.0.0.4

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](#)

Screenshot-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

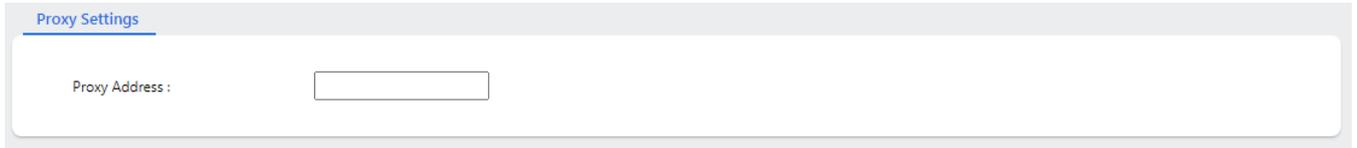
Domain *

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.



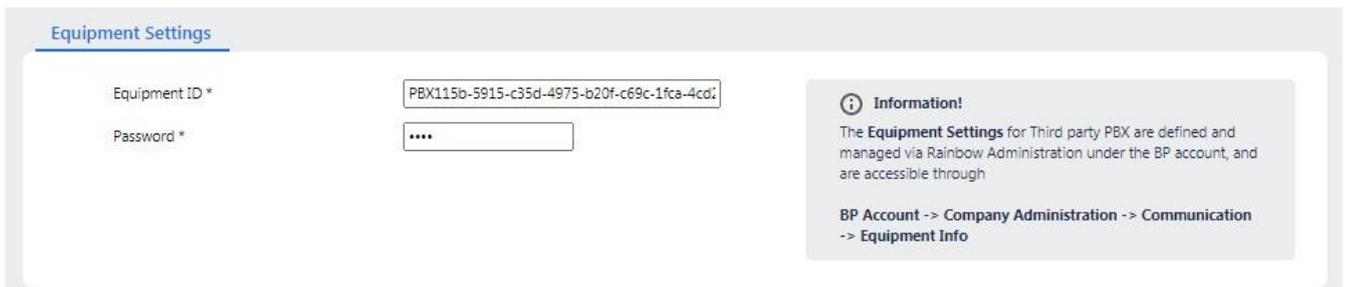
The screenshot shows a web form titled "Proxy Settings". It contains a single input field labeled "Proxy Address :". The input field is currently empty.

Screenshot- Proxy Settings

3.2.3 Equipment Settings

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

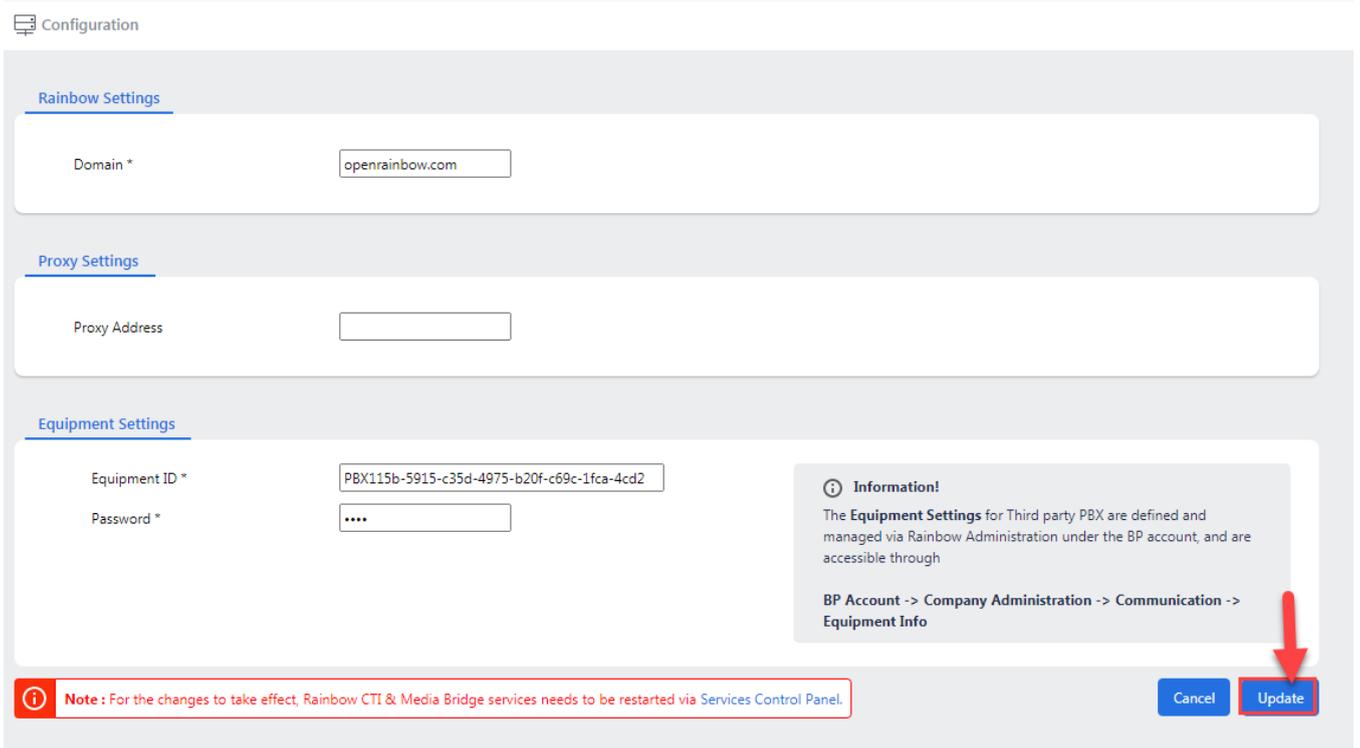
Please enter the provided information accordingly, as shown below for illustration.



The screenshot shows a web form titled "Equipment Settings". It contains two input fields: "Equipment ID *" with the value "PBX115b-5915-c35d-4975-b20f-c69c-1fca-4cd:" and "Password *" with four asterisks. To the right of the input fields is an "Information!" box containing the following text: "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".

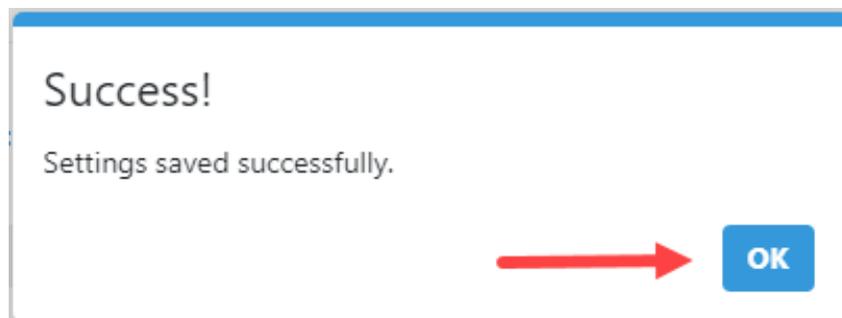
Screenshot-PBX Settings

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



Screenshot-Configuration

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



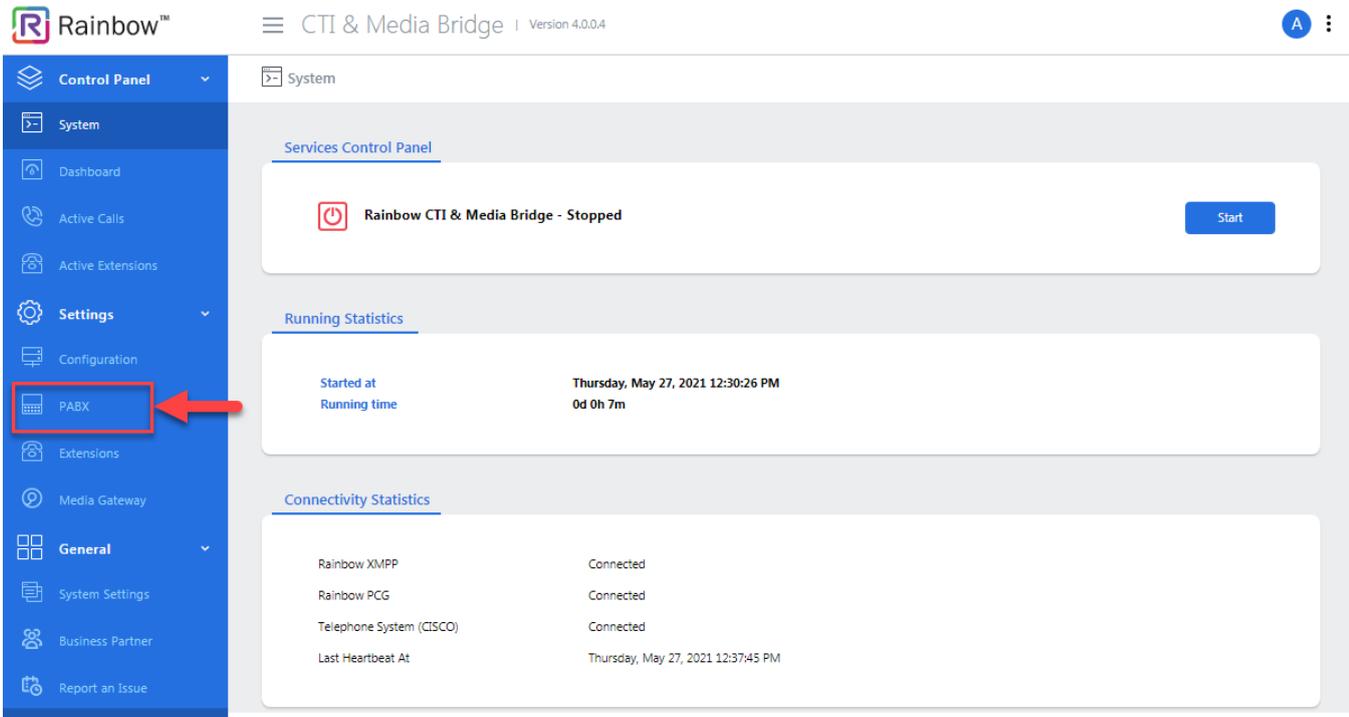
Screenshot-Message from application

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 CISCO 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.



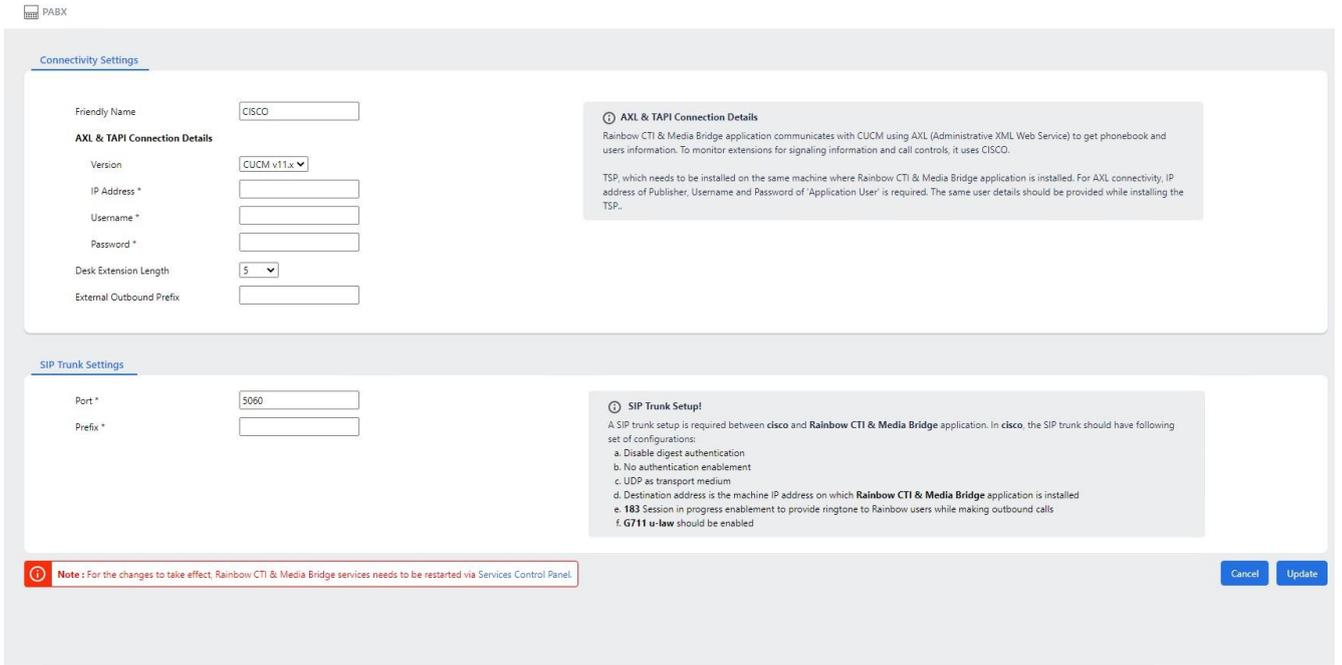
The screenshot displays the Rainbow CTI & Media Bridge administration interface. The left sidebar menu is expanded, and the 'PABX' tab is highlighted with a red box and a red arrow. The main content area shows the 'System' page with the following sections:

- Services Control Panel:** A card showing 'Rainbow CTI & Media Bridge - Stopped' with a 'Start' button.
- Running Statistics:** A card showing 'Started at Running time' as 'Thursday, May 27, 2021 12:30:26 PM' and '0d 0h 7m'.
- Connectivity Statistics:** A table showing the status of various services:

Service	Status
Rainbow XMPP	Connected
Rainbow PCG	Connected
Telephone System (CISCO)	Connected
Last Heartbeat At	Thursday, May 27, 2021 12:37:45 PM

Screenshot- System

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



The screenshot displays the 'PABX' administration interface. It is divided into two main sections: 'Connectivity Settings' and 'SIP Trunk Settings'.

Connectivity Settings:

- Friendly Name:** A text field containing 'CISCO'.
- AXL & TAPI Connection Details:**
 - Version:** A dropdown menu set to 'CUCM v11x'.
 - IP Address *:** An empty text field.
 - Username *:** An empty text field.
 - Password *:** An empty text field.
 - Desk Extension Length:** A dropdown menu set to '5'.
 - External Outbound Prefix:** An empty text field.

SIP Trunk Settings:

- Port *:** A text field containing '5060'.
- Prefix *:** An empty text field.

AXL & TAPI Connection Details Note: Rainbow CTI & Media Bridge application communicates with CUCM using AXL (Administrative XML Web Service) to get phonebook and users information. To monitor extensions for signaling information and call controls, it uses CISCO. TSP, which needs to be installed on the same machine where Rainbow CTI & Media Bridge application is installed. For AXL connectivity, IP address of Publisher, Username and Password of 'Application User' is required. The same user details should be provided while installing the TSP.

SIP Trunk Setup! Note: A SIP trunk setup is required between cisco and Rainbow CTI & Media Bridge application. In cisco, 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

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

Buttons: 'Cancel' and 'Update'.

Screenshot-CISCO PABX Settings

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 'CISCO' but it can be changed.

Version & IP Address:

Rainbow CTI and Media Bridge connects with CISCO for different versions. Please select the appropriate version of CUCM you are using in your organization and provide its IP address.

Username and Password:

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

Desk Extension Length

Enter the number of characters that an extension will comprise of in these 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

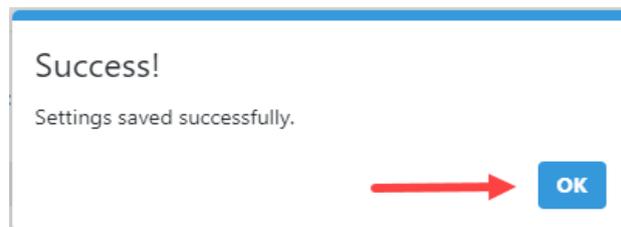
Enter the prefix that must be affixed with extension when used for external outbound calls.

3.3.2 SIP Trunk Settings

Provide configurations for SIP Trunk setup in this sections that are required for connectivity between CISCO 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.

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

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

3.4 Media Gateway

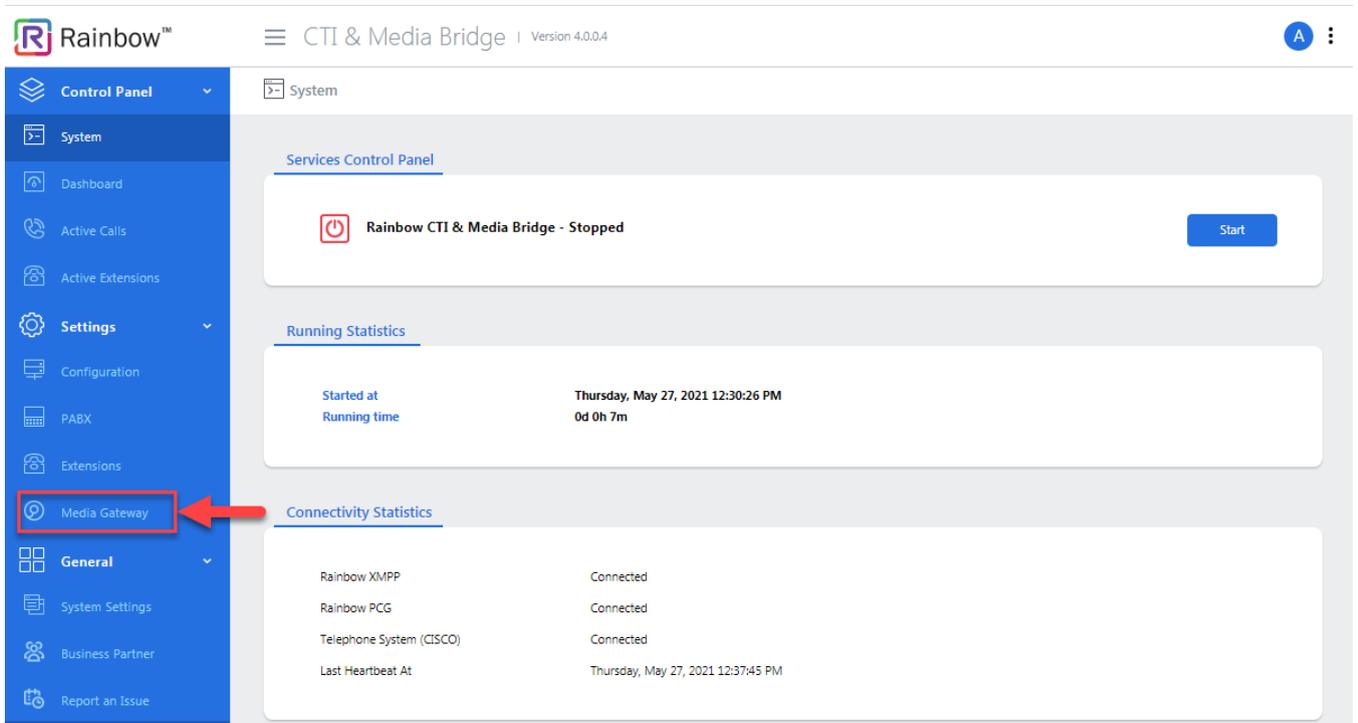
Rainbow CTI and Media Bridge works as a middleware between Rainbow and ALE WebRTC Gateway so that users (with CTI capability) can receive and take their desk extension (PABX) calls onto their rainbow applications.

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.



Connectivity Statistics	
Rainbow XMPP	Connected
Rainbow PCG	Connected
Telephone System (CISCO)	Connected
Last Heartbeat At	Thursday, May 27, 2021 12:37:45 PM

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**.
`mpcheck mpstatus`

Remote Extensions Numbering Plan

Prefix

Same Prefix configured in PABX

Other Number

Extension Pattern

Desk extension

A random extension of length

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. The number pattern for these extensions should not conflict with the numbering plan already defined in **cisco**, else the calls will not be transferred to **Rainbow CTI & Media Bridge** application via SIP Trunk.

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 **cisco** 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.

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.

Screenshot - Media Gateway

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 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**.
`mpcheck mpstatus`

Screenshot - Media Gateway Settings

3.4.2 Remote Extensions Numbering Plan

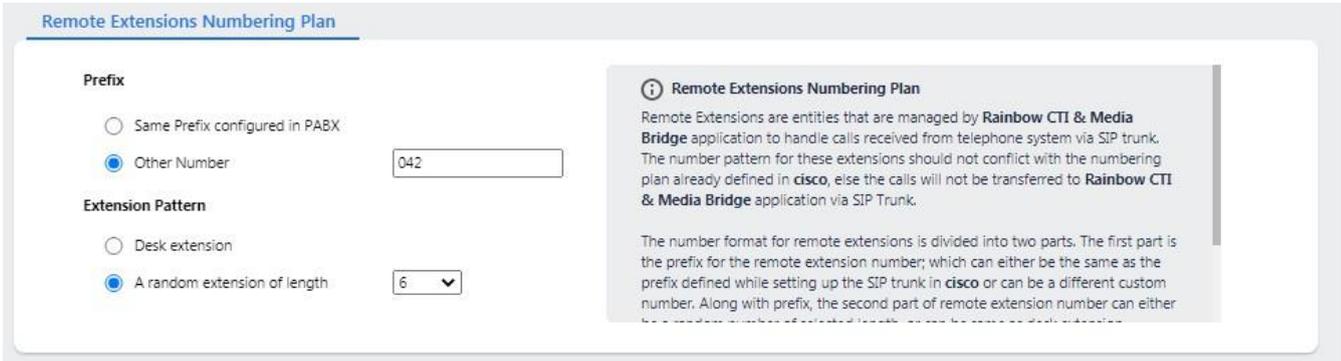
Remote Extensions are entities that are managed by Rainbow CTI & Media Bridge application to handle calls received from telephone system via SIP trunk. Remote Extension Prefix is required so that internal extensions do not conflict with PBX existing dial plan).

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

Remote Extensions Numbering Plan

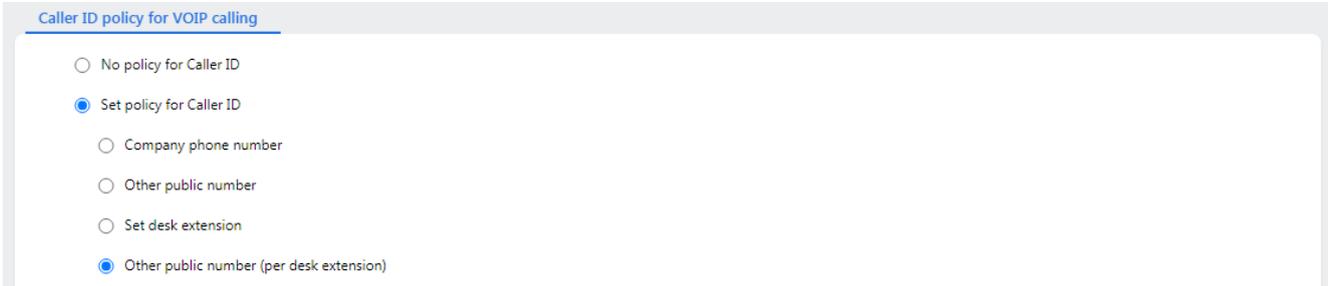
Remote Extensions are entities that are managed by **Rainbow CTI & Media Bridge** application to handle calls received from telephone system via SIP trunk. The number pattern for these extensions should not conflict with the numbering plan already defined in **cisco**, else the calls will not be transferred to **Rainbow CTI & Media Bridge** application via SIP Trunk.

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 **cisco** or can be a different custom number. Along with prefix, the second part of remote extension number can either

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**.

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.

```
mpcheck mpstatus
```

Remote Extensions Numbering Plan

Prefix

Same Prefix configured in PABX

Other Number

Extension Pattern

Desk extension

A random extension of length

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. The number pattern for these extensions should not conflict with the numbering plan already defined in cisco, else the calls will not be transferred to Rainbow CTI & Media Bridge application via SIP Trunk.

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 cisco 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.

Caller ID policy for VOIP calling

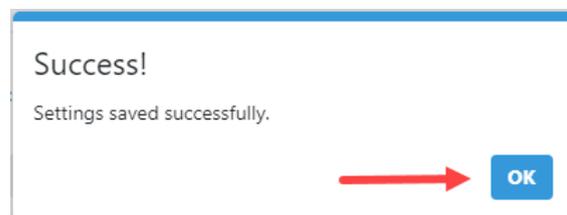
No policy for Caller ID

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.

Cancel Update

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

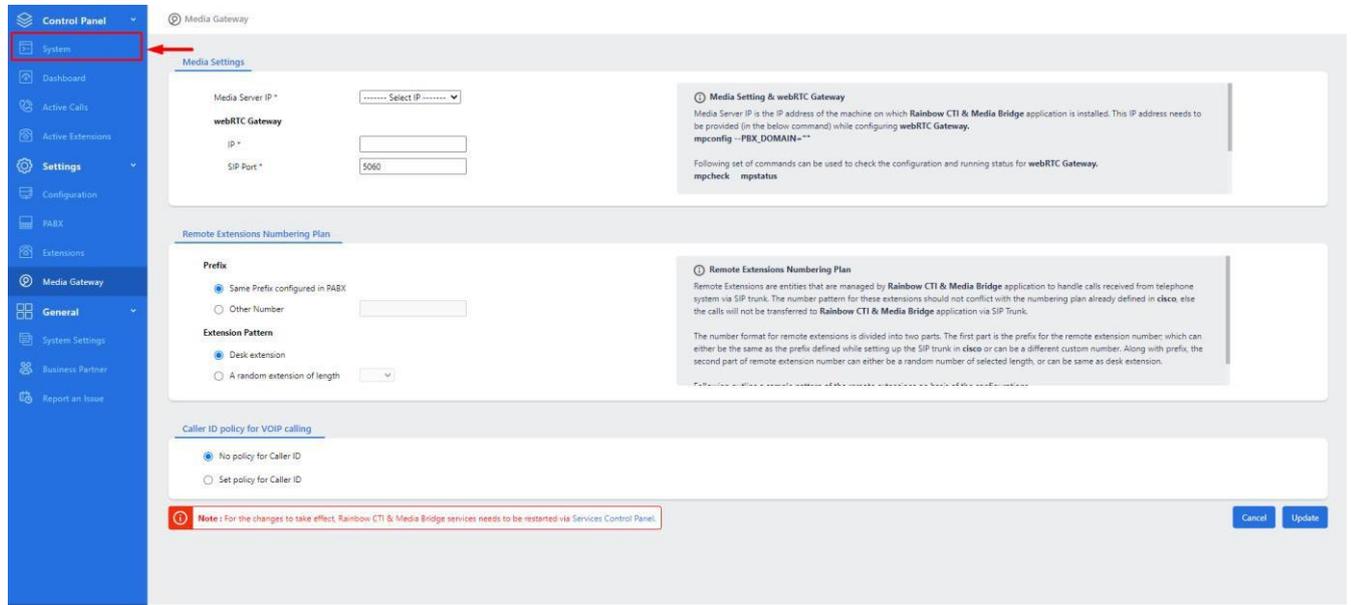


Screenshot-Message from Application

3.5 Starting and Stopping Rainbow CTI & Media Bridge Service

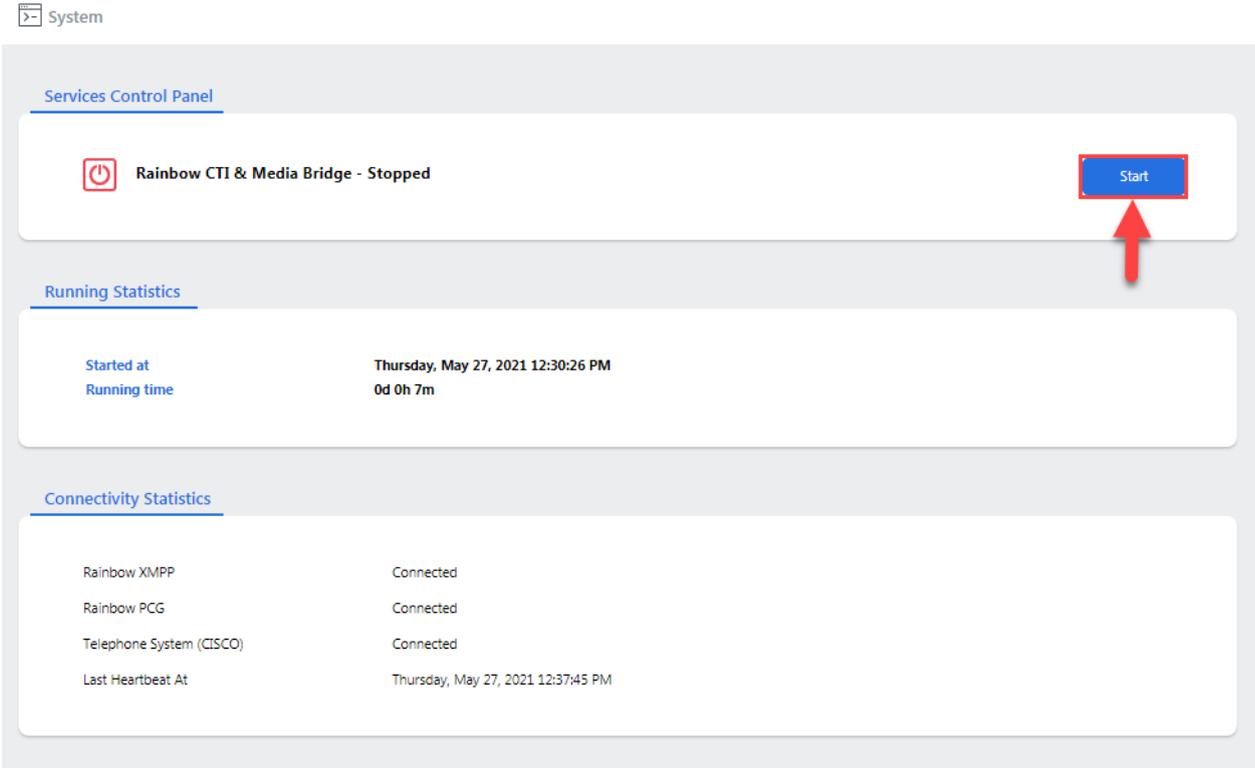
Once the configuration is updated, Rainbow CTI & Media Bridge Service can be started to establish a connection with Rainbow Server.

Go to system screen by clicking on “**System**”, as shown below:



Screenshot - Media Gateway

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



The screenshot shows the 'System' interface with a 'Services Control Panel' section. The service 'Rainbow CTI & Media Bridge' is currently 'Stopped', indicated by a red power icon. A blue 'Start' button is highlighted with a red arrow. Below this, the 'Running Statistics' section shows the service started at 'Thursday, May 27, 2021 12:30:26 PM' with a running time of '0d 0h 7m'. The 'Connectivity Statistics' section shows the following connections:

Service	Status
Rainbow XMPP	Connected
Rainbow PCG	Connected
Telephone System (CISCO)	Connected
Last Heartbeat At	Thursday, May 27, 2021 12:37:45 PM

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	Thursday, May 27, 2021 5:02:51 PM
Running time	0d 0h 0m

Connectivity Statistics

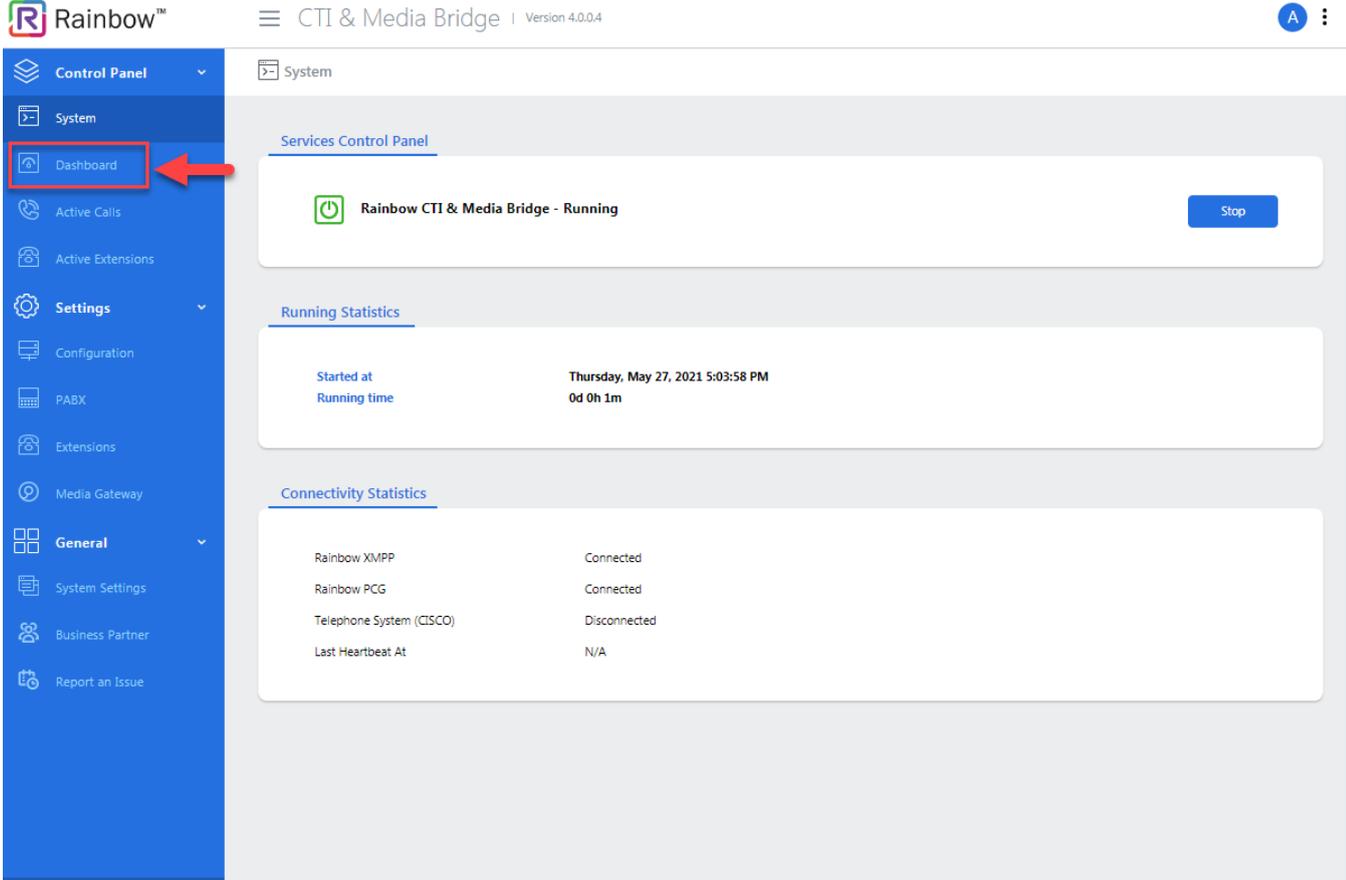
Rainbow XMPP	
Rainbow PCG	
Telephone System (CISCO)	
Last Heartbeat At	N/A

Screenshot- System

4 Calls & 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.



The screenshot displays the Rainbow CTI & Media Bridge administration interface. The left sidebar menu is expanded, and the 'Dashboard' option is highlighted with a red box and a red arrow. The main content area is titled 'System' and contains three sections: 'Services Control Panel', 'Running Statistics', and 'Connectivity Statistics'.

Services Control Panel

Rainbow CTI & Media Bridge - Running Stop

Running Statistics

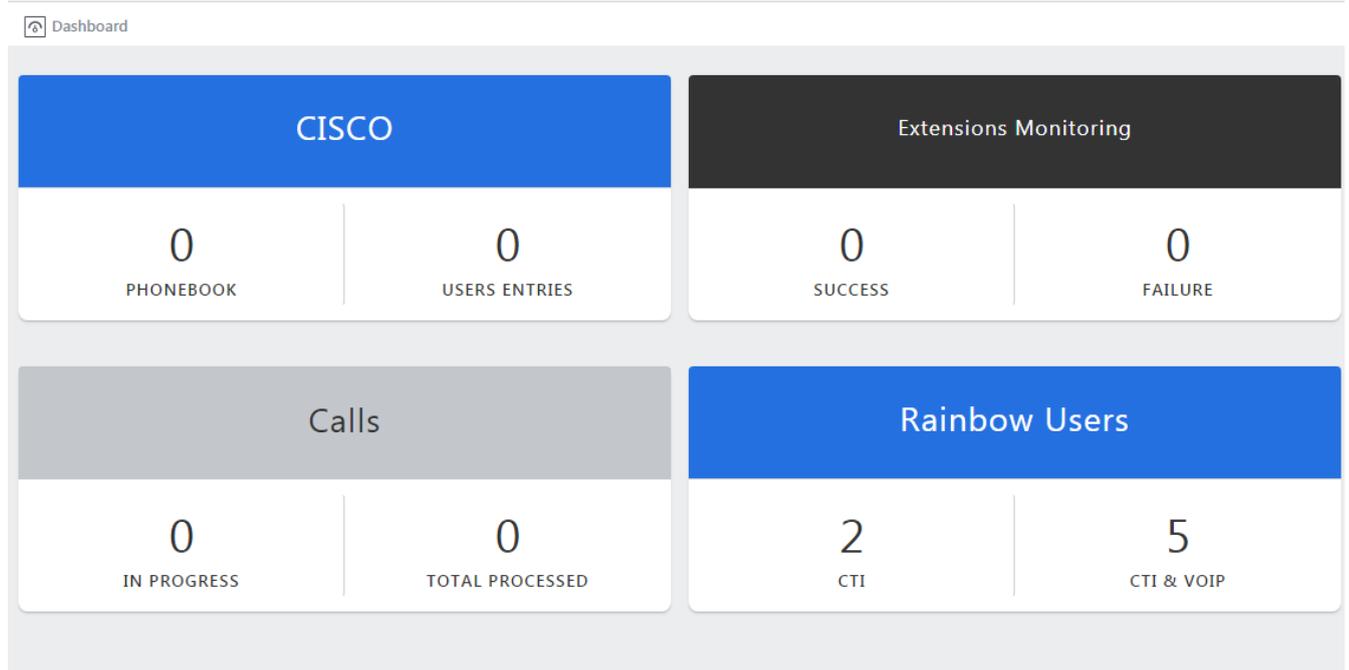
Started at **Thursday, May 27, 2021 5:03:58 PM**
Running time **0d 0h 1m**

Connectivity Statistics

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

Screenshot -System

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



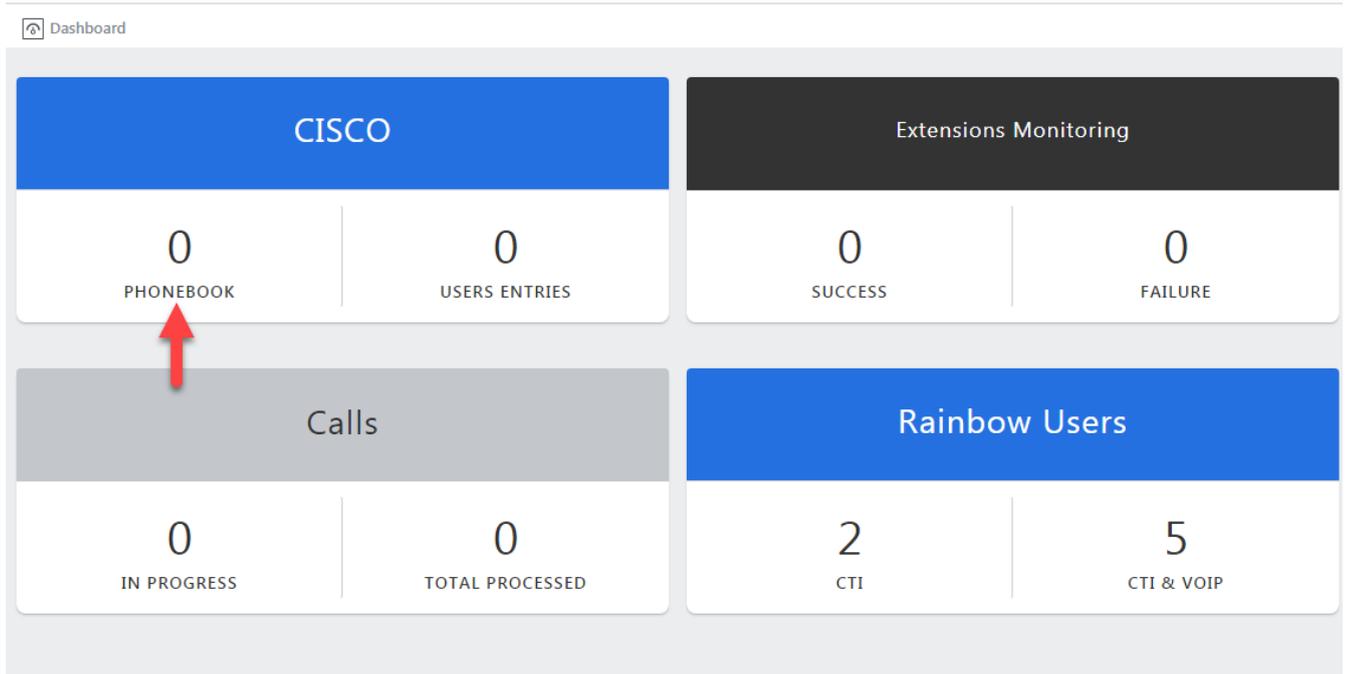
Screenshot-Dashboard

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

4.2 Extensions & User Entries

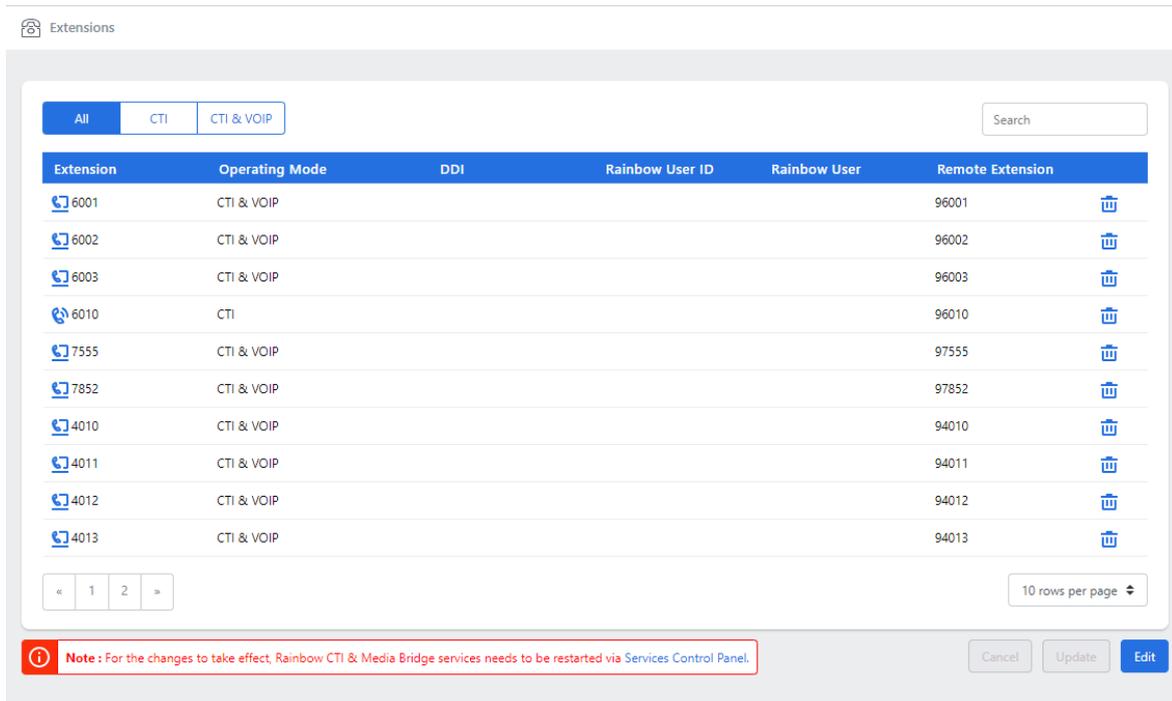
Rainbow CTI & Media Bridge retrieves the list of total extensions/users entries available in CISCO PBX and sends that information to Rainbow Server. This information is then made available in Rainbow Enterprise configuration.

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



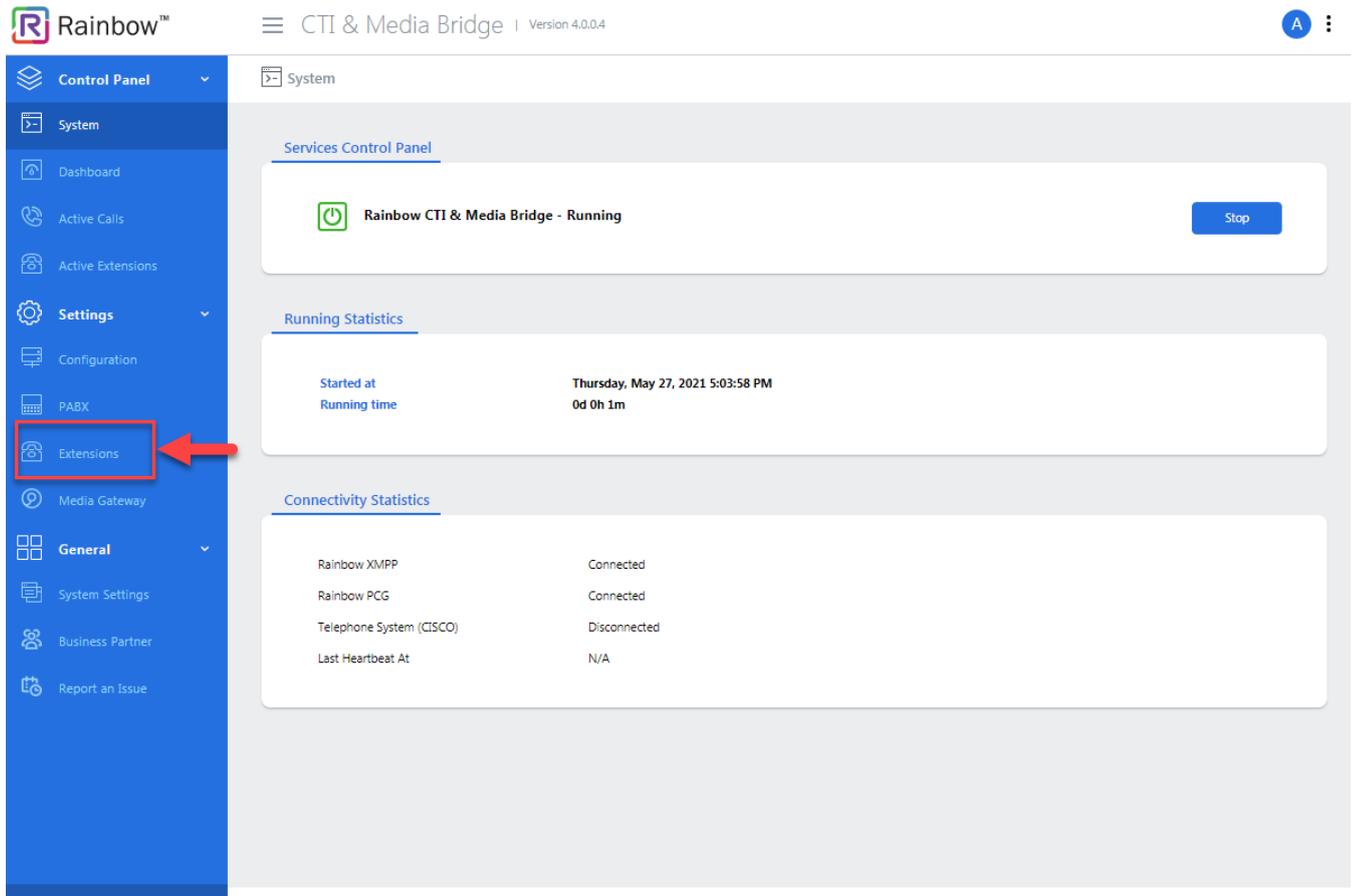
Screenshot-Dashboard

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



Screenshot- Extensions

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



Screenshot- System

You will be presented with the screen, as shown below

Extensions

All CTI CTI & VOIP

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
 6001	CTI & VOIP				96001 
 6002	CTI & VOIP				96002 
 6003	CTI & VOIP				96003 
 6010	CTI				96010 
 7555	CTI & VOIP				97555 
 7852	CTI & VOIP				97852 
 4010	CTI & VOIP				94010 
 4011	CTI & VOIP				94011 
 4012	CTI & VOIP				94012 
 4013	CTI & VOIP				94013 

< 1 2 >

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

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

All CTI CTI & VOIP

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP				96001
6002	CTI & VOIP				96002
6003	CTI & VOIP				96003
6010	CTI				96010
7555	CTI & VOIP				97555
7852	CTI & VOIP				97852
4010	CTI & VOIP				94010
4011	CTI & VOIP				94011
4012	CTI & VOIP				94012
4013	CTI & VOIP				94013

< 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**

Screenshot - Edit Button on Extensions Page

Extensions

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP	<input type="text"/>			96001
6002	CTI & VOIP	<input type="text"/>			96002
6003	CTI & VOIP	<input type="text"/>			96003
6010	CTI & VOIP	<input type="text"/>			96010
7555	CTI & VOIP	<input type="text"/>			97555
7852	CTI & VOIP	<input type="text"/>			97852
4010	CTI & VOIP	<input type="text"/>			94010
4011	CTI & VOIP	<input type="text"/>			94011
4012	CTI & VOIP	<input type="text"/>			94012
4013	CTI & VOIP	<input type="text"/>			94013

< 1 2 > 10 rows per page

Screenshot - Updating Operating Mode of an Extension

Extensions

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP	<input type="text"/>			96001
6002	CTI & VOIP	<input type="text"/>			96002
6003	CTI & VOIP	<input type="text"/>			96003
6010	CTI	<input type="text"/>			96010
7555	CTI & VOIP	<input type="text"/>			97555
7852	CTI & VOIP	<input type="text"/>			97852
4010	CTI & VOIP	<input type="text"/>			94010
4011	CTI & VOIP	<input type="text"/>			94011
4012	CTI & VOIP	<input type="text"/>			94012
4013	CTI & VOIP	<input type="text"/>			94013

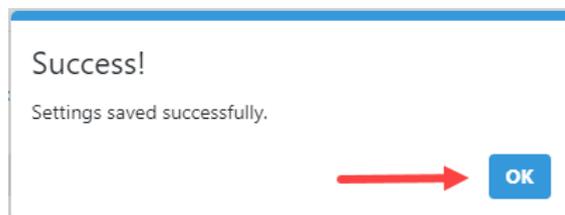
« 1 2 » 10 rows per page

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

Cancel Update Edit

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

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP	<input type="text"/>			96001
6002	CTI & VOIP	<input type="text"/>			96002
6003	CTI & VOIP	2000 			96003
6010	CTI	<input type="text"/>			96010
7555	CTI & VOIP	<input type="text"/>			97555
7852	CTI & VOIP	<input type="text"/>			97852
4010	CTI & VOIP	<input type="text"/>			94010
4011	CTI & VOIP	<input type="text"/>			94011
4012	CTI & VOIP	<input type="text"/>			94012
4013	CTI & VOIP	<input type="text"/>			94013

< 1 2 > 10 rows per page

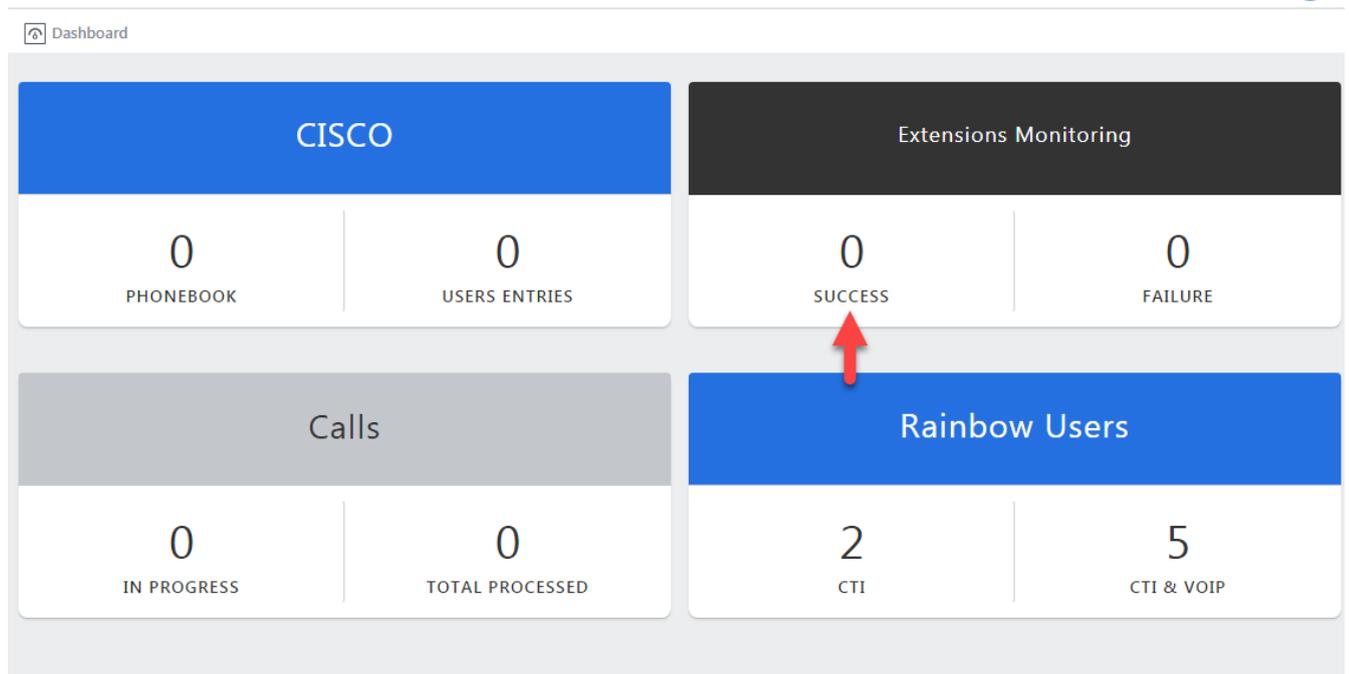
Note: For the changes to take effect, Rainbow CTI & Media Bridge services needs to be restarted via [Services Control Panel](#). Cancel Update Edit

Screenshot- DDI Update in Extensions

4.3 Monitored Extensions

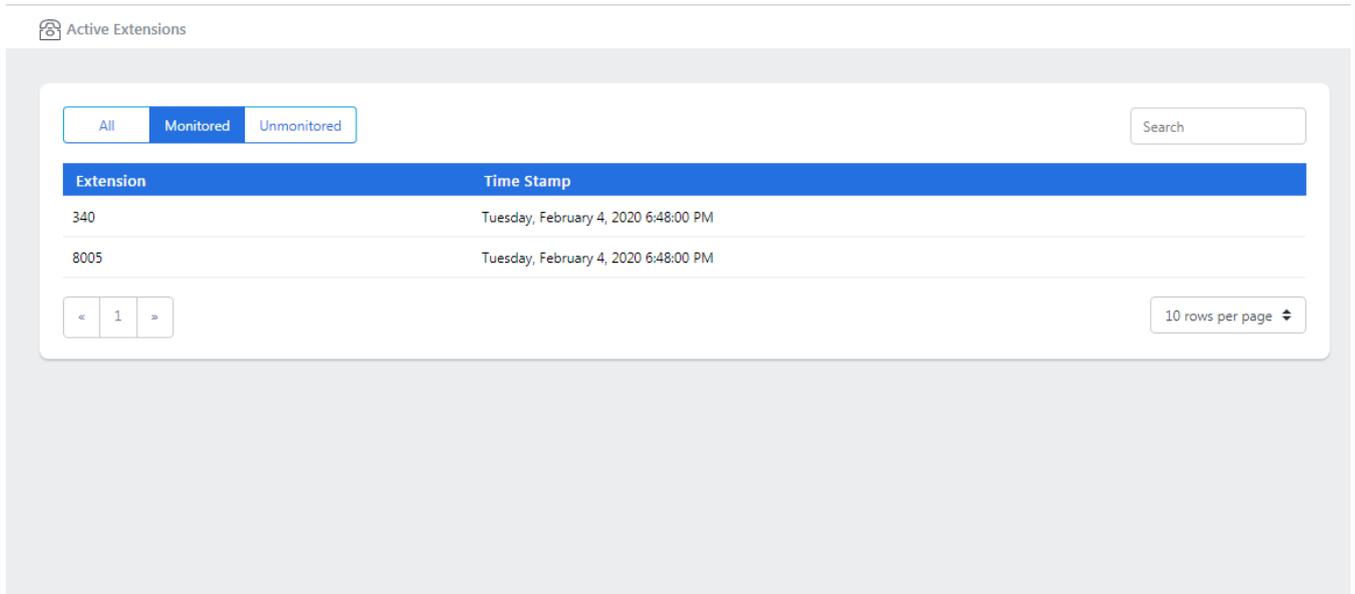
Once necessary configuration is done in Rainbow Enterprise configuration, the information of telephone extensions that need to be monitored is sent to CTI & Media Bridge. The “Monitored Extensions” shows the total number of extensions that are successfully registered for monitoring by CTI & Media Bridge.

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



Active Extensions

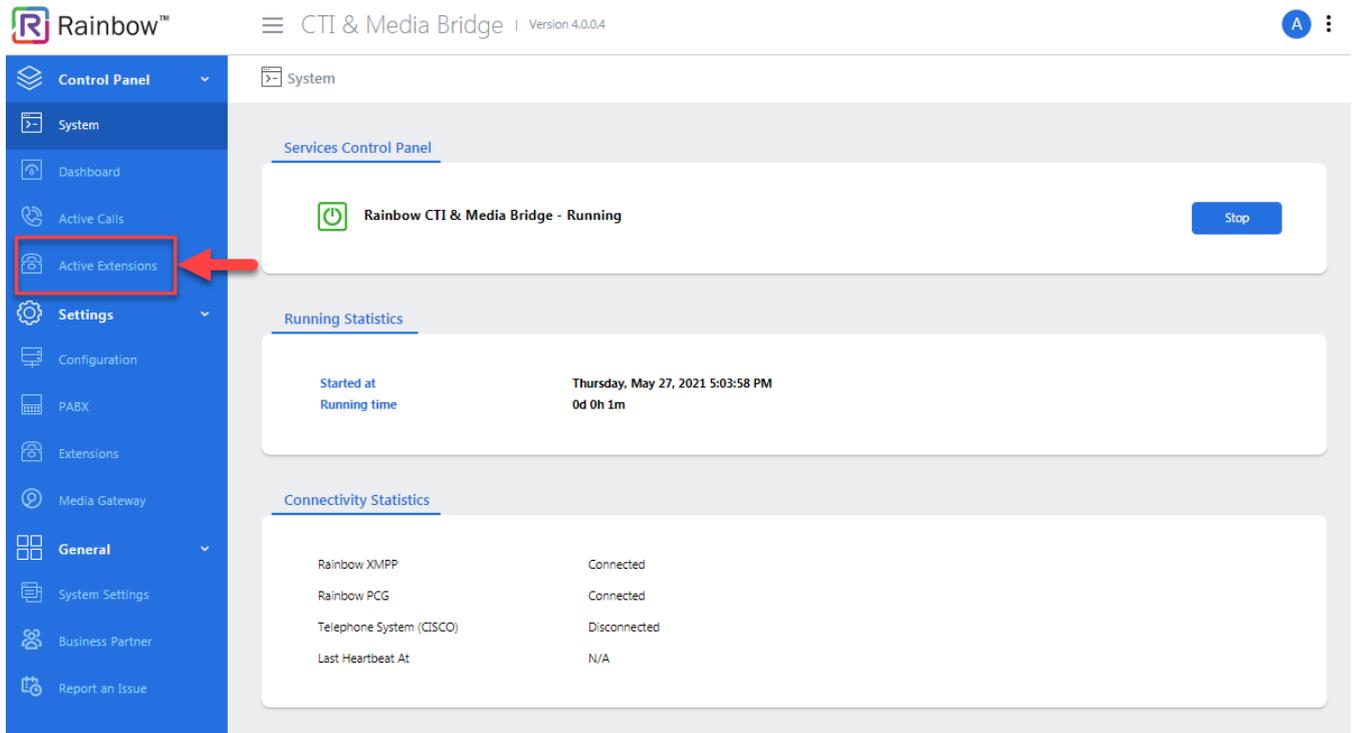
All Monitored Unmonitored Search

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

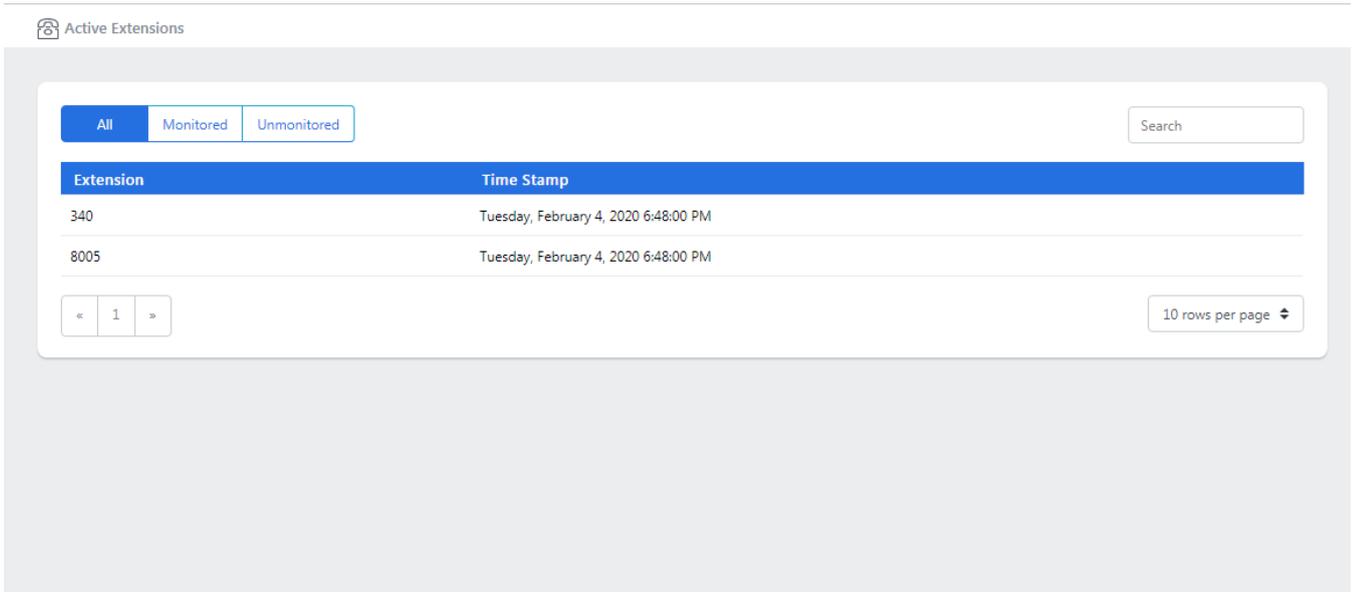
Screenshot-Monitored Extensions

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



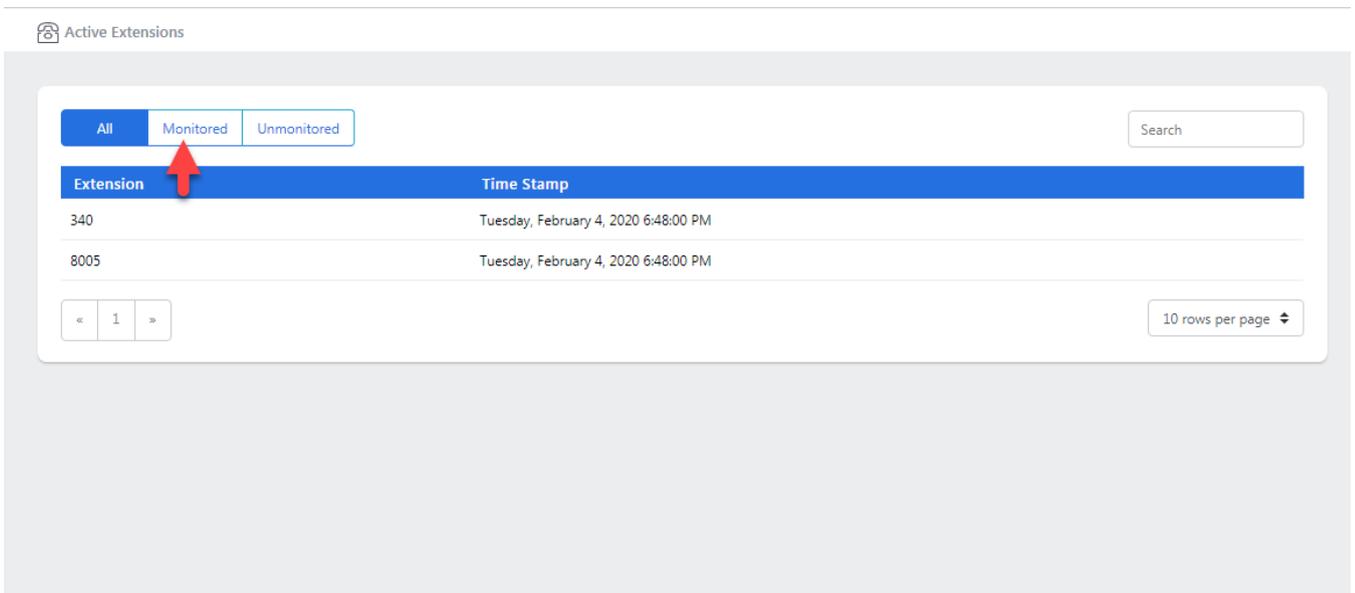
Screenshot-System

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



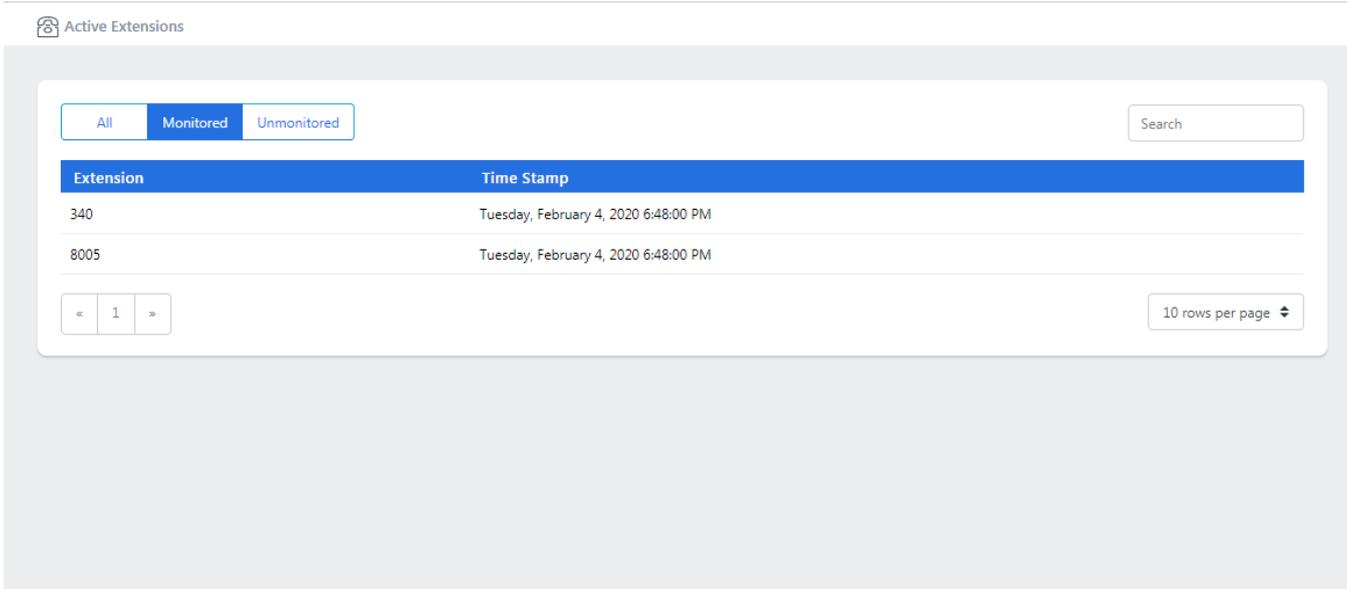
Screenshot-Active Extensions

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



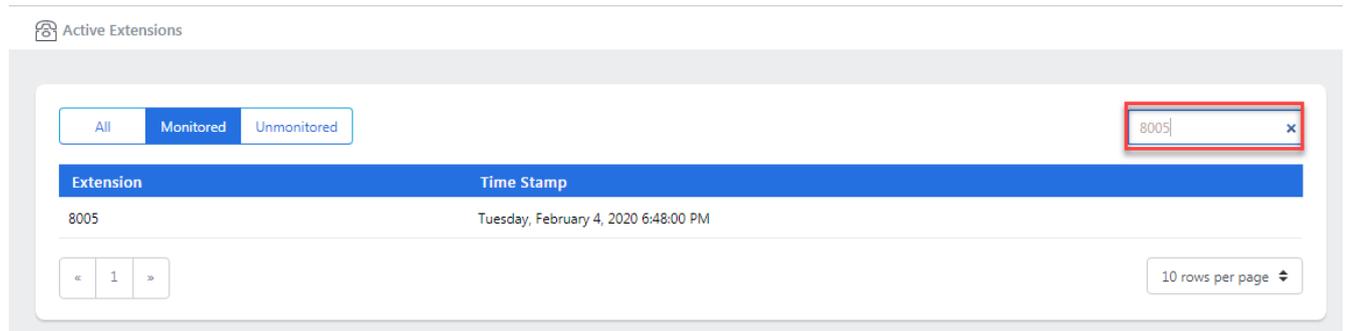
Screenshot-Active Extensions

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



Screenshot-Active Extensions

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

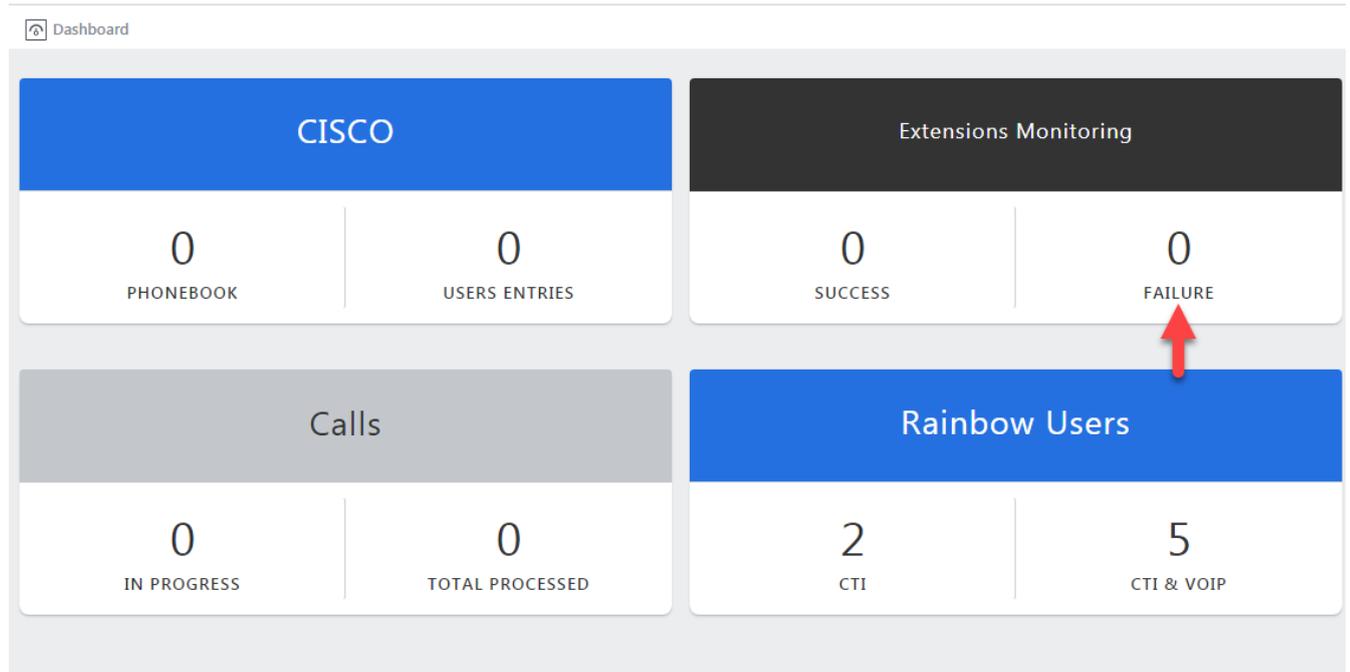


Screenshot-Active Extensions

4.4 Unsuccessful monitoring of extensions

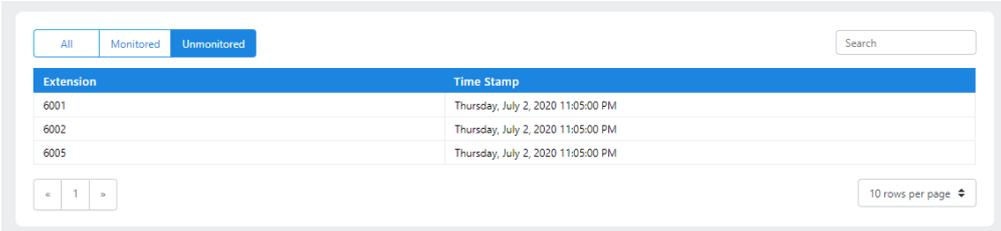
There could be many reasons due to which CTI & Media Bridge may not be able to monitor an extension. The reasons could range from missing configuration to a faulty phone cable.

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

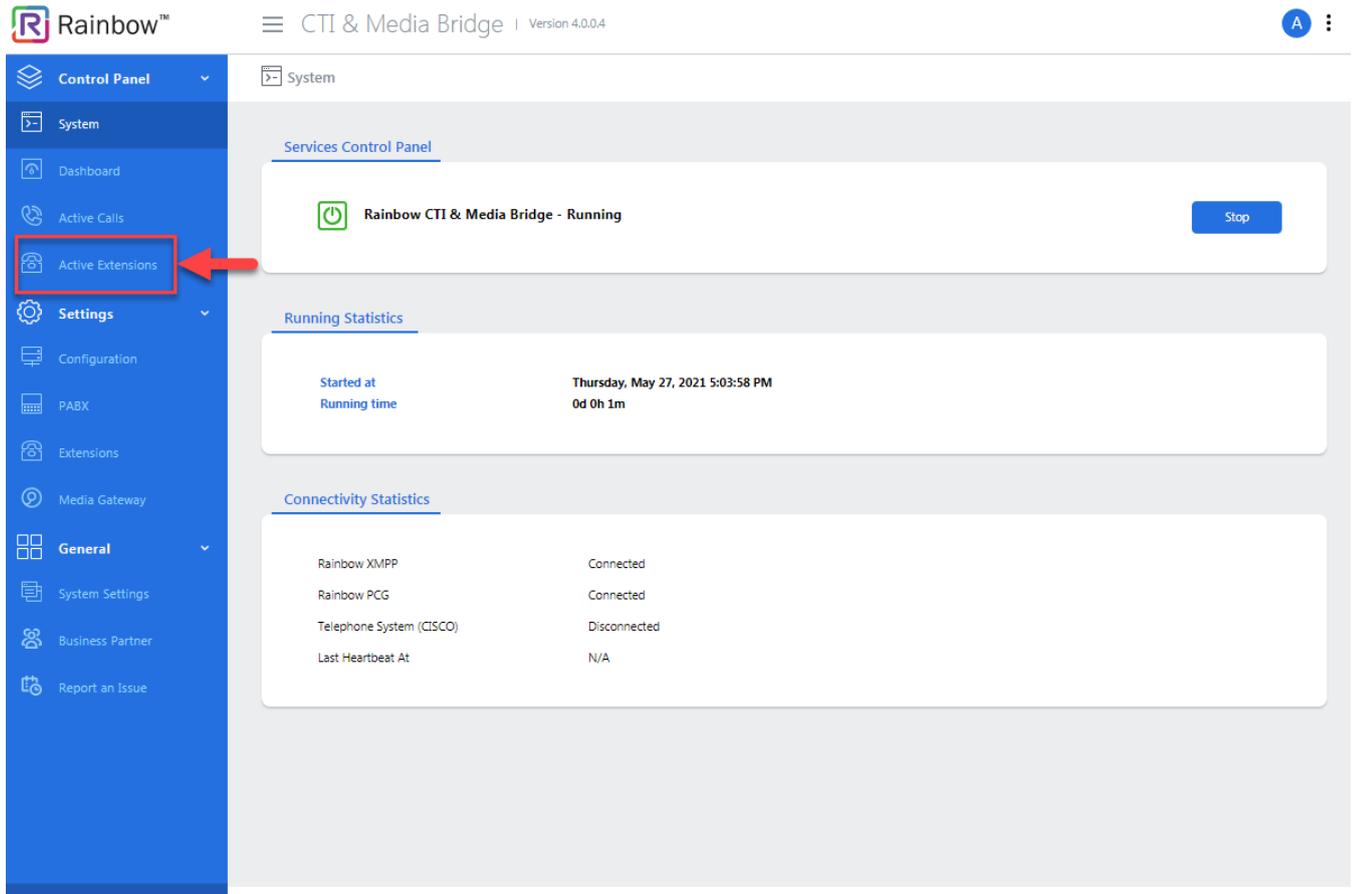
You will be presented with the screen, as shown below



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

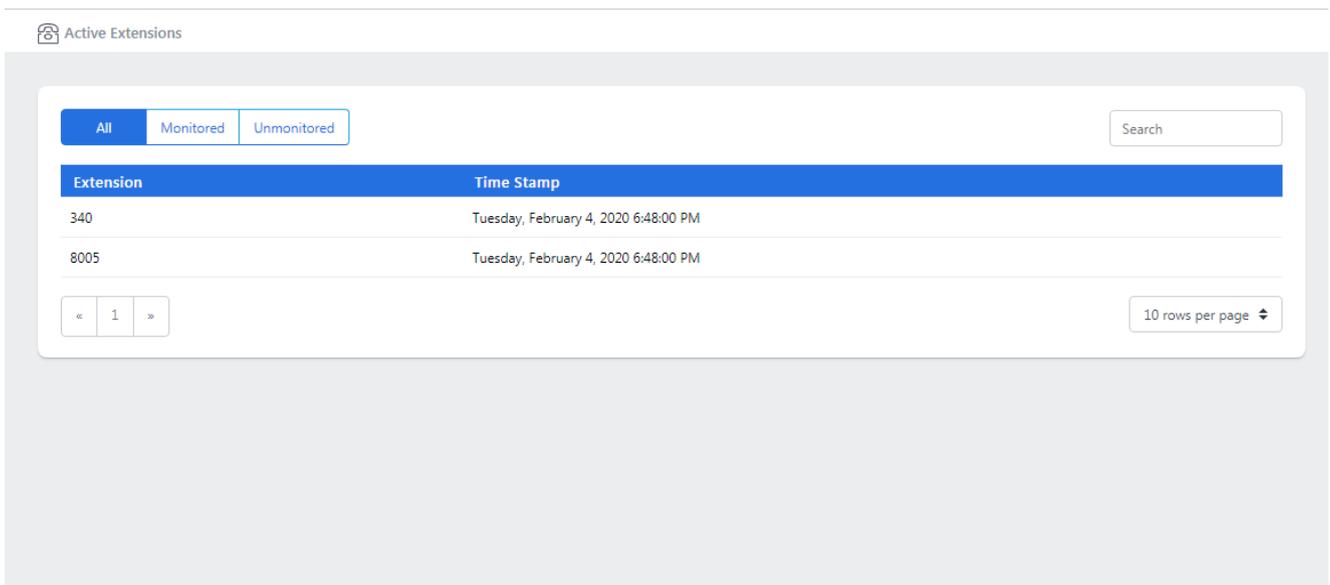
Screenshot-Unmonitored Extensions

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

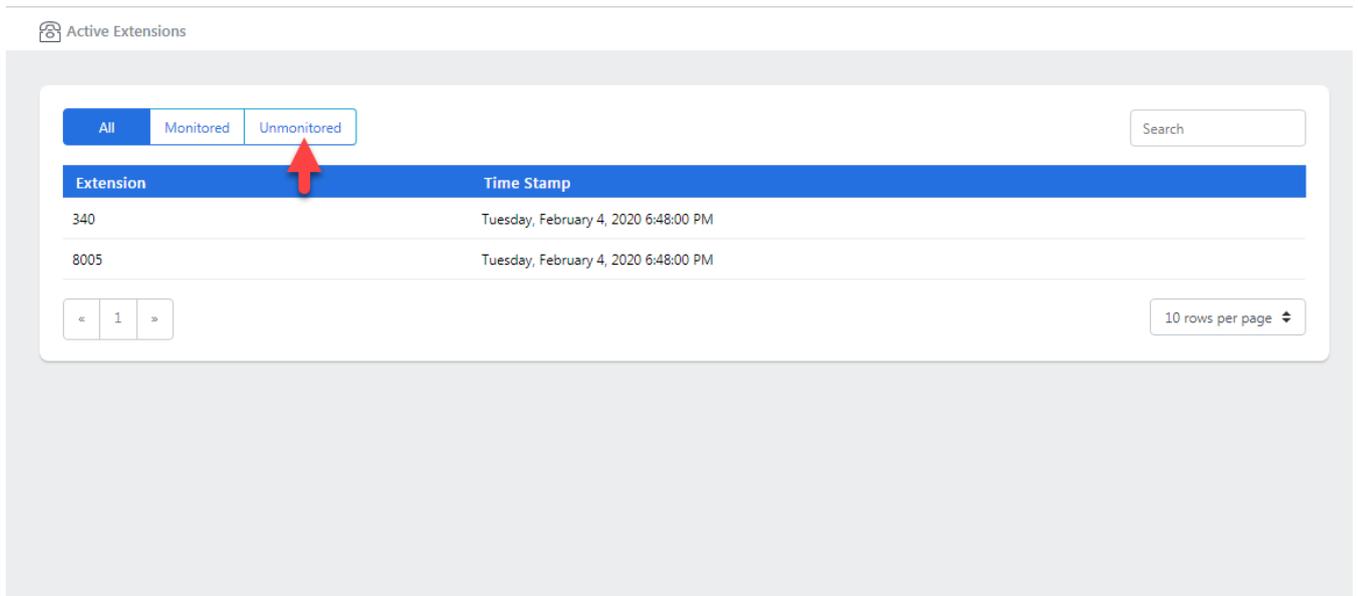


Screenshot-System

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

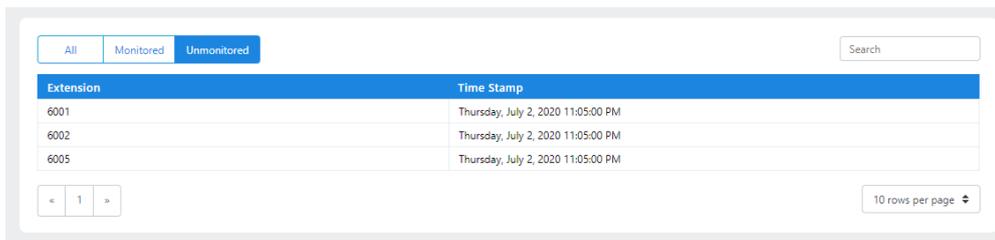


Click on the Unmonitored tab from top menu, as shown.



Screenshot-Active Extensions

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



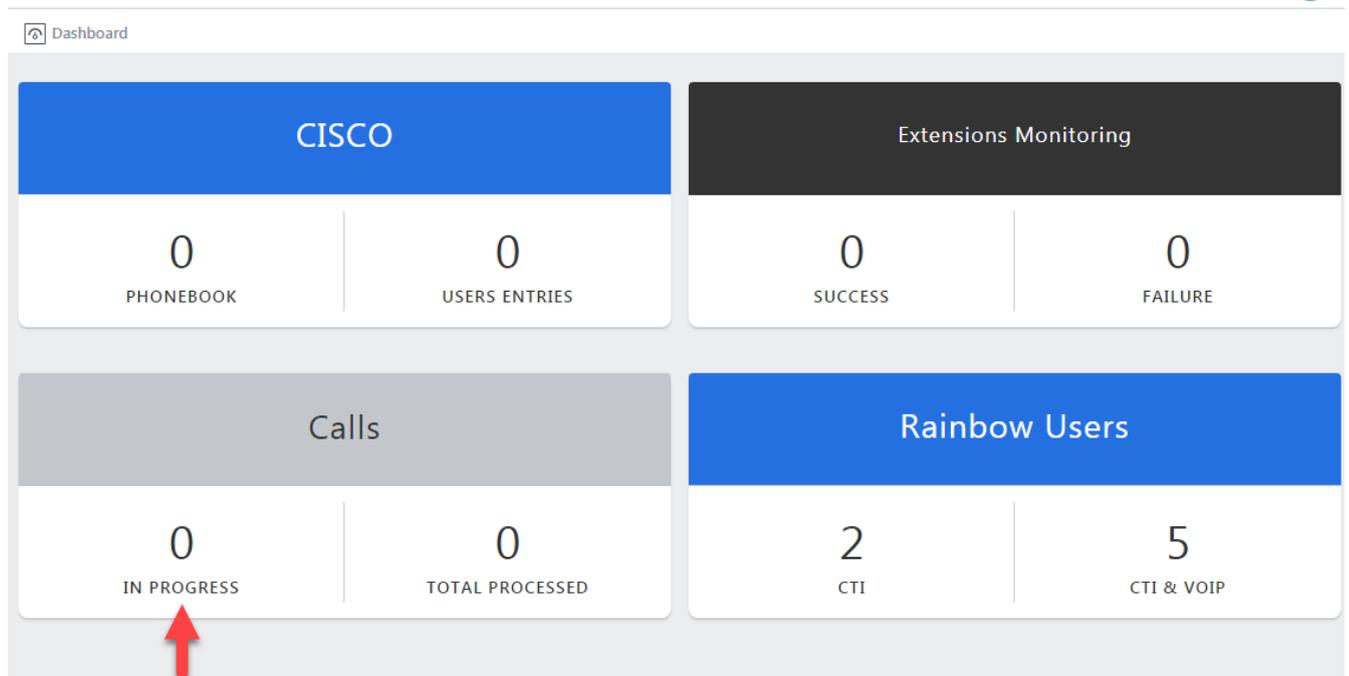
Screenshot-Unmonitored Extensions

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

4.5 Seeing active calls in the system

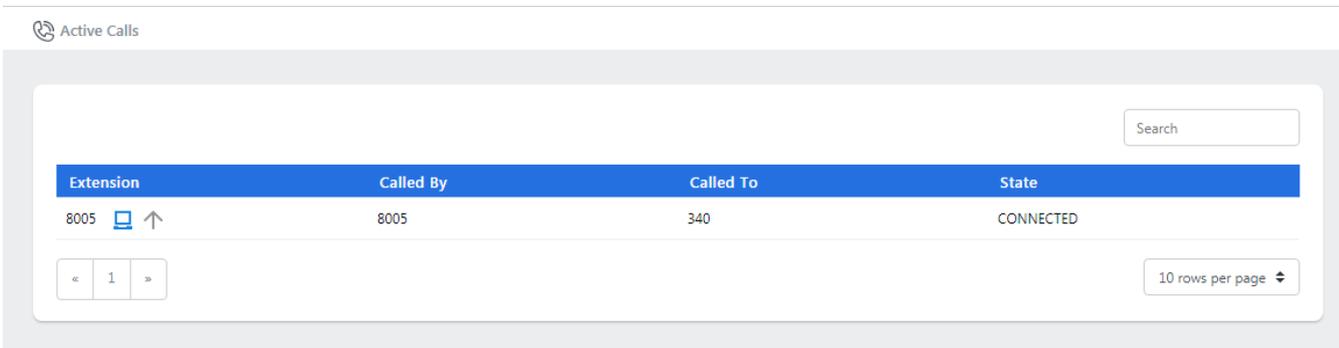
Rainbow CTI & Media Bridge provides a way to see the currently in-progress calls in the system. This may be needed during troubleshooting to see if certain calls are being recognized and correctly passed on to Rainbow Server.

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.



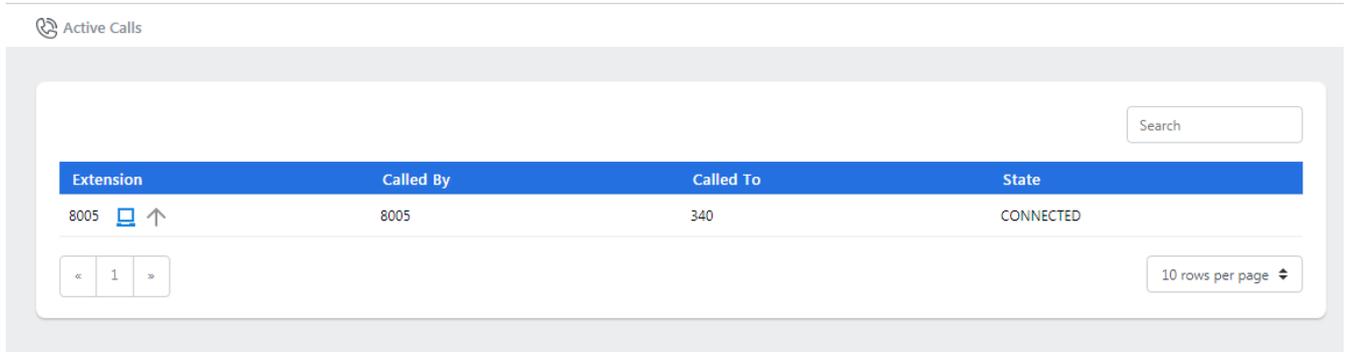
The screenshot shows the 'Active Calls' screen with a search bar and a table of active calls.

Extension	Called By	Called To	State
8005  	8005	340	CONNECTED

Navigation: < 1 > | 10 rows per page

Screenshot-Active Calls

Connected calls will be shown, as below.



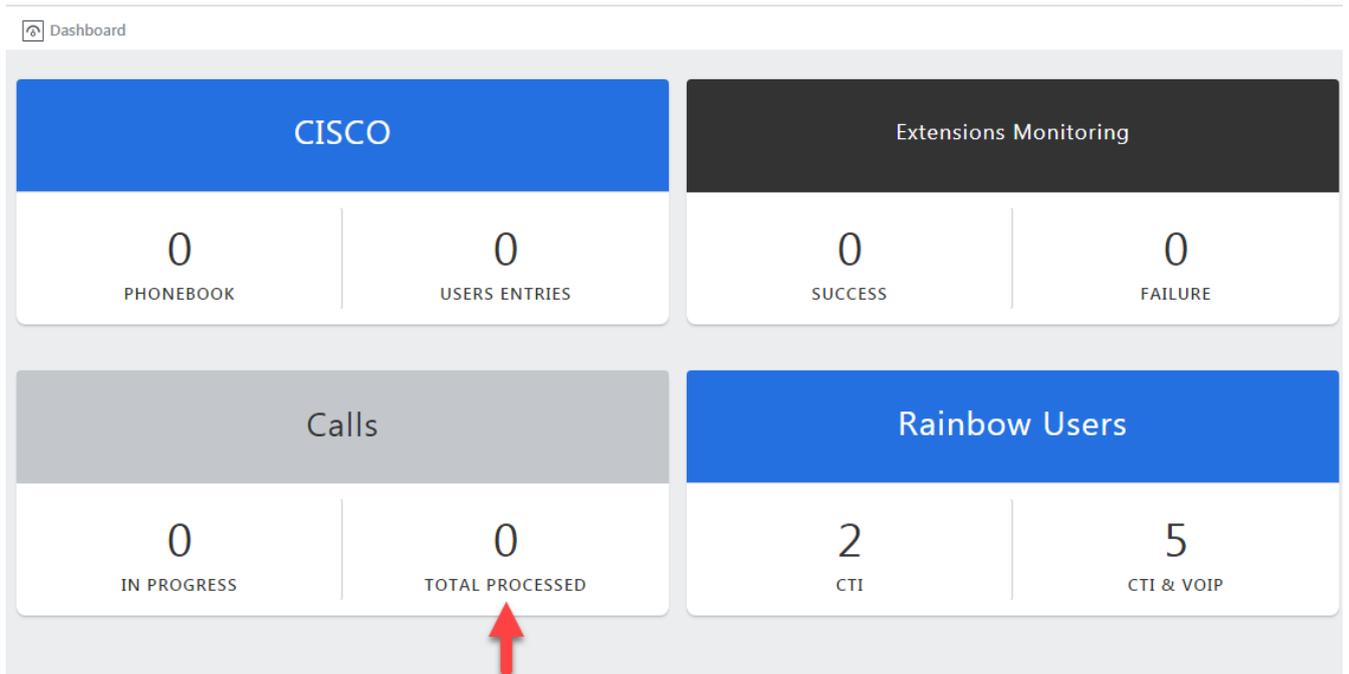
Active Calls

Extension	Called By	Called To	State
8005  	8005	340	CONNECTED

Navigation: < 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.



Dashboard

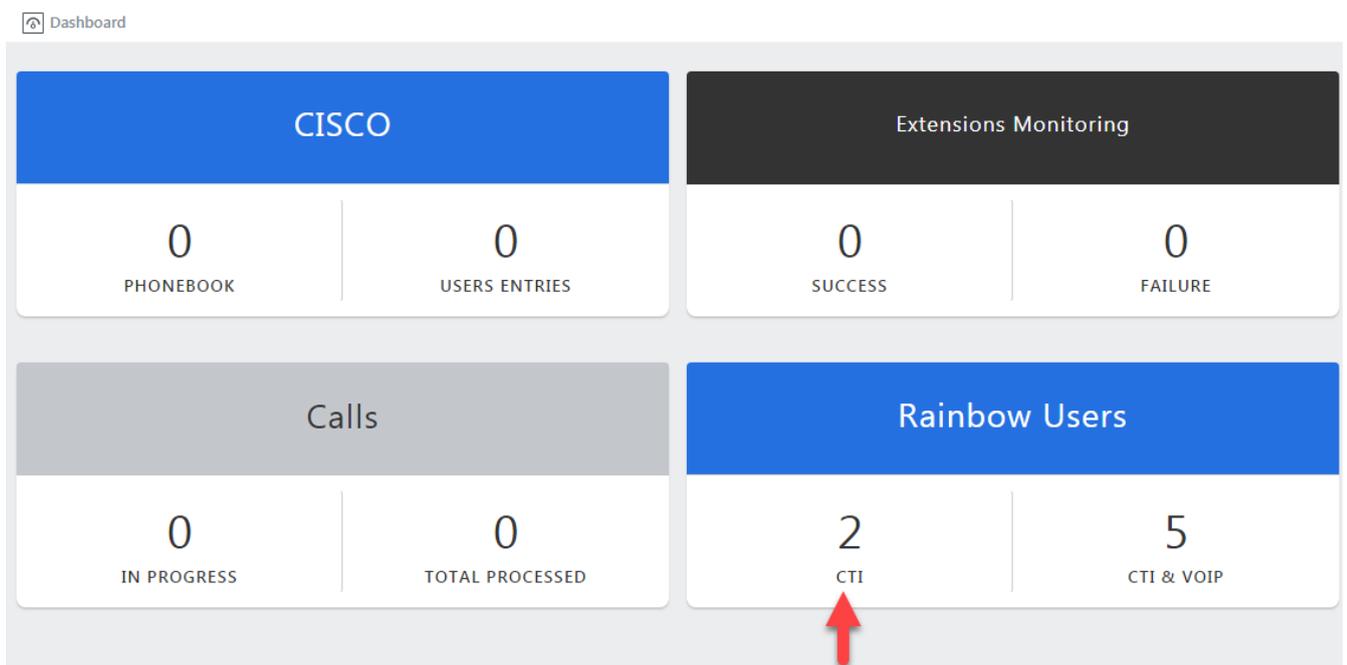
CISCO		Extentions Monitoring	
0 PHONEBOOK	0 USERS ENTRIES	0 SUCCESS	0 FAILURE
Calls		Rainbow Users	
0 IN PROGRESS	0 TOTAL PROCESSED	2 CTI	5 CTI & VOIP

Screenshot-Dashboard

4.6 Seeing active users in the system

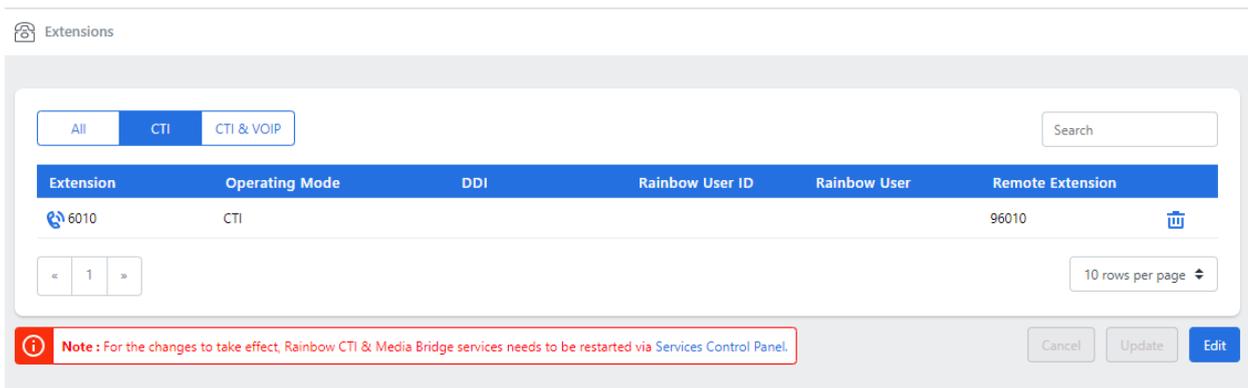
Rainbow CTI & Media Bridge provides a way to see the currently active users in the system (CTI users as well as CTI & VOIP users).

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



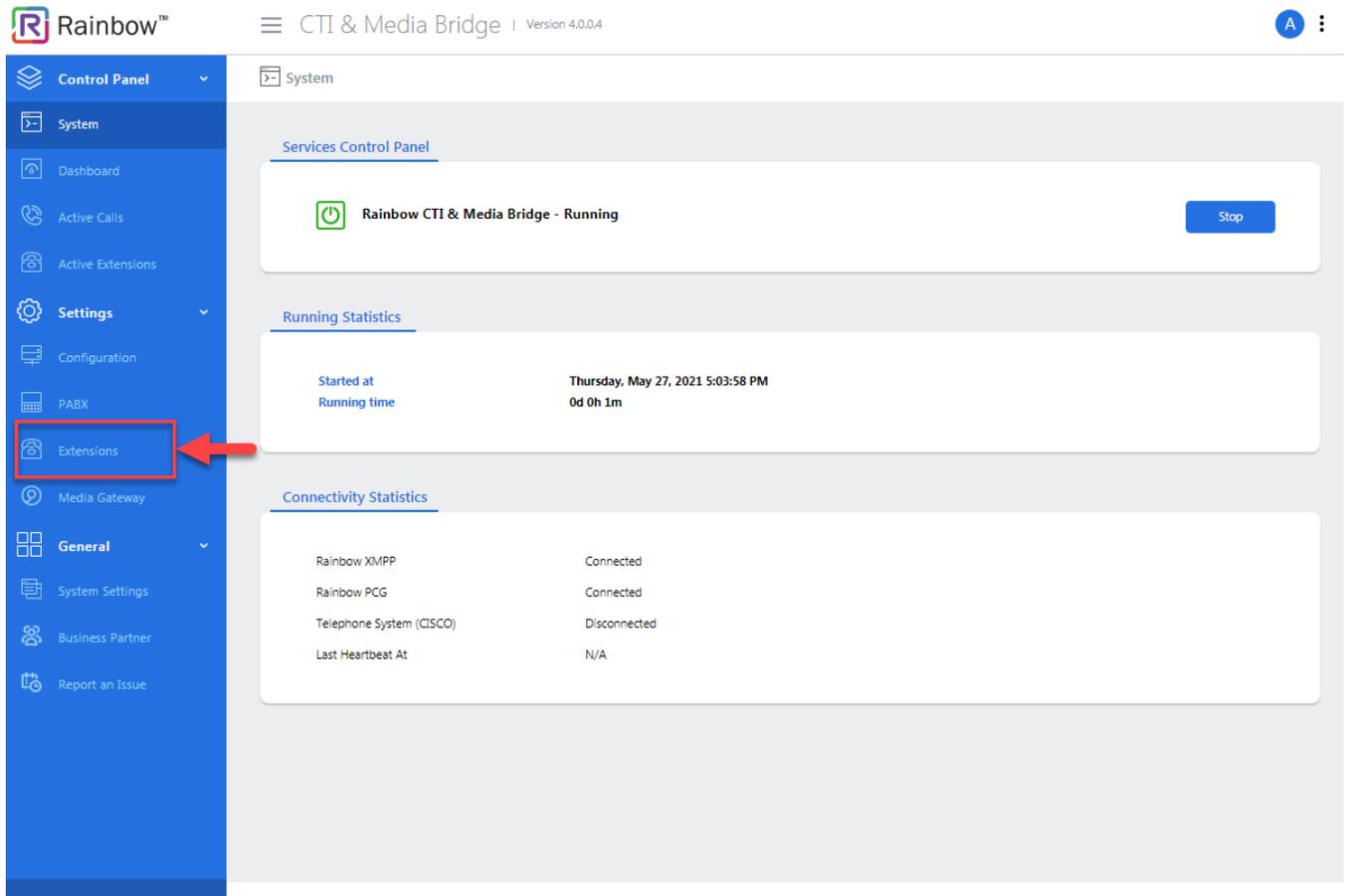
Screenshot-Dashboard

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



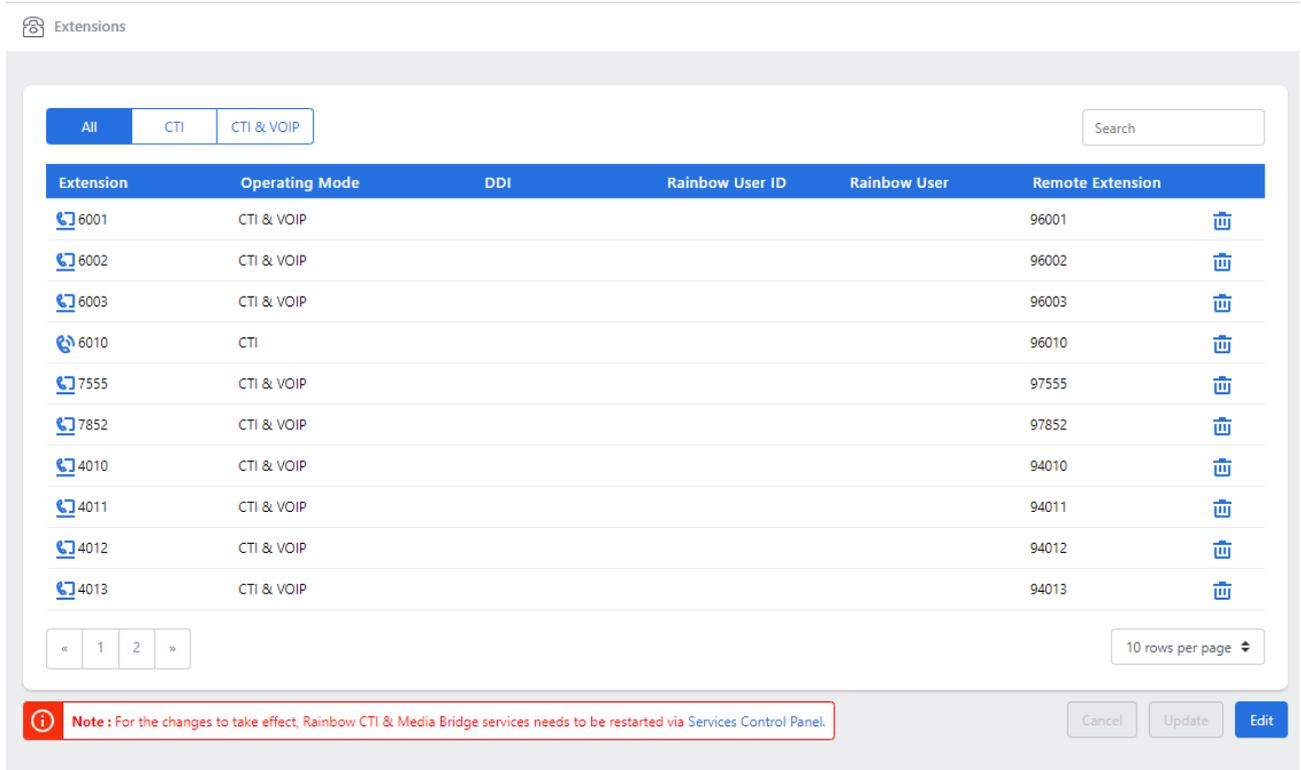
Screenshot- CTI Extensions

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:



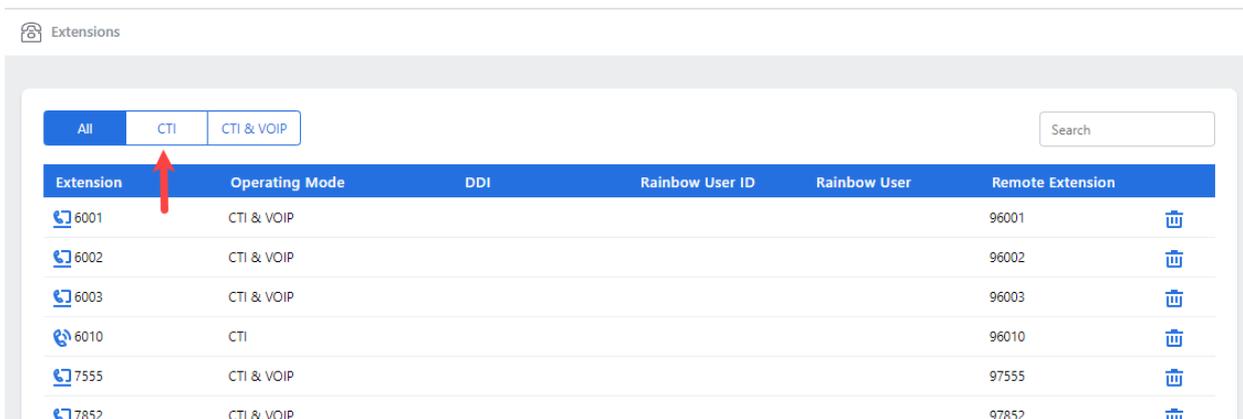
The screenshot shows the 'Extensions' management page. At the top, there are tabs for 'All', 'CTI', and 'CTI & VOIP'. A search bar is located to the right. Below the tabs is a table with the following columns: Extension, Operating Mode, DDI, Rainbow User ID, Rainbow User, and Remote Extension. The table contains 13 rows of data. At the bottom of the table, there are navigation controls (page 1 of 2) and a '10 rows per page' dropdown. Below the table, there is a red-bordered note box and three buttons: 'Cancel', 'Update', and 'Edit'.

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP				96001
6002	CTI & VOIP				96002
6003	CTI & VOIP				96003
6010	CTI				96010
7555	CTI & VOIP				97555
7852	CTI & VOIP				97852
4010	CTI & VOIP				94010
4011	CTI & VOIP				94011
4012	CTI & VOIP				94012
4013	CTI & VOIP				94013

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

Screenshot- Extensions

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

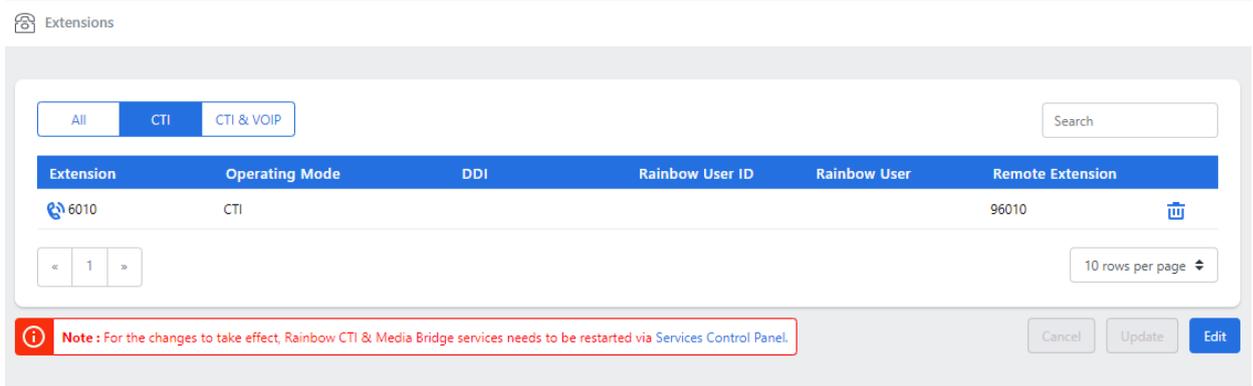


This screenshot is similar to the previous one, but the 'CTI' tab is now selected and highlighted with a red arrow. The table below shows only the CTI-related extensions.

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP				96001
6002	CTI & VOIP				96002
6003	CTI & VOIP				96003
6010	CTI				96010
7555	CTI & VOIP				97555
7852	CTI & VOIP				97852

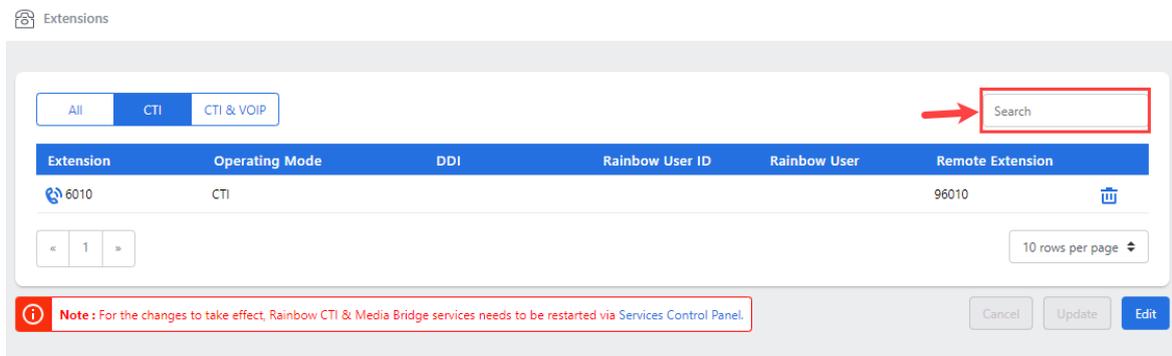
Screenshot- Extensions

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



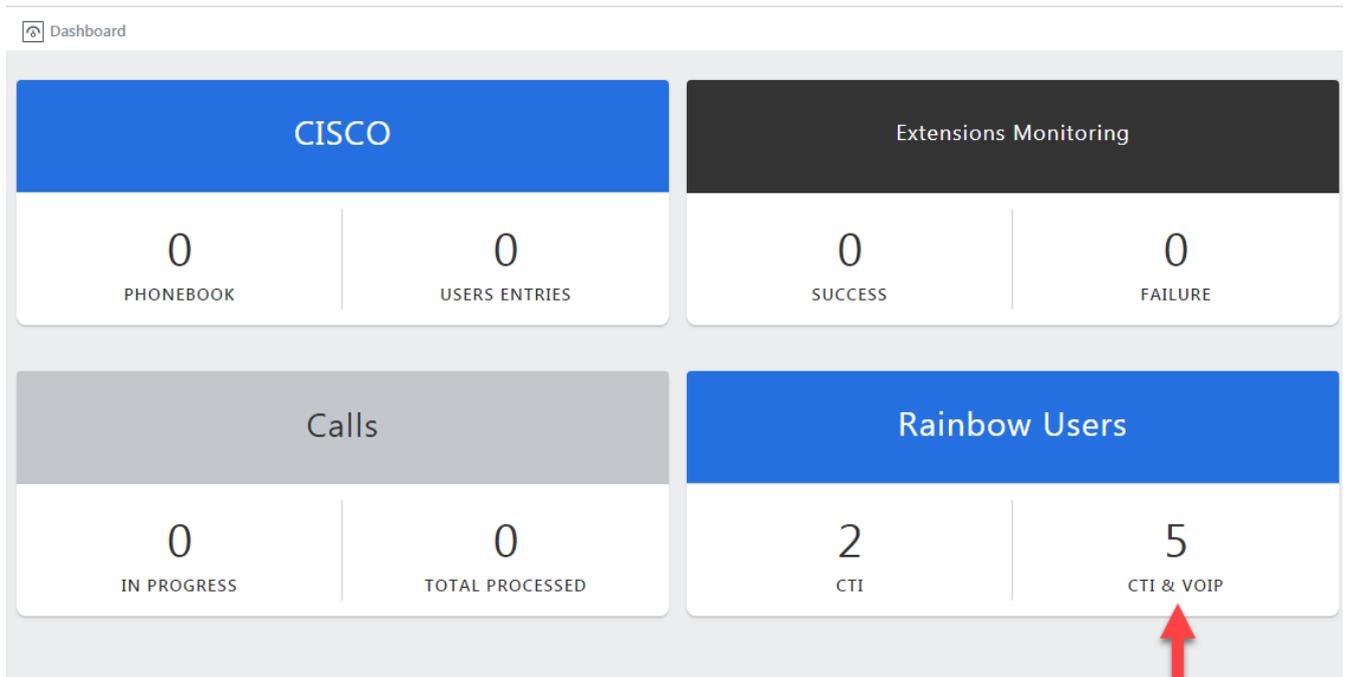
Screenshot- CTI Extensions

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



Screenshot- CTI Extensions

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



Screenshot-Dashboard

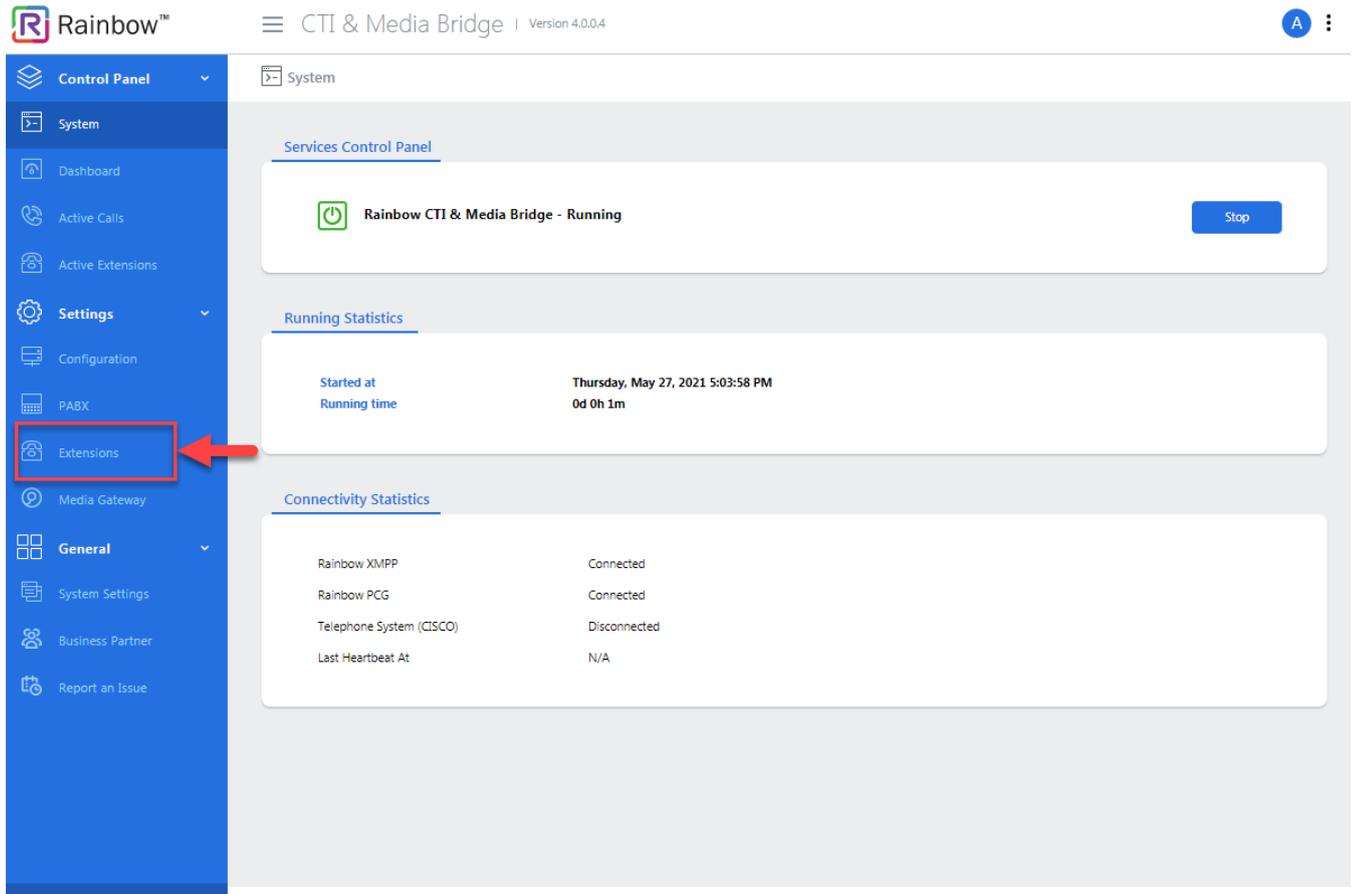
You will be presented with the screen with Rainbow users using CTI & VOIP extension, as shown below.

The Extensions screen shows the following data:

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension
6001	CTI & VOIP				96001
6002	CTI & VOIP				96002
6003	CTI & VOIP				96003
7555	CTI & VOIP				97555
7852	CTI & VOIP				97852
4010	CTI & VOIP				94010
4011	CTI & VOIP				94011
4012	CTI & VOIP				94012
4013	CTI & VOIP				94013
4014	CTI & VOIP				94014

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:

Extensions

All
CTI
CTI & VOIP

Search

Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension	
 6001	CTI & VOIP				96001	
 6002	CTI & VOIP				96002	
 6003	CTI & VOIP				96003	
 6010	CTI				96010	
 7555	CTI & VOIP				97555	
 7852	CTI & VOIP				97852	
 4010	CTI & VOIP				94010	
 4011	CTI & VOIP				94011	
 4012	CTI & VOIP				94012	
 4013	CTI & VOIP				94013	

<
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

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	Rainbow User	Remote Extension	
 6001	CTI & VOIP				96001	
 6002	CTI & VOIP				96002	
 6003	CTI & VOIP				96003	
 6010	CTI				96010	
 7555	CTI & VOIP				97555	

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	Rainbow User	Remote Extension	
6001	CTI & VOIP				96001	
6002	CTI & VOIP				96002	
6003	CTI & VOIP				96003	
7555	CTI & VOIP				97555	
7852	CTI & VOIP				97852	
4010	CTI & VOIP				94010	
4011	CTI & VOIP				94011	
4012	CTI & VOIP				94012	
4013	CTI & VOIP				94013	
4014	CTI & VOIP				94014	

Screenshot- CTI & VOIP Extensions

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

Extensions

All CTI **CTI & VOIP**

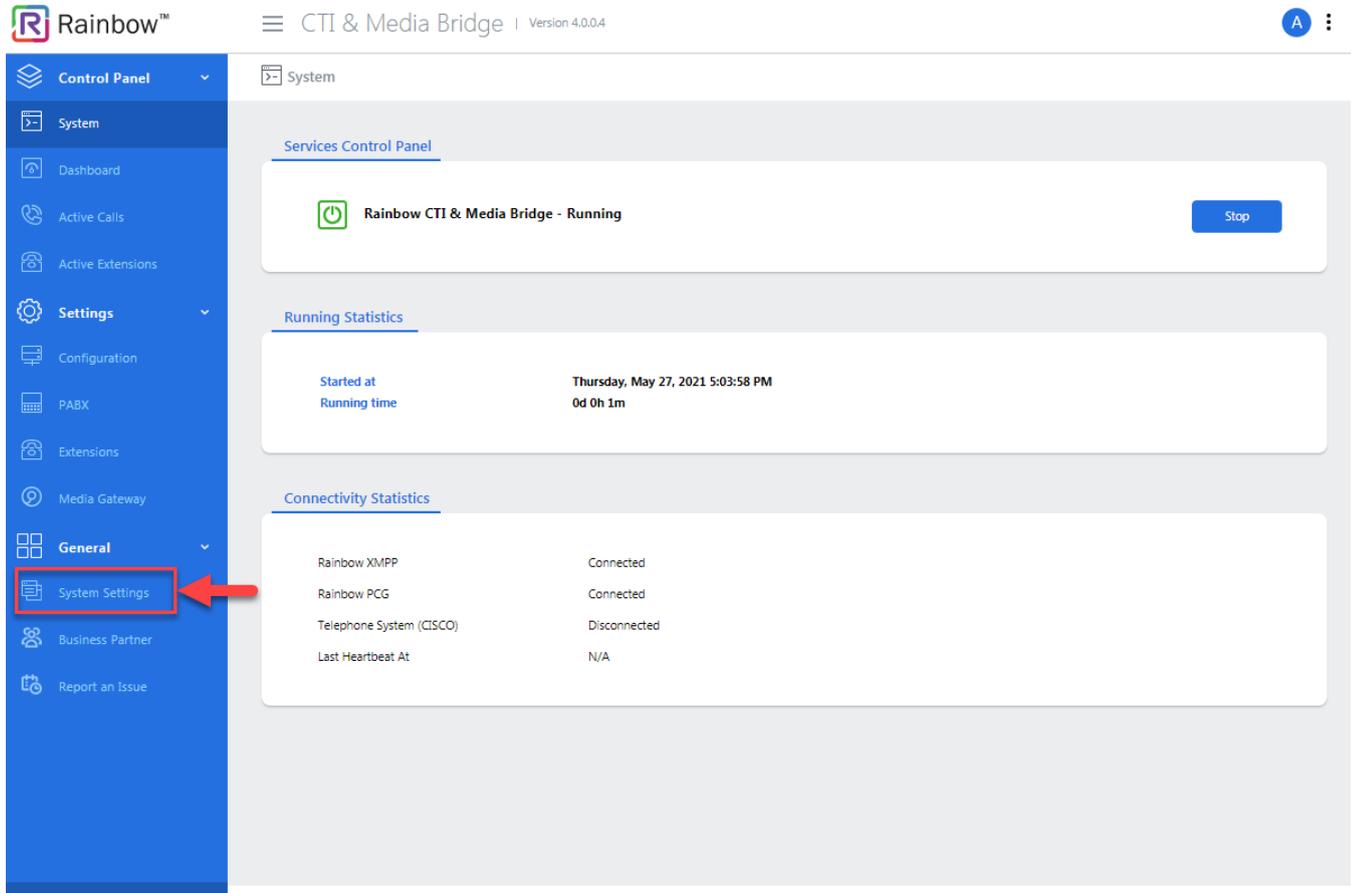
Extension	Operating Mode	DDI	Rainbow User ID	Rainbow User	Remote Extension	
6001	CTI & VOIP				96001	
6002	CTI & VOIP				96002	
6003	CTI & VOIP				96003	
7555	CTI & VOIP				97555	

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:



The screenshot displays the Rainbow CTI & Media Bridge administration interface. The left-hand menu is expanded to show 'System Settings' highlighted with a red box and a red arrow. The main content area shows the 'System' page with the following sections:

- Services Control Panel:** A card showing 'Rainbow CTI & Media Bridge - Running' with a 'Stop' button.
- Running Statistics:** A card showing 'Started at Thursday, May 27, 2021 5:03:58 PM' and 'Running time 0d 0h 1m'.
- Connectivity Statistics:** A table showing the status of various services:

Service	Status
Rainbow XMPP	Connected
Rainbow PCG	Connected
Telephone System (CISCO)	Disconnected
Last Heartbeat At	N/A

Screenshot-System

Following screen will be displayed:

System Settings

Traces

Location *

File Size * (Kbs)

No of Files *

General

Telephony

Communication

Error

SMTP Settings

Server *

Port *

Username

Password

Sender Email Address *

SSL Enabled

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

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

Traces

Location *

File Size * (Kbs)

No of Files *

General

Telephony

Communication

Error

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:

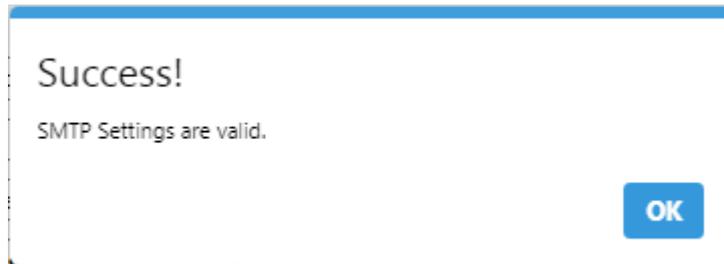
This is the email address used for sending the emails.

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.

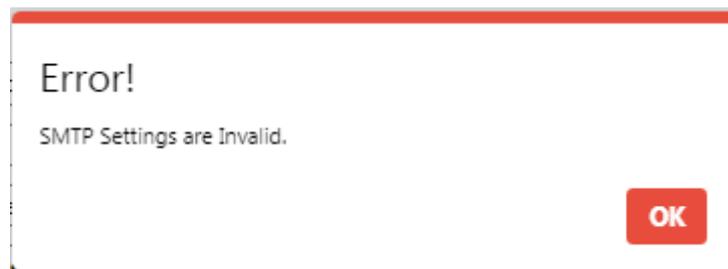
Note: *Username and password are optional fields for cases where Authentication is not setup for outgoing SMTP server.*

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:



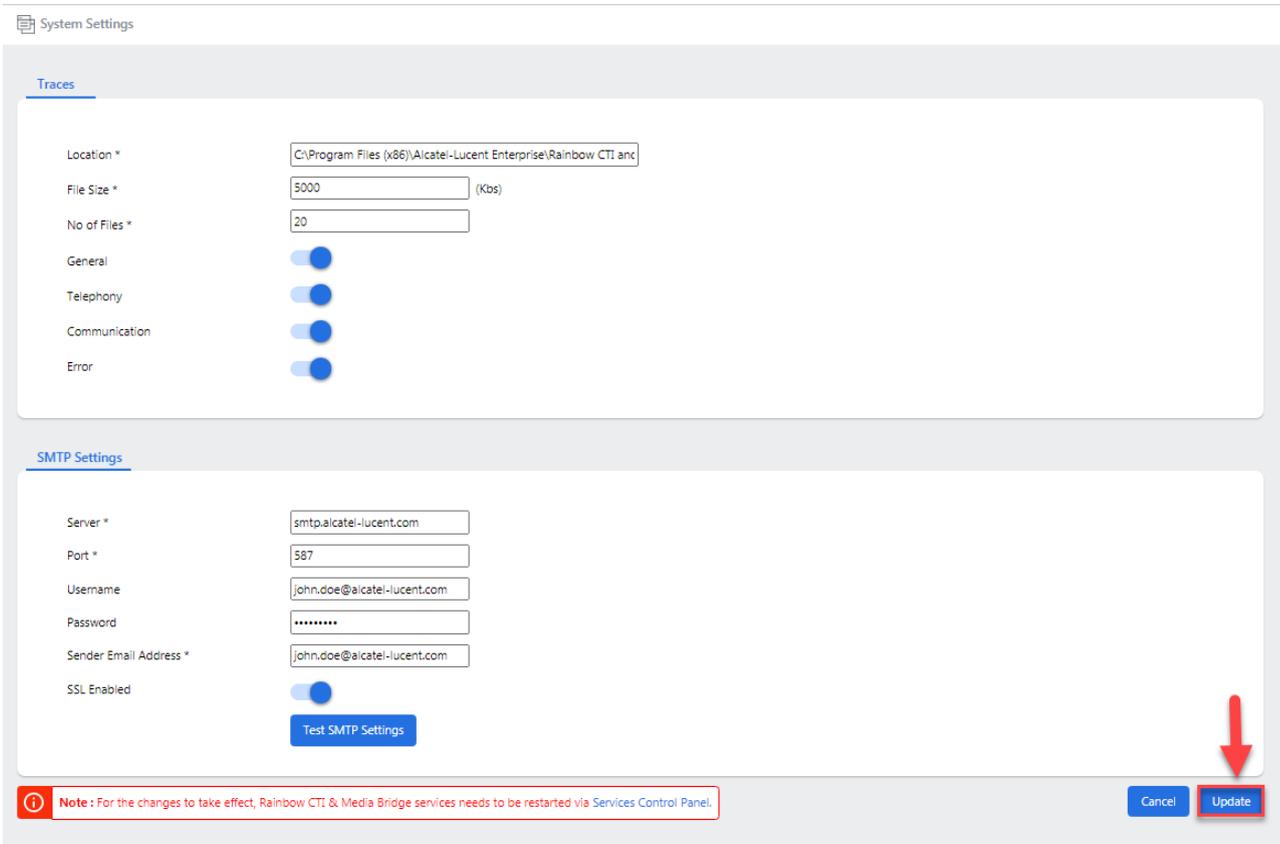
Screenshot - Message from Application

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



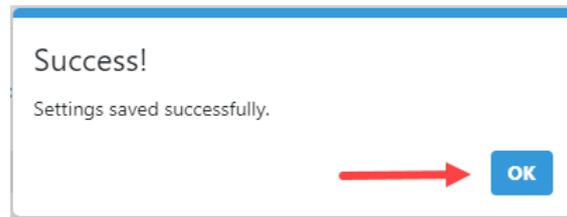
Screenshot - Message from Application

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. The "Traces" section has fields for "Location *" (C:\Program Files (x86)\Alcatel-Lucent Enterprise\Rainbow CTI an...), "File Size *" (5000 (Kbs)), and "No of Files *" (20). Below these are four toggle switches for "General", "Telephony", "Communication", and "Error", all of which are turned on. The "SMTP Settings" section has 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, there is a red-bordered note box 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 note are "Cancel" and "Update" buttons. A red arrow points to the "Update" button.

Screenshot - System Settings

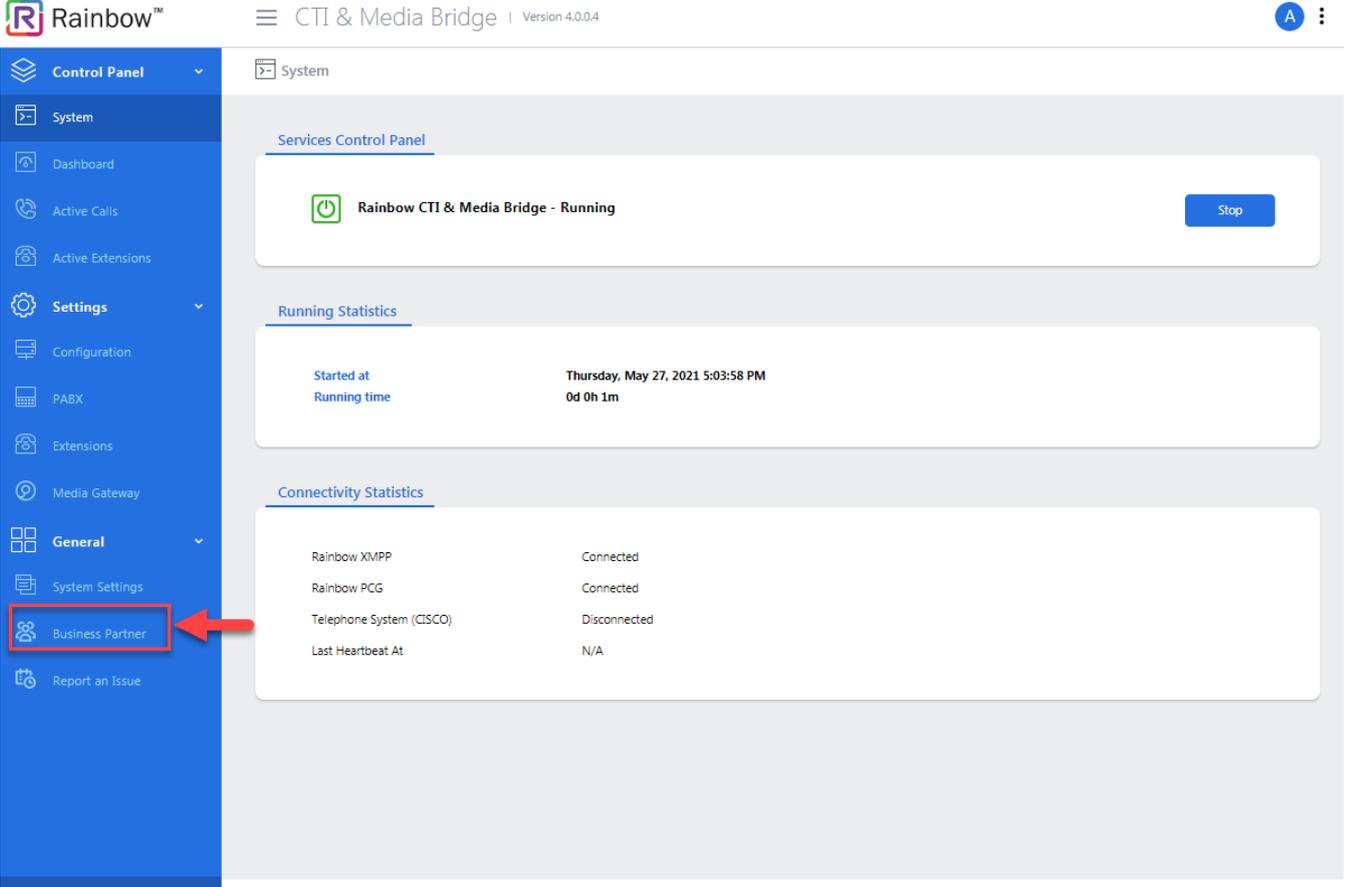
You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

5.2 Business Partner

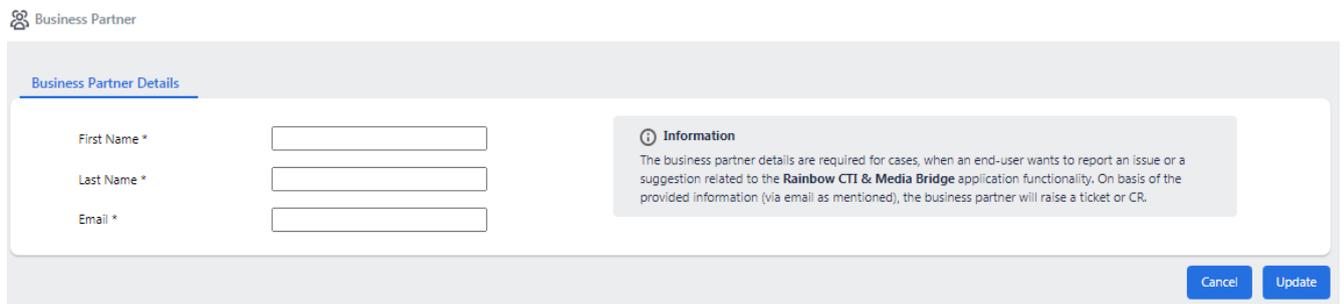
Rainbow CTI & Media Bridge enables users to send emails to their businesses partners whenever a technical issue is encountered through Report an Issue section. Information provided in Business partner section is used to send an email to your cornered partner. In order to provide contact information for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



Connectivity Statistics	
Rainbow XMPP	Connected
Rainbow PCG	Connected
Telephone System (CISCO)	Disconnected
Last Heartbeat At	N/A

Screenshot - System

Following page will be displayed:



Business Partner

Business Partner Details

First Name *

Last Name *

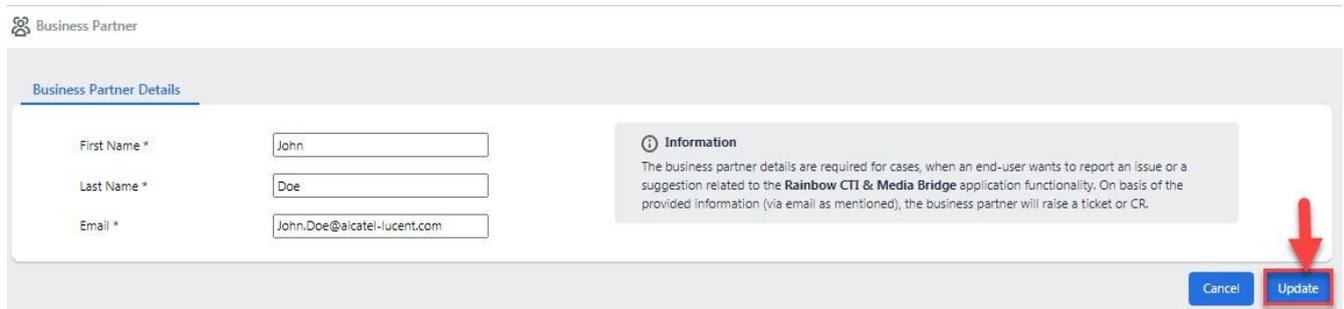
Email *

Information
The business partner details are required for cases, when an end-user wants to report an issue or a suggestion related to the **Rainbow CTI & Media Bridge** application functionality. On basis of the provided information (via email as mentioned), the business partner will raise a ticket or CR.

Cancel Update

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:



Business Partner

Business Partner Details

First Name *

Last Name *

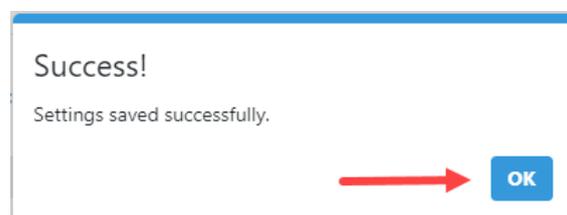
Email *

Information
The business partner details are required for cases, when an end-user wants to report an issue or a suggestion related to the **Rainbow CTI & Media Bridge** application functionality. On basis of the provided information (via email as mentioned), the business partner will raise a ticket or CR.

Cancel Update

Screenshot - Business Partner

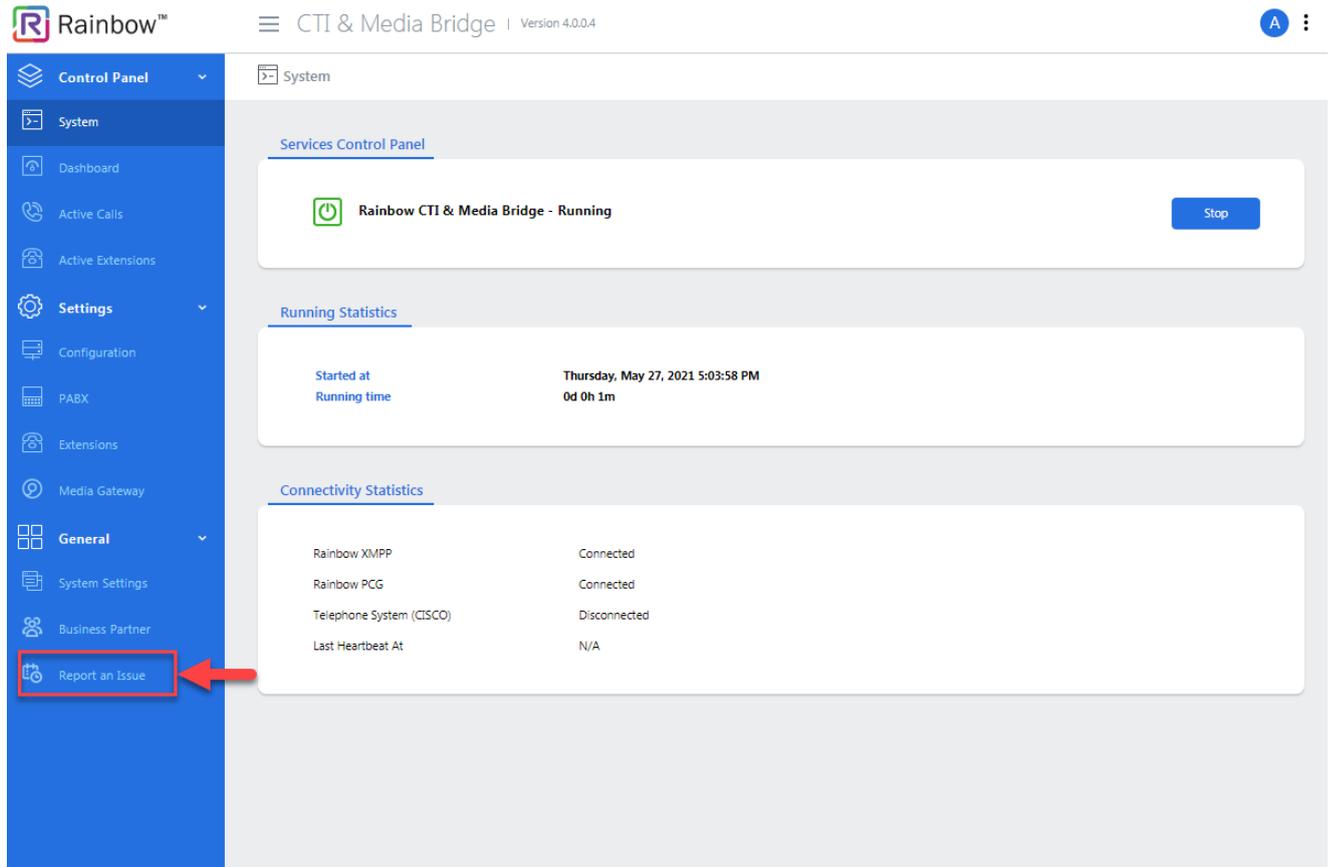
You will be presented with the popup window, click **OK**, as shown below.



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

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.

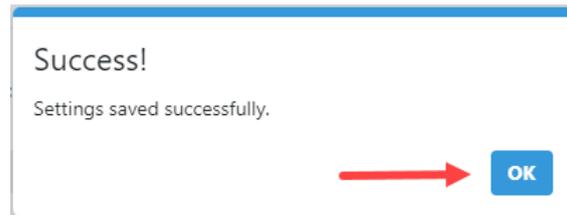
Logs Attachments

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.

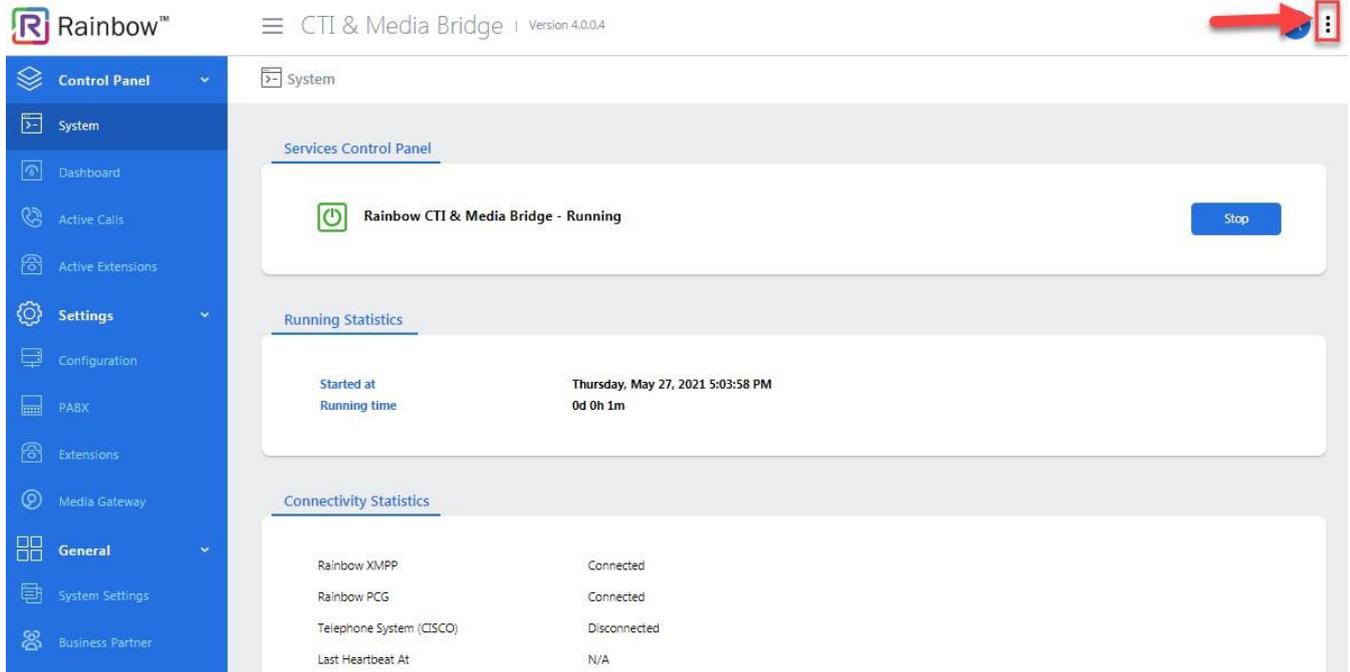
You will be presented with the popup window, click **OK**, as shown below.



Screenshot-Message from Application

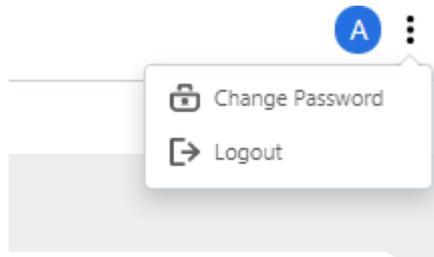
6 Change Password

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:



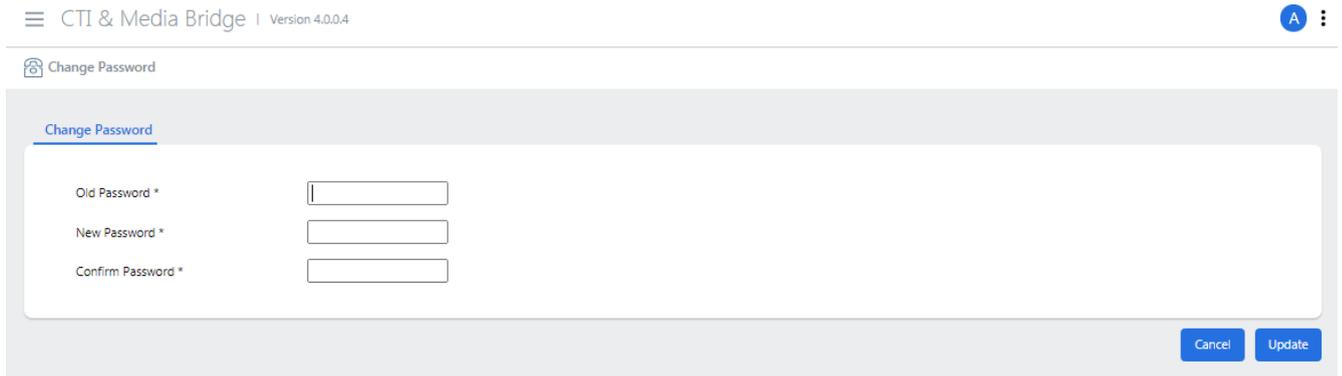
Screenshot-System Page

Following menu opens up when you click on this icon:



Screenshot- Drop Down Menu

Click on Change Password option and following screen is displayed:

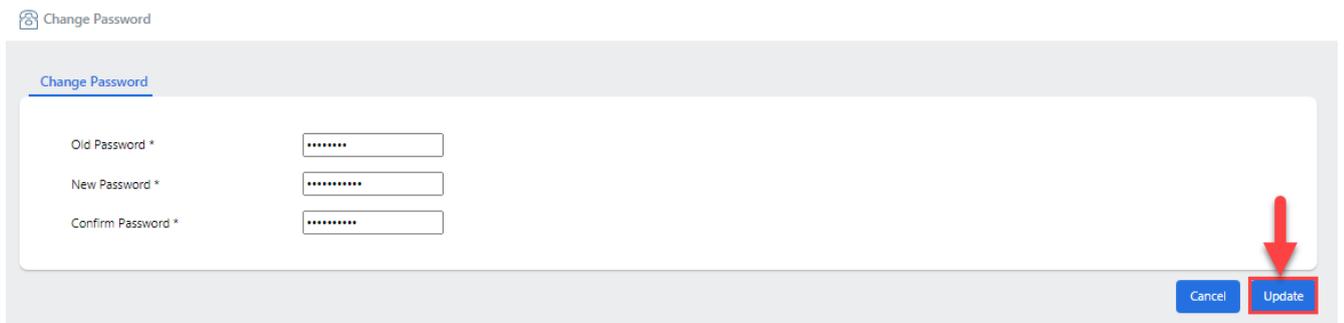


Screenshot- Change Password

All the fields are self-explanatory.

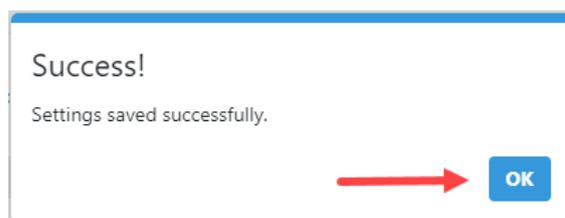
Note: *New password must consist of more than 7 characters.*

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



Screenshot- Change Password

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



Screenshot-Message from Application

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