



RECASTER

USER MANUAL FOR RECASTER

Comprehensive manual to use RECASTER for stream management

Version: 25.01.01

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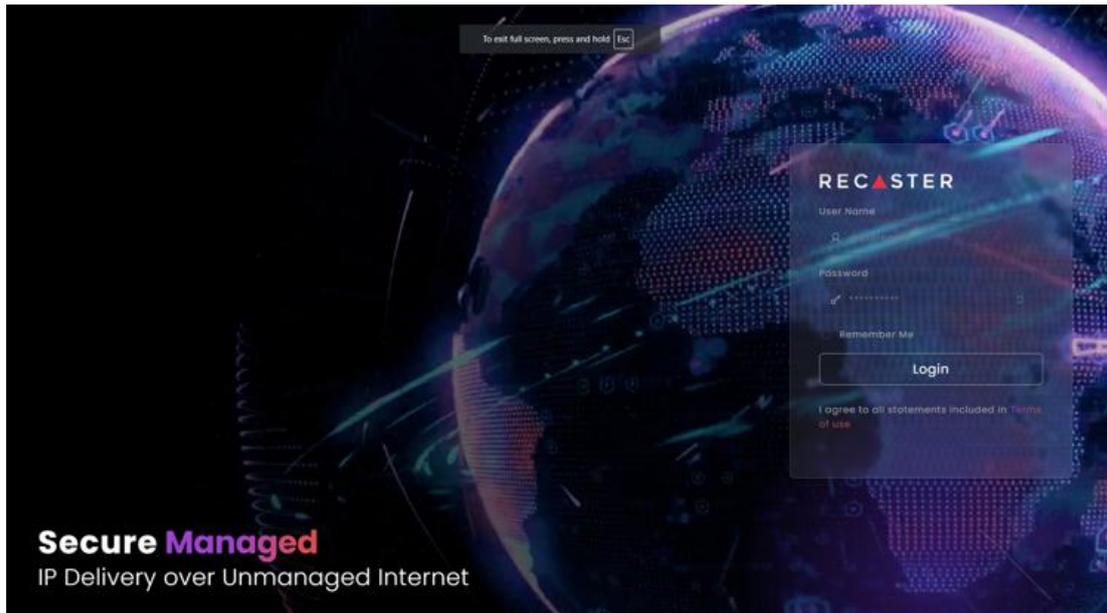
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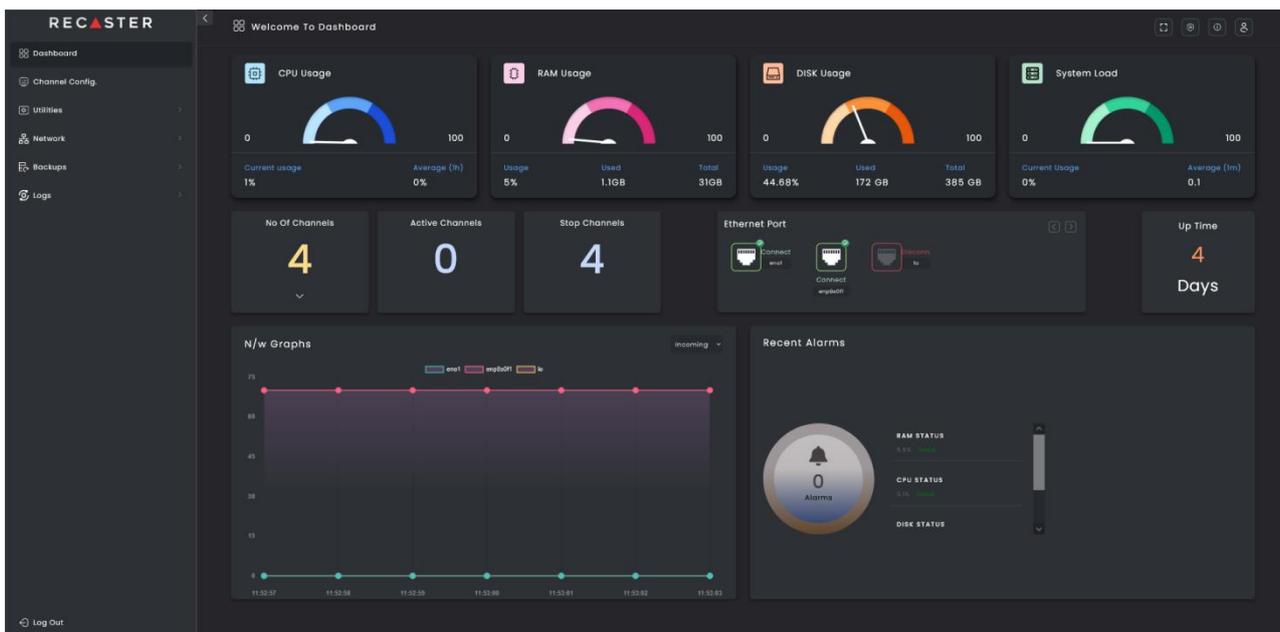
1. RECASTER Login

1. Access your RECASTER Instance UI on web browser through **IP:Port** of your **instance**. **For e.g.- 203.122.21.9:8090**. This will open the RECASTER UI.
2. Enter **admin** as User ID.
3. Enter your RECASTER **Instance Id** as Password.
4. Click **“Login”**.

Refer below screenshot displaying the RECASTER UI login screen:



On successful login, you will land on the RECASTER UI **Dashboard** page.



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2. Reset Password

The RECASTER UI allows you to change your RECASTER account's password as per your preference.

Follow the below process to change your RECASTER account's password.

1. Click the **User Login**  icon provided in header on right-top corner. This will open **Profile** and **Team Management** window.
2. Click "**Password**" tab provided on left-side.
3. Enter **Old Password**, **New Password** for the user account and **Confirm Password**.
4. Click "**Reset Password**" to apply your password change.

The above process will immediately change your RECASTER application account's login password.

Refer below screenshot displaying the Change Password window.



Now, you can login RECASTER UI again with your changed password, and proceed to **Channel Config** menu tab provided on left to manage (add/configure, edit, delete, start., and preview) your RECASTER services.

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3. Channel Config

By navigating to the **Channel Config** menu in side-bar navigation panel, you can find the feature to **add new channel configuration**.

It facilitates you to add channels configuration in **4 different modes** i.e **Transmission, Receiver, Server, or Client**.

The RECASTER UI allows defining the **.ts** channels for **SRT, ENCRYPTED SRT** and **RIST** protocols.

For **SRT& RIST** protocol you can configure channel for **TX** and mode. On the other hand, for **ENCRYPTED SRT** protocols you can configure channel recast service for **TX, RX, Client, and Server** mode.

This will also facilitate you to manage and control the multicast stream distribution of the channel you have added in **Channel Config**. At the center top of this page you will see running status of **CPU** and **Storage Utilization**.

Note:

V1.0, V2.0, V3.0 mentioned in below screenshots are interpreted as follows:

- V1.0 = SRT
- V2.0 = Encrypted SRT
- V3.0 = RIST

TX stands for TRANSMITTING

RX stands for RECEIVING

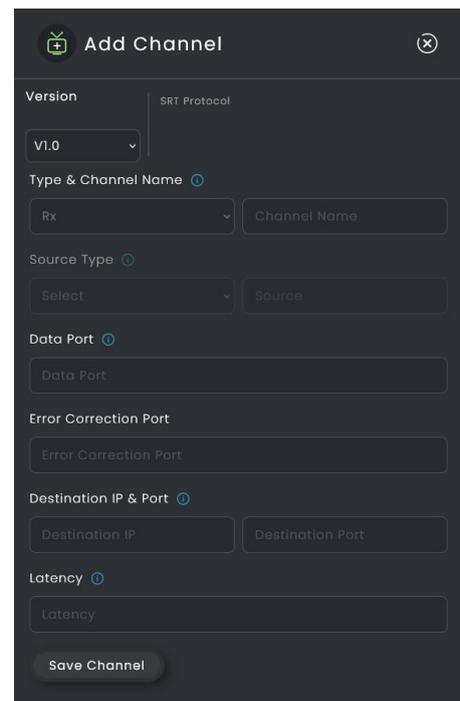
Follow the below process for adding a new channel configuration

Case 1: If you want to receive the **SRT** stream, then follow the steps given under **“Add RX channel for SRT”** section.

3.1 Add RX channel for SRT

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **SRT**.
4. Select preferred **Type** i.e **RX** to configure it as **receiver**.
5. Enter **Channel Name**.
6. Enter **Data Port** at which it receives channel's **UDP/RTP** feed.
7. Enter **Error Correction Port** from which it receives error correction packets.
8. Enter **Destination IP** and **Destination Port** where the **UDP** multicast stream will be delivered.
9. Enter preferred **Latency** (in milliseconds) for this **.ts** stream.
10. Click **“Save Channel”** button to save and apply the channel configuration.

The above process will add new channel configuration and ready to receive **UDP/RTP .ts** stream and recast **UDP** stream.. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit, and/or Delete**) that **RX** channel recast service.



The screenshot shows the 'Add Channel' configuration panel for SRT protocol. The panel is dark-themed and contains the following fields and controls:

- Version:** A dropdown menu set to 'V1.0'.
- SRT Protocol:** A label indicating the selected protocol.
- Type & Channel Name:** A dropdown menu set to 'Rx' and a text input field for 'Channel Name'.
- Source Type:** A dropdown menu set to 'Select' and a text input field for 'Source'.
- Data Port:** A text input field.
- Error Correction Port:** A text input field.
- Destination IP & Port:** Two text input fields for 'Destination IP' and 'Destination Port'.
- Latency:** A text input field.
- Save Channel:** A button at the bottom.

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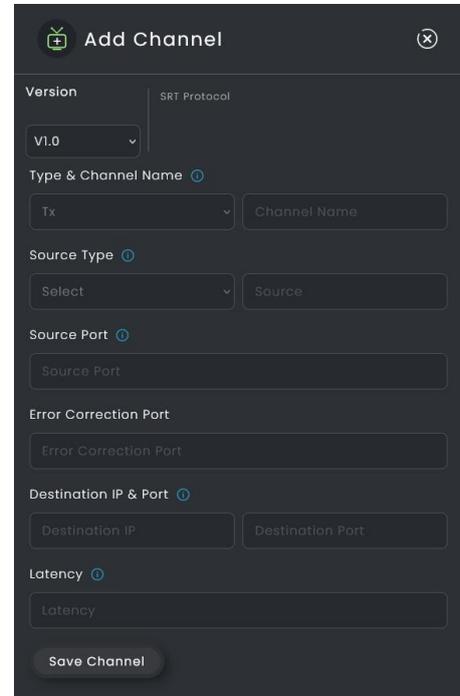
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Case 2: If you want to transmit the **SRT** stream, then follow the steps given under “**Add TX channel for SRT**” section.

3.2 Add TX Channel for SRT

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **SRT**.
4. Select preferred **Type** i.e **TX** to configure it as transmission service.
5. Enter **Channel Name**.
6. Select **Source Type** as **UDP** or **RTP** whichever is applicable for your input source.
7. Enter **Source IP** and **Source Port** from which it receives channel’s **UDP/RTP** feed.
8. Enter **Error Correction Port** at which it receives error correction packets.
9. Enter **Destination IP** and **Destination Port** at which the **UDP multicast** stream will be delivered.
10. Enter preferred **Latency** (in milliseconds) for this **.ts** stream.
11. Click “**Save Channel**” button to save and apply the channel configuration.

The above process will add new channel configuration and ready to receive **UDP/RTP .ts** stream and recast **UDP** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit, and/or Delete**) that **TX** channel recast service.



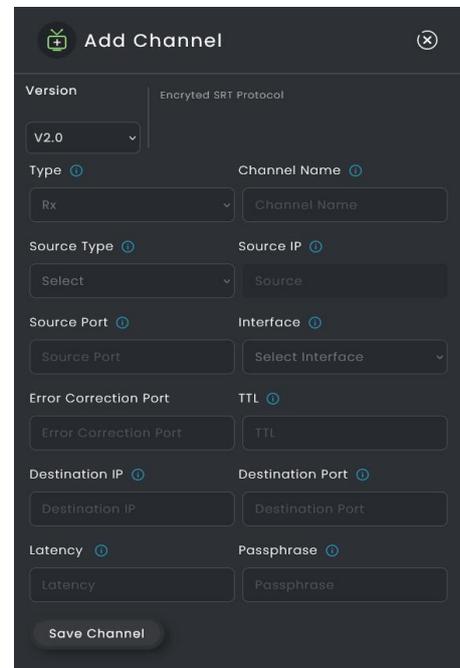
Case 3: If you want to receive the **SRT** stream as input, to transmit it to other location as **SRT**, then first follow the steps given under “**Add RX channel for SRT**” to add a receiver, and then follow the steps given under “**ADD TX channel for SRT**” to add a transmitter.

Case 4: If you want to transmit the **SRT** stream from one location, to receive it to other location as **SRT**, then first follow the steps given under “**ADD TX channel for SRT**” to add a transmitter, and then follow the steps given under “**Add RX channel for SRT**” to add a receiver.

Case 5: If you want to receive the **Encrypted SRT** stream, then follow the steps given under “**Add RX channel for Encrypted SRT**” section.

3.3 Add RX channel for Encrypted SRT

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **ENCRYPTED SRT**.
4. Select preferred **Type** i.e **RX** to configure it as **Receiver**.
5. Enter **Channel Name**.
6. Select **Source Type** as **UDP** or **RTP** whichever is applicable for your input source.
7. Enter **Source Port** at which it receives channel’s **UDP/RTP/SRT** feed.
8. Choose preferred **Source Interface** through which the **UDP/RTP input** stream will be received.
9. Enter **Error Correction Port** at which it receives error correction packets.
10. Enter preferred **TTL** value.
11. Enter **Destination IP** and **Destination Port** at which the **UDP multicast** stream will be delivered.
12. Enter preferred **Latency** (in milliseconds) for this **.ts** stream.
13. Enter **Passphrase** value that will be used to authenticate the multicast stream.
14. Click “**Save Channel**” button to save and apply the channel configuration.



The screenshot shows the 'Add Channel' configuration panel for the 'Encrypted SRT Protocol'. The 'Version' is set to 'V2.0'. The 'Type' is 'Rx'. The 'Channel Name' field is empty. The 'Source Type' is 'Select'. The 'Source IP' field is empty. The 'Source Port' field is empty. The 'Interface' is 'Select Interface'. The 'Error Correction Port' field is empty. The 'TTL' field is empty. The 'Destination IP' field is empty. The 'Destination Port' field is empty. The 'Latency' field is empty. The 'Passphrase' field is empty. A 'Save Channel' button is at the bottom.

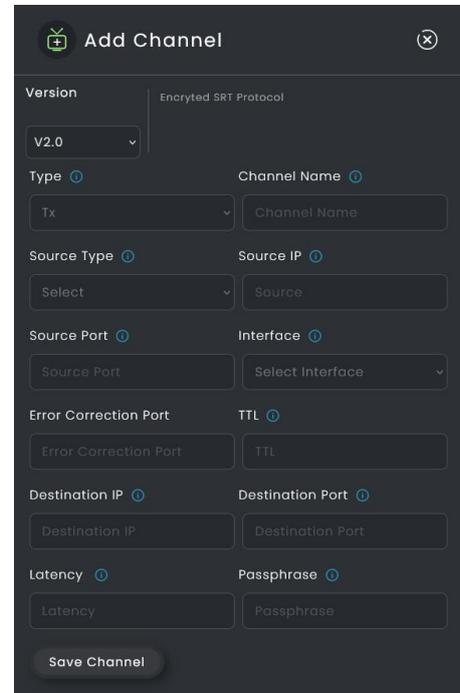
The above process will add new channel configuration and ready to receive **UDP/RTP/SRT .ts** stream and recast **UDP** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit, and/or Delete**) that **RX** channel recast service.

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Case 6: If you want to transmit the **Encrypted SRT** stream, then follow the steps given under “**Add TX channel for Encrypted SRT**” section.

3.4 Add TX channel for Encrypted SRT

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **ENCRYPTED SRT**.
4. Select preferred **Type** i.e **TX** to configure it as transmission service.
5. Enter **Channel Name**.
6. Select **Source Type** as **UDP** or **RTP** whichever is applicable for your input source.
7. Enter **Source IP** and **Source Port** from which it receives channel’s **UDP/RTP** feed.
8. Choose preferred **Source Interface** through which the **UDP/RTP** input stream will be received.
9. Enter **Error Correction Port** at which it receives error correction packets.
10. Enter preferred **TTL** value.
11. Enter **Destination IP** and **Destination Port** at which the **Encrypted/Non-Encrypted SRT multicast** stream will be delivered.
12. Enter preferred **Latency** (in milliseconds) for this **.ts** stream.
13. Enter **Passphrase** value that will be used to authenticate the multicast stream. *(Only to be used when Encrypted SRT is to be delivered)*
14. Click “**Save Channel**” button to save and apply the channel configuration.



The above process will add new channel configuration and ready to receive **UDP/RTP .ts** stream and recast **SRT** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start**, **Stop**, **Edit**, and/or **Delete**) that **TX** channel recast service.

Case 7: If you want to receive the **Encrypted SRT** stream as input, to transmit it to other location as **Encrypted SRT**, then first follow the steps given under “**Add RX channel for Encrypted SRT**” to add a receiver, and then follow the steps given under “**ADD TX channel for Encrypted SRT**” to add a transmitter.

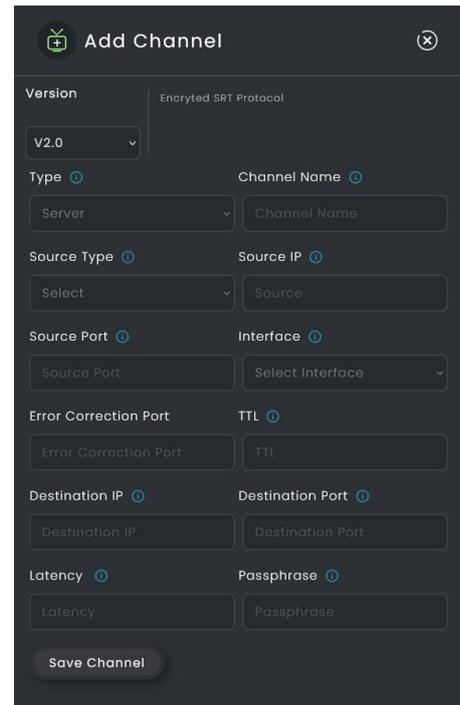
Case 8: If you want to transmit the **Encrypted SRT** stream from one location, to receive it to other location as **Encrypted SRT**, then first follow the steps given under “**ADD TX channel for Encrypted SRT**” to add a transmitter, and then follow the steps given under “**Add RX channel for Encrypted SRT**” to add a receiver.

Case 9: If you want to broadcast an **Encrypted SRT** stream, then follow the steps given under “**Add server for Encrypted SRT**”.

Server Mode: If you have to create an encrypted SRT feed on an instance in server mode then your receiver/ Encrypted SRT user can pull that feed by entering the Public IP and PORT number of your instance.

3.5 Add Server channel for Encrypted SRT

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **ENCRYPTED SRT**.
4. Select preferred **Type** i.e **Server** to configure it as **Server**.
5. Enter **Channel Name**.
6. Select **Source Type** as **UDP** or **RTP** whichever is applicable for your input source.
7. Enter **Source IP** and **Source Port** from which it receives channel’s **UDP/RTP** feed.
8. Choose preferred **Source Interface** through which the **UDP/RTP input** stream will be received.
9. Enter **Error Correction Port** at which it receives error correction packets.
10. Enter preferred **TTL** value.
11. Enter **Destination IP** and **Destination Port** at which the **Encrypted/Non-Encrypted SRT multicast** stream will be delivered.
12. Enter preferred **Latency** (in milliseconds) for this **.ts** stream.
13. Enter **Passphrase** value that will be used to authenticate the multicast stream. *(Only to be used when Encrypted SRT is to be delivered)*
14. Click “**Save Channel**” button to save and apply the channel configuration.



The above process will add new channel configuration and ready to receive **UDP/RTP .ts** stream and recast **SRT** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit, and/or Delete**) that **Server** channel recast service.

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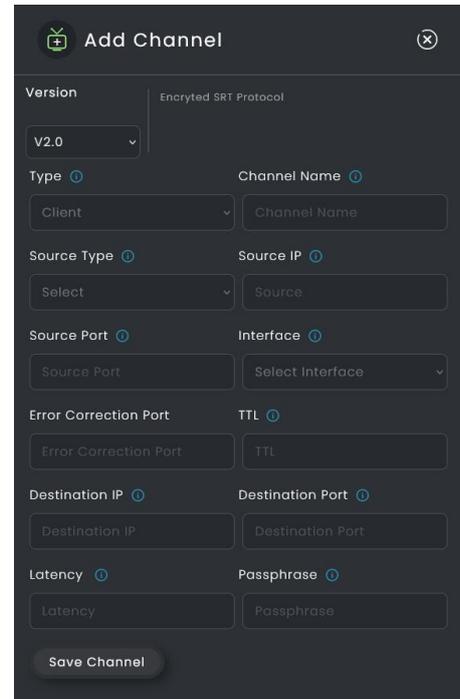
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Case 10: If you want to receive an **Encrypted SRT** broadcast stream, then follow steps given under “**Add client channel for encrypted SRT**” section.

Client Mode: Client will initiate the SRT connections to server for feed reception. Once the server receives the request from client then server binds the client to its IP & PORT to initiate streaming.

3.6 Add Client channel for Encrypted SRT

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **ENCRYPTED SRT**.
4. Select preferred **Type** i.e **Client** to configure it as **Client**.
5. Enter **Channel Name**.
6. Select **Source Type** as **UDP** or **RTP** whichever is applicable for your input source.
7. Enter **Source IP** and **Source Port** from which it receives channel’s **UDP/RTP** feed.
8. Choose preferred **Source Interface** through which the **UDP/RTP** input stream will be received.
9. Enter **Error Correction Port** at which it receives error correction packets.
10. Enter preferred **TTL** value.
11. Enter **Destination IP** and **Destination Port** at which the **UDP multicast** stream will be delivered.
12. Enter preferred **Latency** (in milliseconds) for this **.ts** stream.
13. Enter **Passphrase** value that will be used to authenticate the multicast stream.
14. Click “**Save Channel**” button to save and apply the channel configuration.



The above process will add new channel configuration and ready to receive **UDP/RTP/SRT .ts** stream and recast **UDP** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit, and/or Delete**) that **Client** channel recast service.

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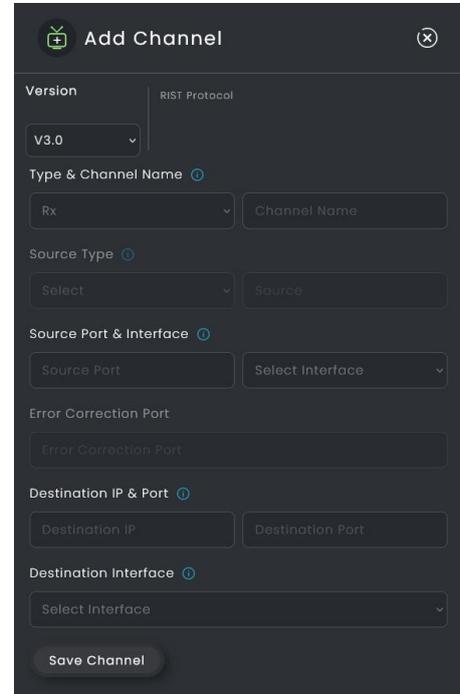
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Case 11: If you want to receive the **RIST** stream, then follow the steps given under “**ADD Rx channel for RIST**” section.

3.7 Add RX channel for RIST

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **RIST**.
4. Select preferred **Type** i.e **Client** to configure it as **Client**.
5. Enter **Channel Name**.
6. Choose preferred **Source Port** from which it receives channel’s **UDP/RTP** feed.
7. Choose preferred **Source Interface** through which the **UDP/RTP input** stream will be received.
8. Enter **Destination IP** and **Destination Port** at which the **UDP multicast** stream will be delivered.
9. Choose preferred **Destination Interface** through which the **UDP multicast** will be delivered to destination.
10. Click “**Save Channel**” button to save and apply the channel configuration.

The above process will add new channel configuration and ready to receive **UDP/RTP/RIST .ts** stream and recast **UDP** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit, and/or Delete**) that **RX** channel recast service.



The screenshot shows the 'Add Channel' configuration panel for RIST Protocol. The panel is dark-themed and contains the following fields and options:

- Version:** A dropdown menu set to 'V3.0'.
- RIST Protocol:** A label indicating the selected protocol.
- Type & Channel Name:** A dropdown menu set to 'Rx' and a text input field for 'Channel Name'.
- Source Type:** A dropdown menu set to 'Select' and a text input field for 'Source'.
- Source Port & Interface:** A text input field for 'Source Port' and a dropdown menu for 'Select Interface'.
- Error Correction Port:** A text input field for 'Error Correction Port'.
- Destination IP & Port:** A text input field for 'Destination IP' and a text input field for 'Destination Port'.
- Destination Interface:** A dropdown menu for 'Select Interface'.
- Save Channel:** A button at the bottom of the panel.

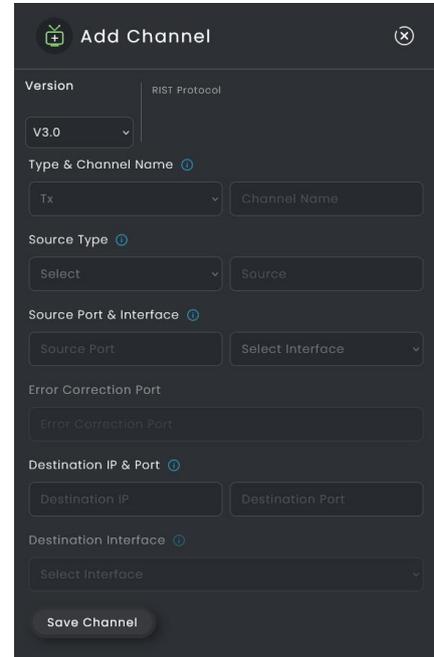
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Case 12: If you want to transmit the RIST stream, then follow the steps given under “**Add TX channel for RIST**” section.

3.8 Add TX channel for RIST

1. Navigate to **Channel Config** page.
2. Click **Add Channel** button. This will open the channel configuration panel on right-side.
3. Select **Version** as **RIST**.
4. Select preferred **Type** i.e **Client** to configure it as **receiver**.
5. Enter **Channel Name**.
6. Select **Source Type** as **UDP** or **RTP** whichever is applicable for your input source.
7. Enter **Source IP** and **Source Port** from which it receives channel’s **UDP/RTP** feed.
8. Enter **Destination IP** and **Destination Port** at which the **UDP multicast** stream will be delivered.
9. Click “**Save Channel**” button to save and apply the channel configuration.

The above process will add new channel configuration and ready to receive **UDP/RTP .ts** stream and recast **RIST** stream. This channel will be listed down on the Channel Configuration page from where you can easily manage (**Start, Stop, Edit,** and/or **Delete**) that **TX** channel recast service.



Case 13: If customer has to first Receive RIST and then Send it to other location then first Follow first the steps given under “**Add RX channel for RIST**” and then secondly follow the steps given under “**ADD TX channel for RIST**”.

Case 14: If customer has to first Transmit RIST and then Receive it at other location then follow first the steps given under “**Add TX channel for RIST**” and then secondly follow the steps given under “**Add RX channel for RIST**”.

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4. Manage & Control Channel Stream RECASTER Service

Once you have added a multicast stream channel, you can manage and control the multicast stream distribution/transmission by clicking the respective **Action** buttons.

Here, you can **Start** stream recast service, **Stop** stream recast service, **Edit** channel configuration, **Copy** channel configuration to quickly add new channel configuration, and access running **Logs** of that respective stream recast service.



START:

You can click this button to start multicast stream recast service.



EDIT:

You can click this button to edit the respective channel configuration.



DELETE:

You can click this button to delete respective stream recast service.



COPY:

You can click this button to copy the channel configuration so as to quickly add new channel configuration with the same configurations.



Logs:

You can click this button to access running **Logs** of that respective stream recast service that will display you information such as **Date, Time, RTT, Bandwidth, Max Bandwidth, Data Packets Send, Received, Lost, Dropped, Retransmitted.**

Apart from controlling the recast service individually, it will facilitate you to **Start, Stop and Delete multiple recast services** at the same time by selecting them one-by-one and then clicking the respective buttons that will appear in grid header after selecting the recast services in grid.

Note:

- ✧ *You will not be allowed to **Delete** a channel which is running.*
 - ✧ *The running channel appears in "**Green**" color whereas the channel whose stream is not receiving appears in "**Red**" color.*
-

Refer below screenshot displaying the list of added recast services along with their management and control actions.

Click to view running recast services in Mosaic View

BULK Actions on chosen multiple recast services

Click over the running service to see N/W, RECASTER Stats, Stream

Start/Stop Channel Recast service

Edit channel Config

View Logs

Delete channel

It will allow you to click **Mosaic View** icon provided above the listed channel's grid to see running channels' status in Mosaic View.

Below screenshot displaying the running channels in Mosaic View.:

You can further click over the channel to see:

1. **N/W Traffic**
2. **RECASTER Stats** such as **RECASTER Bitrate Status**
3. Running multicast stream **Preview**.

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1) N/W Traffic

The **N/W Traffic** tab display the network traffic status for running channel recast service.

Refer below screenshot displaying the N/W Traffic for a channel.

The screenshot shows the RECASTER interface with the 'Channel List' tab selected. The 'N/W Traffic' sub-tab is active, displaying a list of channels and their network traffic details. Channel 4, 'Priyaranjan', is highlighted in green, indicating it is the selected channel. The traffic log shows several entries for 'Fri Feb 9 12:34:16 2024' with UDP traffic from 172.16.230.203:59886 to 235.6.5.4:15236.

SNo	Version	Type	Input Type	Channel Name	Main Source	Destination	Error Port	PassPhrase	Action
1	v2	Server	udp	Testing	238.1.1.32:5032	0.0.0.0:9001	-	#####	[Play] [Stop] [Refresh] [Close]
2	v2	Tx	udp	mp1stest	235.1.2.3:5001	235.3.5.8:5854	-	#####	[Play] [Stop] [Refresh] [Close]
3	v2	Server	udp	testmpt1234	238.1.1.57:5057	0.0.0.0:6555	-	#####	[Play] [Stop] [Refresh] [Close]
4	v2	Rx	udp	Priyaranjan	:15001	235.6.5.4:15236	-	#####	[Play] [Stop] [Refresh] [Close]
5	v2	Tx	udp	TestingTx_test	235.1.1.1:6000	42.99.180.133:15001	-	#####	[Play] [Stop] [Refresh] [Close]
6	v2	Client	udp	test_hope	4.15.237.237:11114	238.1.1.1:18001	-	#####	[Play] [Stop] [Refresh] [Close]
7	v2	Server	udp	gcptest	235.1.1.1:6000	42.99.180.133:15001	-	#####	[Play] [Stop] [Refresh] [Close]
8	v2	Client	udp	clientTest	42.99.180.133:15001	235.2.3.6:3265	-	#####	[Play] [Stop] [Refresh] [Close]
9	v2	Rx	udp	hubtest	:7109	235.6.5.4:5548	-	#####	[Play] [Stop] [Refresh] [Close]
10	v2	Server	udp	sdiRecv	235.1.2.3:5599	0.0.0.0:4567	-	#####	[Play] [Stop] [Refresh] [Close]

2) RECASTER Stats

The **RECASTER Stats** tab display you the **RECASTER Stats** such as *rtt*, *packetsBelated*, *mbitRate*, *packets*, *bytes*, *packetsDropped*, *bytesDropped*, *bytesLost*, *packetsLost*, and *packetsRetransmitted*.

Refer below screenshot displaying the RECASTER Stats of a running channel recast service.

The screenshot shows the RECASTER interface with the 'Channel List' tab selected. The 'Recaster Stats' sub-tab is active, displaying a list of channels and their recasting statistics. Channel 4, 'Priyaranjan', is highlighted in green, indicating it is the selected channel. The stats for channel 4 are: RTT: 0.086, Bandwidth: 787.532, maxBandwidth: 1000, Packets: 1998, and Packets Loss: 0.

SNo	Version	Type	Input Type	Channel Name	Main Source	Destination	Error Port	PassPhrase	Action
3	v2	Server	udp	testmpt1234	238.1.1.57:5057	0.0.0.0:6555	-	#####	[Play] [Stop] [Refresh] [Close]
4	v2	Rx	udp	Priyaranjan	:15001	235.6.5.4:15236	-	#####	[Play] [Stop] [Refresh] [Close]
5	v2	Tx	udp	TestingTx_test	235.1.1.1:6000	42.99.180.133:15001	-	#####	[Play] [Stop] [Refresh] [Close]
6	v2	Client	udp	test_hope	4.15.237.237:11114	238.1.1.1:18001	-	#####	[Play] [Stop] [Refresh] [Close]
7	v2	Server	udp	gcptest	235.1.1.1:6000	42.99.180.133:15001	-	#####	[Play] [Stop] [Refresh] [Close]
8	v2	Client	udp	clientTest	42.99.180.133:15001	235.2.3.6:3265	-	#####	[Play] [Stop] [Refresh] [Close]
9	v2	Rx	udp	hubtest	:7109	235.6.5.4:5548	-	#####	[Play] [Stop] [Refresh] [Close]

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3) Preview

The **Preview** tab display you running .ts stream video preview (latest frame preview in which next frame will be updated at every 15 seconds interval).

Refer below screenshot displaying the Recast Stream Preview.

The screenshot displays the RECASTER web interface. At the top, it shows system status: CPU - 0.5% and RAM - 6.1%. The main area is titled 'Channel List' and contains a table with the following data:

SNo	Version	Type	Input Type	Channel Name	Main Source	Destination	Error Port	PassPhrase	Action
1	v2	Server	udp	Testing	238.11.32.5032	0.0.0.0:9001	-	#####	[Play] [Stop] [Refresh] [Settings]
2	v2	Tx	udp	mptsTest	235.12.3.5001	235.3.5.8:5854	-	#####	[Play] [Stop] [Refresh] [Settings]
3	v2	Server	udp	testmpts1234	238.11.87.5057	0.0.0.0:6956	-	#####	[Play] [Stop] [Refresh] [Settings]
4	v2	Rx	udp	Priyaranjan	:15001	235.6.5.4:15236	-	#####	[Play] [Stop] [Refresh] [Settings]

Below the table, there are tabs for 'Recaster Stats', 'N/W Traffic', and 'Preview'. The 'Preview' tab is active, showing a video player with a thumbnail of a scene and a 'Details' panel on the right. The details panel includes:

- General Info**
 - ID: 1 (0x1)
 - Program ID: 1
 - service_name: CINEFLUXHD
 - Format: MPEG-TS
 - Overall bit rate mode: Constant
 - Frame rate: 25.000 FPS
- Video Stream**
 - ID: 1024 (0x400)

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5. Manage Network Settings

By navigating to the **Network** menu in side-bar navigation panel, you can access **N/W Settings** feature where you can manage (add, edit, delete) **networks interface settings** to send and receive video streams through that network interface.

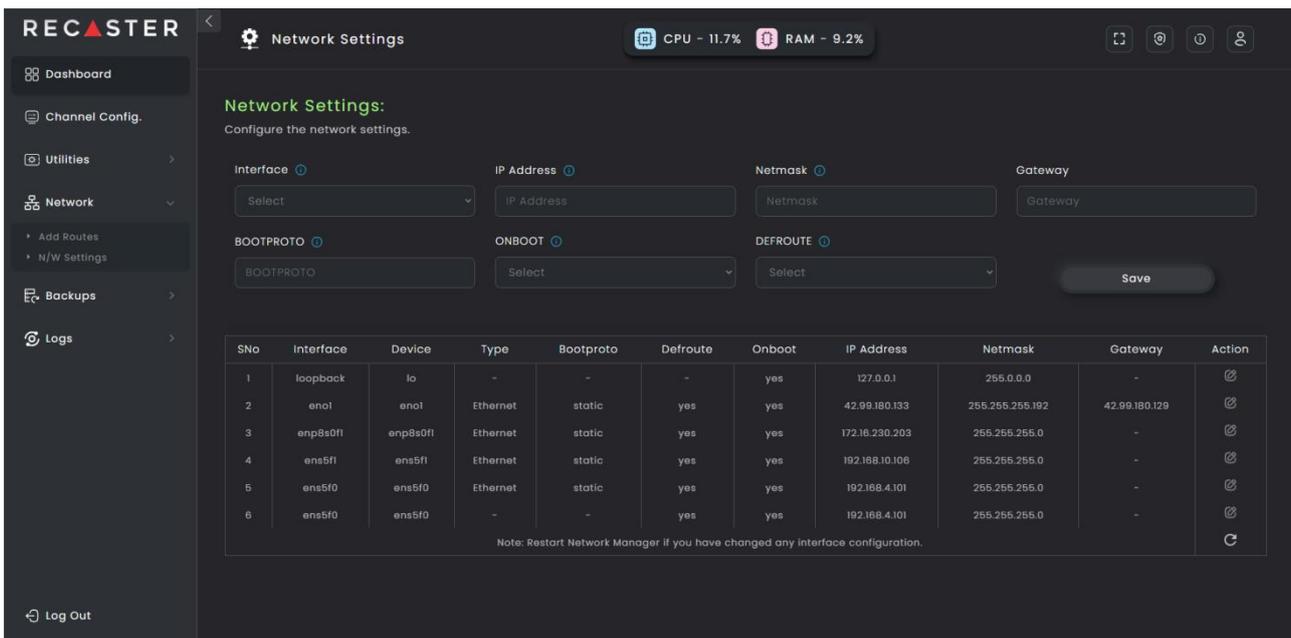
Follow the below process to add network settings:

1. Click the **Network > N/W Settings** menu in side-bar navigation.
2. Select preferred **“Interface”** of your device to configure it for your **.ts stream** output transmission/delivery. (This field will show you list of all the interfaces available on your system)
3. Enter **IP Address, Netmask** and **Gateway** of the stream source.
4. Set **BOOTPROTO** to **STATIC** so that the system will boot up with **Static IP address** assigned to it.
5. Set **ONBOOT** property to **“Yes”**, if you wish to **start this Interface** on System Boot.
6. Set **DEFAULT ROUTE** to **“Yes”**, if you wish to make this **Interface** the **default static route** for further transmission.
7. Click **“Save”** button to save this interface details.

The above process will add the interface for **multicast stream** transmission, and now this interface is ready to send or receive multicast stream. You can see this newly added network in the grid below from where you can easily **edit** it by

clicking the respective **Edit**  icon.

Refer below screenshot displaying the **Network Settings Management** page.



RECASTER Network Settings

CPU - 11.7% RAM - 9.2%

Network Settings:
Configure the network settings.

Interface: Select | IP Address: IP Address | Netmask: Netmask | Gateway: Gateway

BOOTPROTO: BOOTPROTO | ONBOOT: Select | DEFROUTE: Select

Save

SNo	Interface	Device	Type	Bootproto	Defroute	Onboot	IP Address	Netmask	Gateway	Action
1	loopback	lo	-	-	-	yes	127.0.0.1	255.0.0.0	-	
2	eno1	eno1	Ethernet	static	yes	yes	42.99.180.133	255.255.255.192	42.99.180.129	
3	enp8s0f1	enp8s0f1	Ethernet	static	yes	yes	172.18.230.203	255.255.255.0	-	
4	ens5f1	ens5f1	Ethernet	static	yes	yes	192.168.10.106	255.255.255.0	-	
5	ens5f0	ens5f0	Ethernet	static	yes	yes	192.168.4.101	255.255.255.0	-	
6	ens5f0	ens5f0	-	-	yes	yes	192.168.4.101	255.255.255.0	-	

Note: Restart Network Manager if you have changed any interface configuration.

Log Out

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6. Manage Network Routes

By navigating to the **Add Network** under **Network** menu in side-bar navigation panel, you can access **network routes management** feature where you can manage (add, edit, delete) **networks routes** to send and receive video streams within the added network.

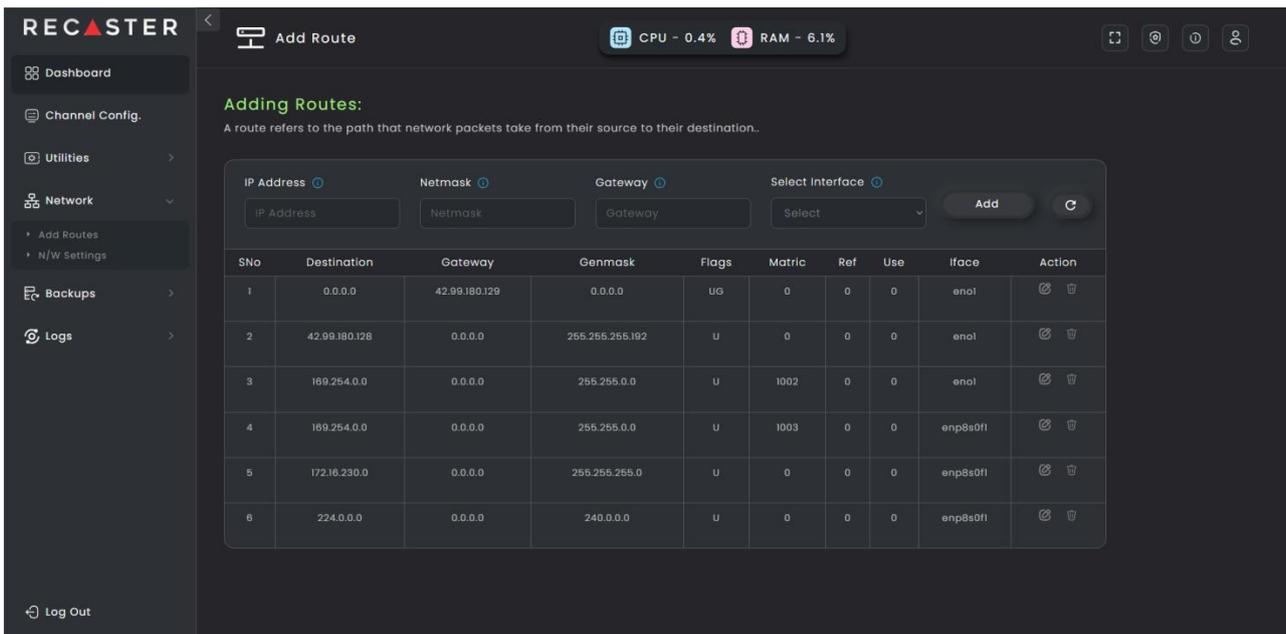
Follow the below process to add network routes:

1. Click the **Network > Add Routes** menu in side-bar navigation. This will open **network routes management window**
2. Enter **IP Address, Netmask** and **Gateway IP**.
3. Select **Network Interface** for stream data routing through the chosen network interface.
4. Click **“Add”** button to add this network route.

The above process will add new network route into the system and now this network route is ready to transmit/receive stream data traffic through this network route.

You can see this newly added network in the grid below from where you can easily **edit** or **delete** it by clicking the respective **Edit**  or **Delete**  icon.

Refer below screenshot displaying the **Network Routes Management** window.



The screenshot displays the 'Add Route' window in the RECASTER interface. At the top, it shows system status: CPU - 0.4% and RAM - 6.1%. The main content area is titled 'Adding Routes:' and includes a descriptive note: 'A route refers to the path that network packets take from their source to their destination.' Below this is a form with four input fields: 'IP Address', 'Netmask', 'Gateway', and 'Select Interface'. An 'Add' button and a refresh icon are also present. A table below the form lists existing routes with columns for SNo, Destination, Gateway, Genmask, Flags, Metric, Ref, Use, Iface, and Action. The table contains six rows of route data.

SNo	Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface	Action
1	0.0.0.0	42.99.180.129	0.0.0.0	UG	0	0	0	enol	 
2	42.99.180.128	0.0.0.0	255.255.255.192	U	0	0	0	enol	 
3	169.254.0.0	0.0.0.0	255.255.0.0	U	1002	0	0	enol	 
4	169.254.0.0	0.0.0.0	255.255.0.0	U	1003	0	0	enp8s0f1	 
5	172.16.230.0	0.0.0.0	255.255.255.0	U	0	0	0	enp8s0f1	 
6	224.0.0.0	0.0.0.0	240.0.0.0	U	0	0	0	enp8s0f1	 

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7. Accessing utilities

The Utilities menu in side-bar navigation will provide you access:

- 1) **MTR Utility** to diagnose the network
- 2) **Feed Analyzer** to analyze the input stream data packets
- 3) **Disk Usage Statistics**
- 4) **System Info** which includes the system hardware specifications

Let's one-by-one get into the details of each utility section.

7.1. MTR

By navigating to the **MTR** under **Utilities** menu in side-bar navigation panel, you can access the **MTR** utility through which you can easily diagnose the network and analyze the network traffic hop-to-hop to identify the problem in network route

Follow the below process to diagnose or analyze the network connection:

1. Click the **Utilities > MTR** menu in side-bar navigation. This will open a blank **MTR utility** window.
2. Enter **IP address** of the network that you want to diagnose.
3. Provide **Interval** at which the ping/echo request will be sent. This is the duration between each ping test.
4. Choose a **Counter** to send the specified number of pings.
5. **Toggle On** the "DNS" if you want to display both the **Hostname** and **IP address**. Keep "DNS" **Toggle Off** to display only the **IP address**.
6. Finally, click "**Start**" button.

Just wait for a short while, and it will evaluate and display you the complete status of your network connection.

Refer below screenshot displaying the **MTR** Utility window.



The screenshot shows the RECASTER MTR Report interface. The top navigation bar includes the RECASTER logo, a back arrow, the title 'MTR Report', and system status indicators for CPU (0.4%) and RAM (6.1%). The left sidebar contains navigation options: Dashboard, Channel Config, Utilities (with MTR selected), Network, Backups, and Logs. The main content area features a heading 'Unveiling the Symphony of Connectivity:' and a sub-heading 'MTR, where every hop in the network is a note, and the melody is the seamless flow of data through the intricate web of servers and routers.' Below this is a form with fields for IP Address (8.8.8.8), Interval (5), Counter (Counter-1), and a DNS toggle switch. A 'Start' button is also present. The results are displayed in a table with the following data:

S.No	Hosts	Loss%	Snt	Last	Avg	Best	Wrst	StDev
1	103.89.136.1	0.0%	5	0.6	0.7	0.5	1.3	0.0
2	42.99.178.9	0.0%	5	1.9	2.1	1.9	2.4	0.0
3	202.47.214.229	0.0%	5	32.8	32.8	32.7	33.0	0.0
4	202.47.212.93	0.0%	5	49.0	48.9	48.8	49.0	0.0
5	121.240.243.241	0.0%	5	35.8	35.6	35.3	36.0	0.0
6	121.240.1.42	0.0%	5	89.6	89.7	89.5	90.2	0.0
7	142.251.225.67	0.0%	5	86.5	86.6	86.3	87.2	0.0
8	216.239.47.149	0.0%	5	89.3	89.2	89.0	89.3	0.0
9	8.8.8.8	0.0%	5	87.0	87.0	86.9	87.1	0.0

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7.2. Feed Analyzer

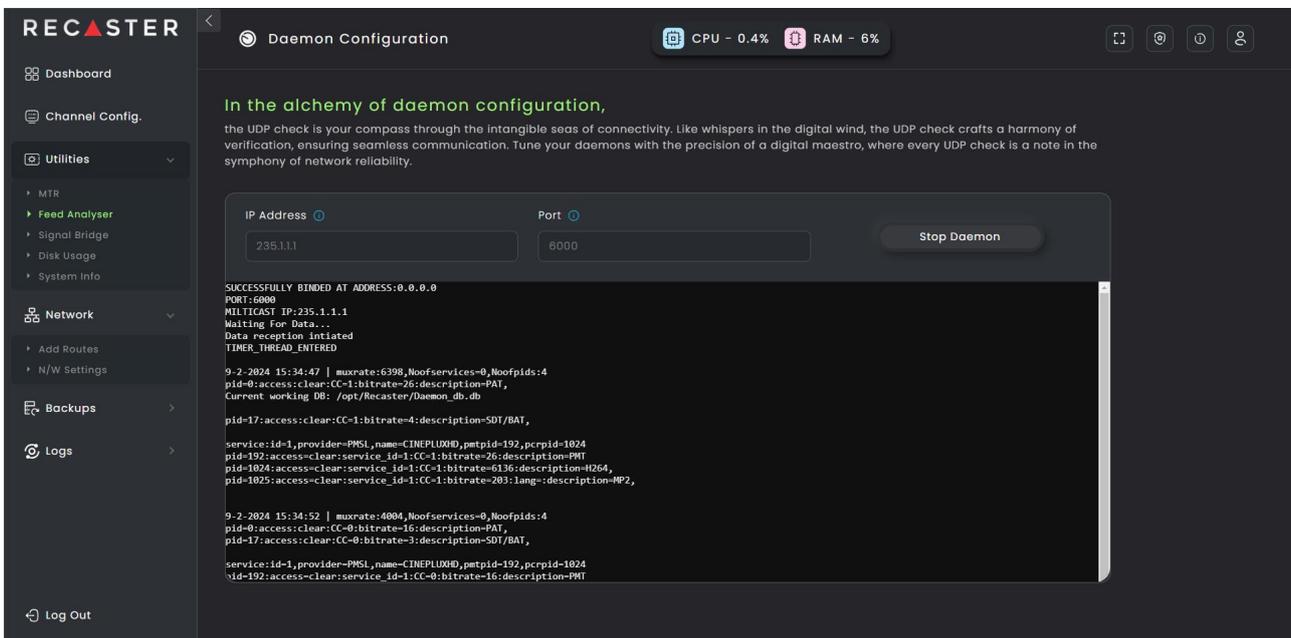
By navigating to the **Feed Analyzer** under **Utilities** menu in side-bar navigation panel, you can access the **Stream Analyzer utility** through which you can analyze the **multicast .ts input stream data packets** which is being received on RECASTER.

Follow the below process to analyze the multicast input stream packets:

1. Click the **Utilities > Feed Analyzer** menu in side-bar navigation. This will open **Feed Analyzer** window.
2. Enter **IP address** of the input multicast stream that you want to analyze.
3. Enter **Port** through which the stream data is being received.
4. Click **“Check Daemon”** button.

Just wait for a short while, and it will bring you the complete stats of your input multicast .ts stream data.

Refer below screenshot displaying the **Feed Analyzer** Utility window.



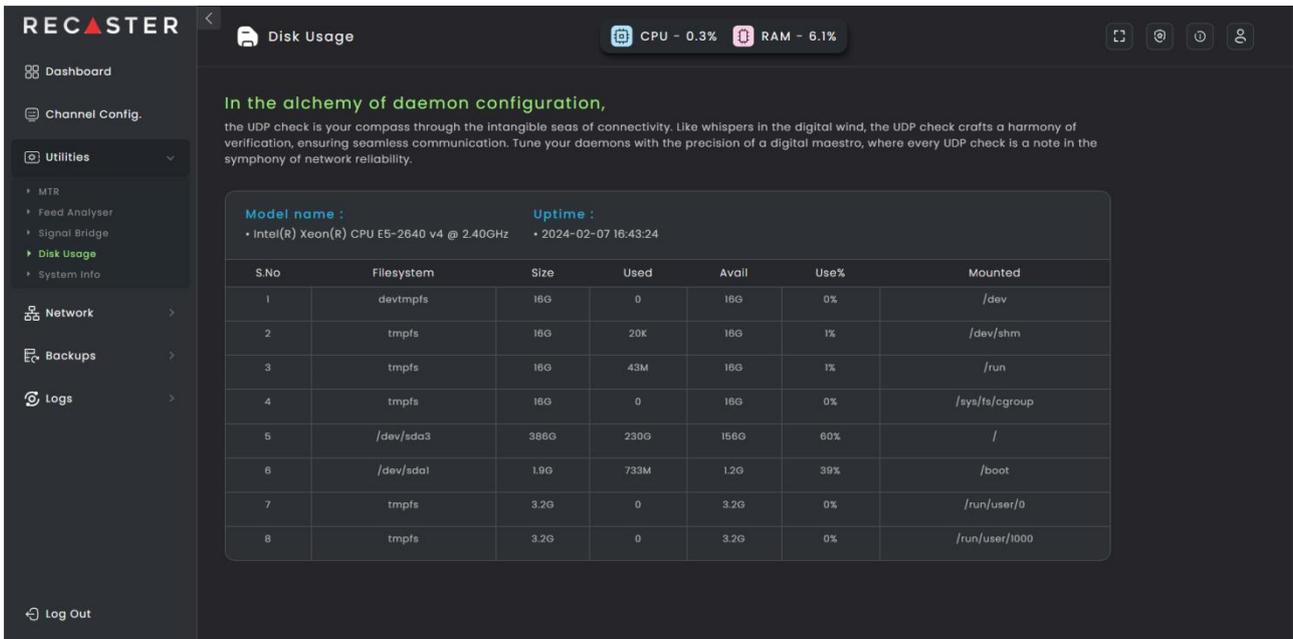
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7.3. Disk Usage

By navigating to the **Disk Usage** under **Utilities** menu in side-bar navigation panel, you can access the **Disk Space utilization statistics** where you will see the real-time information of the disk storage space utilization information. This will be very helpful for you to manage the disk space for your seamless Recast operations, and avoid any issues that may occur due to low disk space.

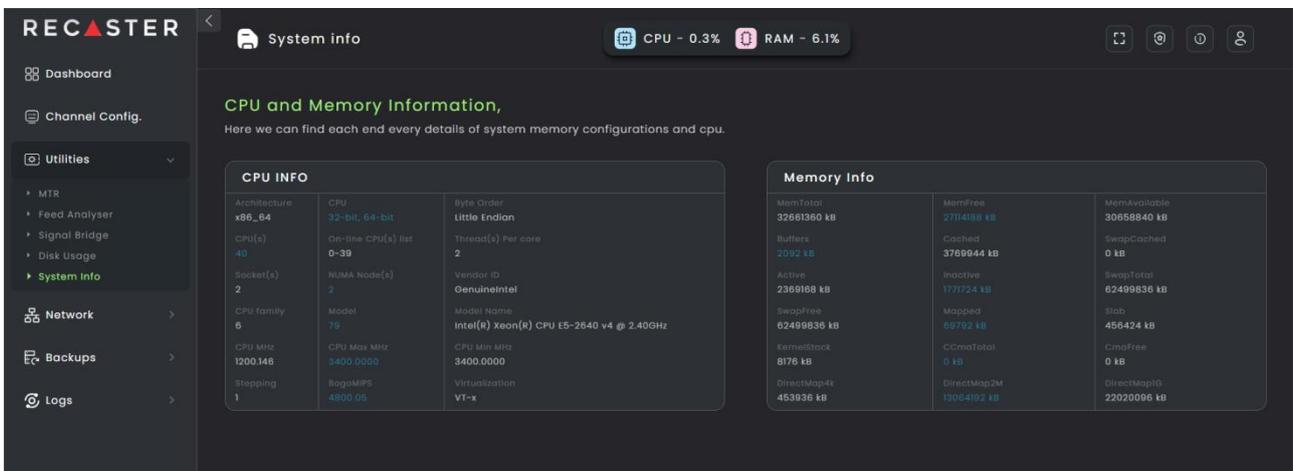
Refer below screenshot displaying the real-time Disk Usage statistics of the RECASTER system.



7.4. System Info

By navigating to the **System Info** under **Utilities** menu in side-bar navigation panel, you can access the **System Info** page where you will see the complete hardware specification details of your RECASTER system. This includes the CPU Information and the Memory Information of the system where RECASTER is running.

Refer below screenshot displaying the real-time information of the RECASTER system hardware.



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8. Backup

By navigating to the **Backup** menu in side-bar navigation panel, you can access the features to **import or export** RECASTER Backup. The Backup feature is a very useful feature of RECASTER UI that helps the playout operations team to quickly restore the RECASTER with last saved backup in case of technical failure or system crash.

The Backup and Restore processes are explained below:

8.1. Import Channels

The **Import Channels** under **Backup** menu in side-bar navigation panel allows you to import the last saved backup of your RECASTER configurations to restore the RECASTER with last running configuration with respect to the backup imported.

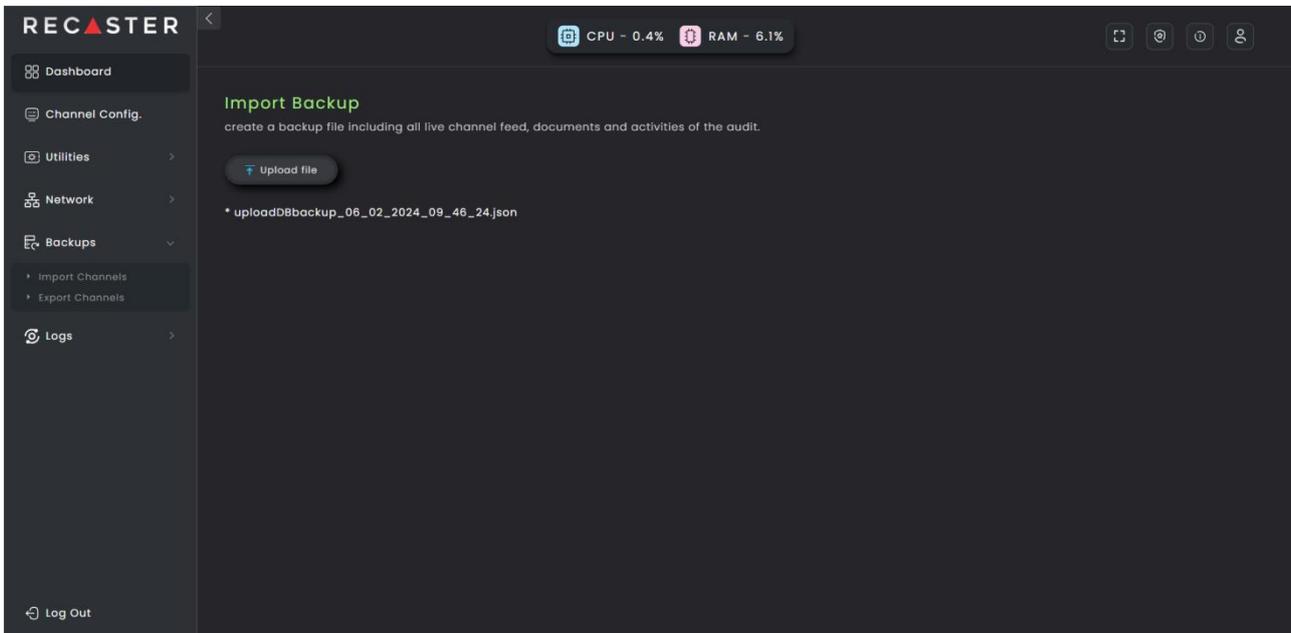
RECASTER can be restored with an internally saved configuration backup or with an externally saved backup file.

Below processes are illustrating the same:

1. Click the **Backup > Import Channels** menu in side-bar navigation. This will open **Import Backup** page with a list of all the backups saved by you, and an **“Upload file”** button to upload backup file from your local drive.
2. **To import internally saved backup**, just click over a listed backup record, if you wish to restore the internally saved backup. Click **“Ok”** when prompted to Import Data.
3. **To import backup from local drive**, click the **“Upload File”**  button, browse and select the backup file from your local drive path to upload.

The above process will immediately import the chosen backup to the current RECASTER configuration.

Refer below screenshot displaying the same.

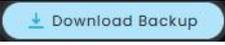


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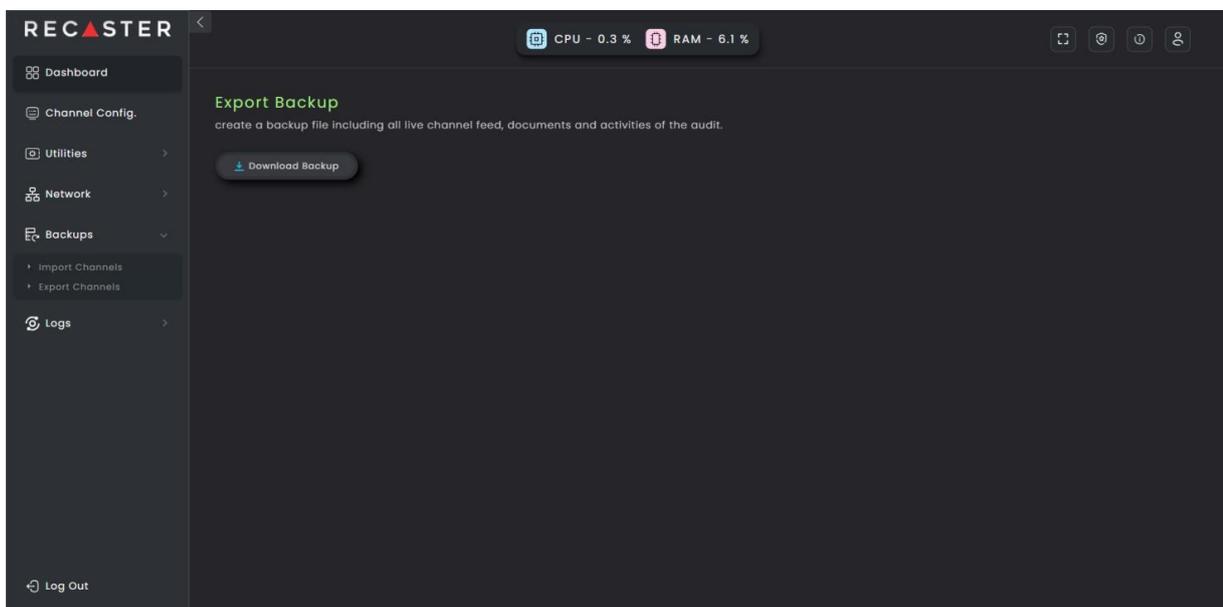
8.2. Export Channels

The **Export Channels** under **Backup** menu in side-bar navigation panel allows you to save backup or export the backup of your RECASTER configurations so that it can be imported to restore the RECASTER with this configuration whenever required.

1. Click the **Backup > Export Channels** menu in side-bar navigation. This will open **Export Backup** page with a **“Download Backup”** button to download/export the current running RECASTER Configuration.
2. Click the **Download Backup**  button.

The above process will immediately export the current active RECASTER configuration on RECASTER UI path. This backup file can be seen on the **“Import Backup”** page.

Refer below screenshot displaying the same.



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9. Manage Users

RECASTER application allows the super admin user to add new users to work on RECASTER application according to their user level permissions. RECASTER allows adding 3 types of users:

- 1) **Super Admin User:** Super Admin user is having all the rights to add, edit, delete users, channel configurations, and perform actions such as Start, Stop Channels.
- 2) **Operator:** This type of user can Start, Stop Channels, view Channel Configurations, and add, edit, delete Operator level and Hub level users.
- 3) **Hub:** This type of user can have only the view rights on and are not allowed to perform any actions on RECASTER application.

Note:

✦ *Only the Super Admin user and Operator can add users.*

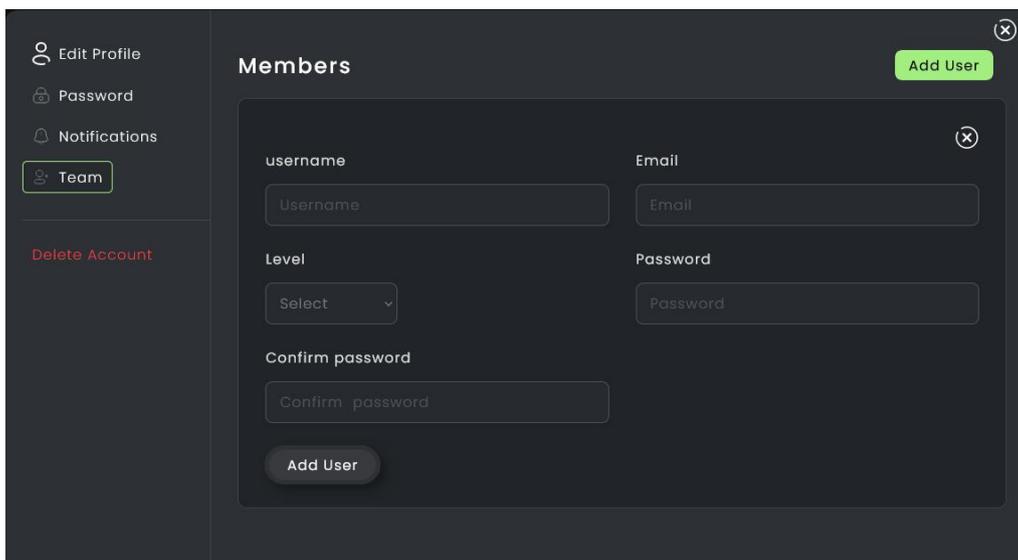
Follow the below process to **add new user**.

1. Click the **User Login**  icon provided in header on right-top corner. This will open **Profile** and **Team Management** window.
2. Click **“Team”** tab provided on left-side.
3. Click **“Add User”** button provided on right-top corner. This will open User details window.
4. Enter **Username, Email, Password** for the new user.
5. Select **User Level** i.e either **Super Admin, Operator,** or **Hub** as per user profile.
6. Enter **Password & Confirm Password**.
7. Click **“Add User”** button.

The above process will add new user into the system and now this user can work on RECASTER application according to the default permissions assigned to his/her User Level.

This user will appear listed on **“Team”** page where Super Admin user can delete this user by clicking the **“Delete button”** button provided for that particular user.

Refer below screenshot displaying the **Add User** window.



The screenshot displays the 'Members' management interface. On the left sidebar, the 'Team' tab is active. The main content area is titled 'Members' and contains a form for adding a new user. The form fields are: 'username' (text input), 'Email' (text input), 'Level' (dropdown menu with 'Select' as the current value), 'Password' (text input), and 'Confirm password' (text input). A green 'Add User' button is located at the bottom of the form. In the top right corner of the form area, there is a green 'Add User' button and a close icon (X).

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10. Set User Level Access Permissions

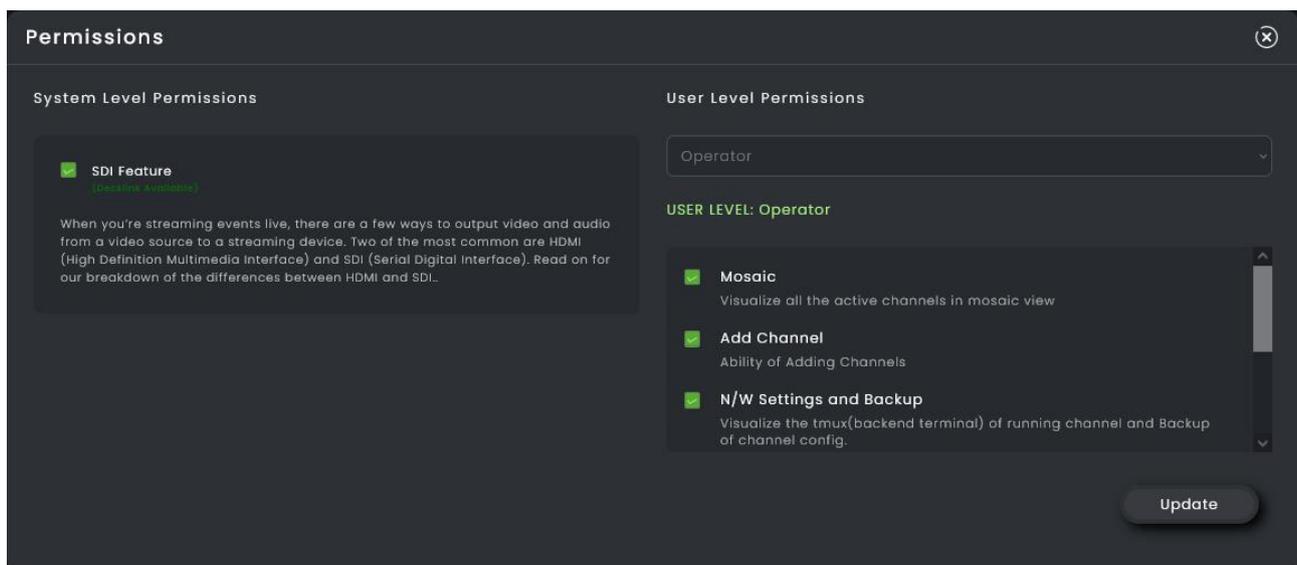
RECASTER UI allows the super admin user to set user level permissions to provide only the assigned feature/module access to respective user level.

Follow the below process to set user level access permissions:

1. Click the **Permissions**  icon provided in header just adjacent to **Full Screen View** icon. This will open **Permissions Management** window.
2. First select the **User Level** i.e **Operator** or **Hub** from drop-down whose access permissions you wish to set for accessing the allowed feature and perform allowed operations on RECASTER UI.
3. Go to “**System Level Permissions**” and just check the “**SDI feature**” as per requirement to enable SDI feature for the above chosen user level.
4. Next, go to the **User Level permissions** and check the features such as **Mosaic, Add Channel, N/W Settings and Backup, Daemon, and Scan IP** as per requirement to assign permissions for performing the chosen operation to this user level.
5. Click “**Update**” button to save apply the user level permissions to respective users.

The above process will apply the allowed permissions on user level accounts to provide access to only the permitted features and operations.

Refer below screenshot displaying the User level Permissions window.



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11. Logs

RECASTER UI provide you access to different logs such as **Action Logs**, **Error Logs**, **Server Logs**, **Reboot Logs**, and **Services Logs**.

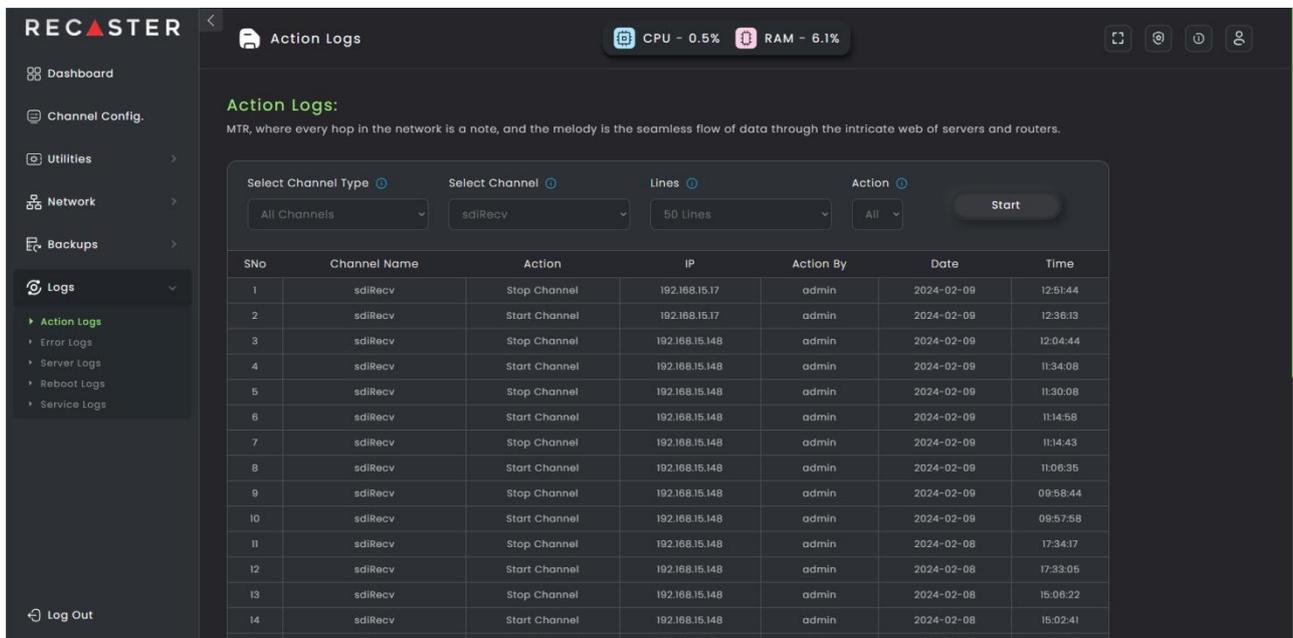
By navigating to the respective Logs menu in side-bar navigation panel, you can view logs related to that specific log category.

11.1. View Action Logs

By navigating to the **Action Logs** under **Logs** menu in side-bar navigation panel, you can access and view logs related to the actions performed by user on RECASTER UI.

With advanced filter options you can filter logs for **All Channels**, **Running** or **Available** channels, specific Channel, **Log counts**, and **Actions** such as **Channel Create**, **Channel Start**, **Channel Stop**, **Channel Update** and **Channel Delete**.

Refer below screenshot displaying the **Action Logs** window.



SNo	Channel Name	Action	IP	Action By	Date	Time
1	sdiRecv	Stop Channel	192.168.15.17	admin	2024-02-09	12:51:44
2	sdiRecv	Start Channel	192.168.15.17	admin	2024-02-09	12:36:13
3	sdiRecv	Stop Channel	192.168.15.148	admin	2024-02-09	12:04:44
4	sdiRecv	Start Channel	192.168.15.148	admin	2024-02-09	11:34:08
5	sdiRecv	Stop Channel	192.168.15.148	admin	2024-02-09	11:30:08
6	sdiRecv	Start Channel	192.168.15.148	admin	2024-02-09	11:14:58
7	sdiRecv	Stop Channel	192.168.15.148	admin	2024-02-09	11:14:43
8	sdiRecv	Start Channel	192.168.15.148	admin	2024-02-09	11:06:35
9	sdiRecv	Stop Channel	192.168.15.148	admin	2024-02-09	09:58:44
10	sdiRecv	Start Channel	192.168.15.148	admin	2024-02-09	09:57:58
11	sdiRecv	Stop Channel	192.168.15.148	admin	2024-02-08	17:34:17
12	sdiRecv	Start Channel	192.168.15.148	admin	2024-02-08	17:33:05
13	sdiRecv	Stop Channel	192.168.15.148	admin	2024-02-08	15:08:22
14	sdiRecv	Start Channel	192.168.15.148	admin	2024-02-08	15:02:41

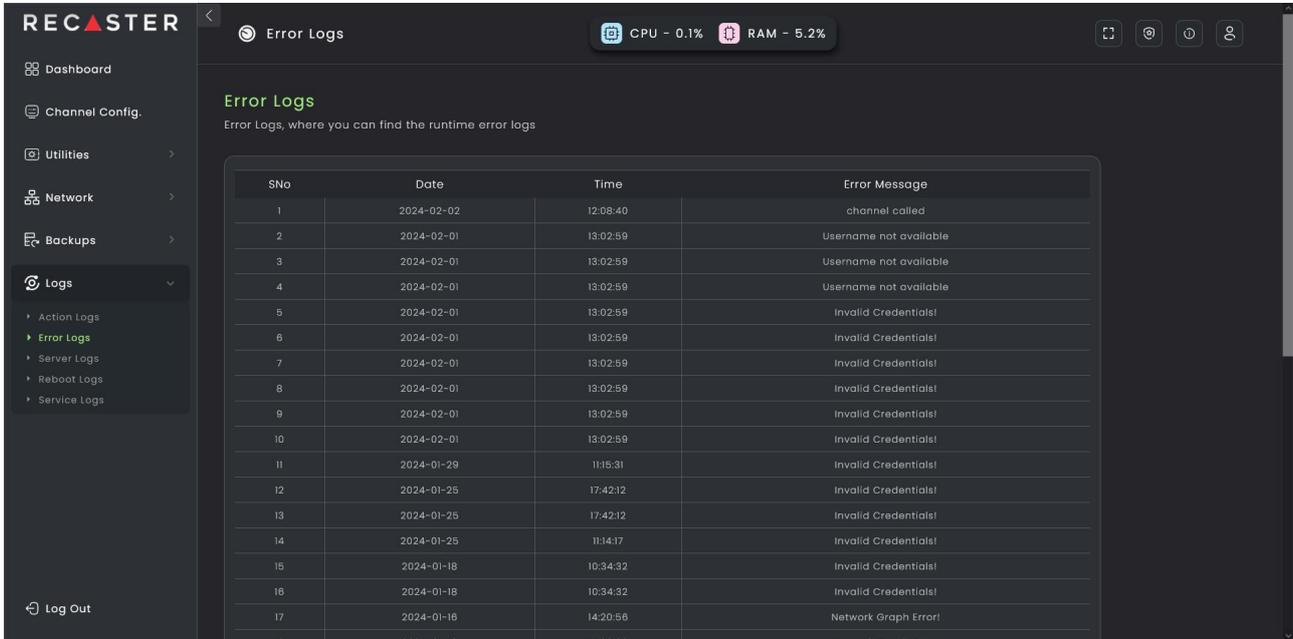
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11.2. View Error Logs

By navigating to the **Error Logs** under **Logs** menu in side-bar navigation panel, you can access and view logs related to the error encountered in RECASTER UI.

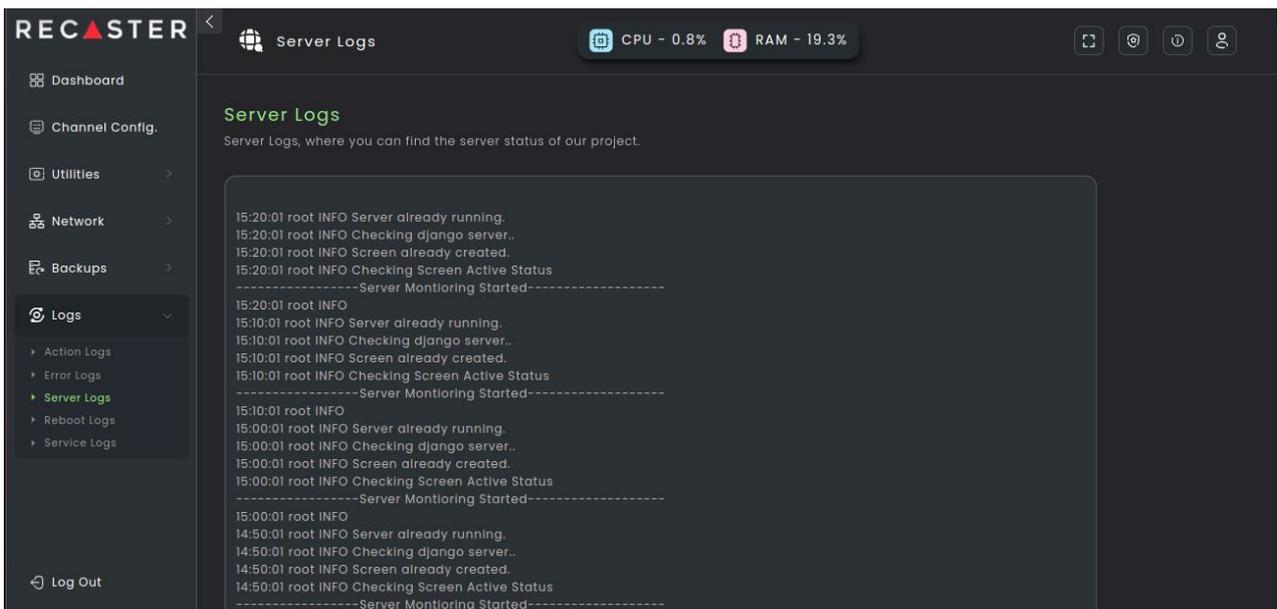
Refer below screenshot displaying the **Error Logs** window.



11.3. View Server Logs

By navigating to the **Server Logs** under **Logs** menu in side-bar navigation panel, you can access and view logs related to the RECASTER UI server.

Refer below screenshot displaying the **Server Logs** window.



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11.4. View Reboot Logs

By navigating to the **Reboot Logs** under **Logs** menu in side-bar navigation panel, you can access and view logs related to the RECASTER system reboot.

11.5. View Service Logs

By navigating to the **Service Logs** under **Logs** menu in side-bar navigation panel, you can access and view logs related to the Channel Recast services running in RECASTER UI.

It allows user to choose a specific channel from drop-down to access and filter logs of the chosen channel service. It further allows you to export the service logs in **.csv** format on your local workstation.

Refer below screenshot displaying the Service Logs window.

The screenshot shows the RECASTER interface with the 'Service Logs' window open. The left sidebar contains navigation options: Dashboard, Channel Config., Utilities, Network, Backups, and Logs. The 'Logs' section is expanded to show 'Service Logs'. The main area displays a table of log entries for the channel 'sdlRecv'. The table has columns for Sr No, Date, Time, RTT (msec), Bandwidth, Max bandwidth, and Send. The 'Send' column is further detailed with sub-columns for Pockets (Unique, Lost, Dropped, Retransmitted) and Bytes (bytes, bytesDropped, mbitRate). An 'Export Excel' button is visible above the table, and a 'Clear Log' button is in the top right corner. System status indicators show CPU at 0.4% and RAM at 6.1%.

Sr No	Date	Time	RTT (msec)	Bandwidth	Max bandwidth	Send							
						Pockets			Bytes				
						Unique	Lost	Dropped	Retransmitted	bytes	bytesDropped	mbitRate	
259	2024-02-09	12:38 PM	41.744	2833.33	1000	2004	2003	1	0	1	2725440	0	7.23838
260	2024-02-09	12:38 PM	98.197	967.404	1000	2013	2003	10	0	10	2737880	0	7.27052
261	2024-02-09	12:38 PM	44.168	1689.09	1000	1999	1997	2	0	2	2718840	0	7.24239
262	2024-02-09	12:38 PM	43.182	2070.84	1000	2000	2000	0	0	0	2720000	0	7.23181
263	2024-02-09	12:38 PM	39.284	2919.25	1000	2018	2000	18	0	18	2744480	0	7.2915
264	2024-02-09	12:38 PM	39.284	2919.25	1000	2018	2000	18	0	18	2744480	0	7.2915
265	2024-02-09	12:37 PM	40.832	738.108	1000	2006	1998	8	0	8	2728160	0	7.25966
266	2024-02-09	12:37 PM	63.52	1709.69	1000	2000	2000	0	0	0	2720000	0	7.24628
267	2024-02-09	12:37 PM	186.282	1218.09	1000	2025	2003	22	0	22	2754000	0	7.31564
268	2024-02-09	12:37 PM	40.123	1702.79	1000	2006	1998	10	0	10	2728160	0	7.24825
269	2024-02-09	12:37 PM	44.368	1774.42	1000	2017	2006	11	0	11	2743120	0	7.28509
270	2024-02-09	12:37 PM	44.368	1774.42	1000	2017	2006	11	0	11	2743120	0	7.28509
271	2024-02-09	12:37 PM	41.124	1226.91	1000	2014	1994	20	0	20	2739040	0	7.29062
272	2024-02-09	12:37 PM	59.971	1916.74	1000	2016	2004	12	0	12	2741760	0	7.29239
273	2024-02-09	12:37 PM	56.479	1830.74	1000	1998	1998	0	0	0	2717280	0	7.22
274	2024-02-09	12:37 PM	49.659	2019.36	1000	2006	2006	0	0	0	2730160	0	7.28043

For any technical query, write to us at recaster-support@planetcast.net
 For professional services/business/sales, write to us at mp-sales@planetcast.net

12. FAQs

1. What is RECASTER?

RECASTER is a service that enables the transmission of TS (Transport Stream) feeds from one point to another or multiple points. It provides a dashboard for monitoring the entire ecosystem, including services, system resource usage, network graphs, alarms, and more.

2. What features does the RECASTER dashboard offer?

The dashboard allows you to:

- Monitor CPU, RAM, and Disk usage.
- View system load statistics.
- Track the number of services created, running, and stopped.
- Analyze network graphs and system alarms.
- Monitor Ethernet connectivity status.
- Check uptime details.

3. How can I configure channels in RECASTER?

The Channel Configuration page lets you set up transmission (TX) and reception (RX) services, define server and client roles, and use SRT (Secure Reliable Transport) or RIST (Reliable Internet Stream Transport) protocols. Version 2 supports SRT, while Version 3 supports RIST.

4. What tools are available on the Utilities page?

The Utilities page includes tools like MTR (My Traceroute) to check connectivity between systems and detect packet drops, ensuring stable transmission paths.

5. How can I manage my network settings in RECASTER?

The Network Configuration page allows users to:

- Manage network interfaces.
- Configure routing details.
- Optimize data flow for efficient TS feed transmission.

6. How does the backup feature work?

The Backup page enables users to:

- Take backups of services.
- Deploy all services from one system to another without manually adding each channel.
- Ensure smooth migration and disaster recovery.

7. How can I monitor system logs?

The Logs page provides detailed system logs, including:

- Packet loss monitoring.
- Service activity records.
- Error and system event logs for troubleshooting.

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8. What protocols does RECASTER support?

RECASTER supports:

- SRT (Secure Reliable Transport): Ensures secure and reliable low-latency video transport.
- RIST (Reliable Internet Stream Transport): Designed for efficient and high-quality video streaming over the internet.

9. Can I use RECASTER for multi-point transmission?

Yes, RECASTER allows you to send TS feeds to multiple points, ensuring efficient content distribution to multiple destinations.

10. How can I troubleshoot connectivity issues?

Use the Utilities page to run MTR tests and diagnose network issues, packet loss, and latency problems affecting transmission performance.

11. Where can I find support for RECASTER?

For technical support and assistance, please refer to the documentation, contact our support team, or access logs for troubleshooting information, or write to us at recaster-support@planetcast.net

12. How can I verify my feed is working correctly?

Thumbnails can be viewed by clicking on the channel list. This feature allows users to ensure that their feed is correct and functioning properly, providing confidence monitoring.

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13. Glossary

UDP

User Datagram Protocol is a communication used to transfer data packets over the internet in a connectionless mode that is there is no handshaking/acknowledgment mechanism.

SRT

Secure Reliable Transport is an open source network protocol to transfer data from one place to another/ multipoints with a formal handshaking/ acknowledgment mechanism.

ENCRYPTED SRT

The SRT protocol is encrypted using a passkey at source and the same passkey is used to decrypt the signal at destination.

RIST

Reliable Internet Stream Transport is a communication protocol to transfer data from point to point/multipoint within a limited bandwidth or lossy networks.

RTP

Real Time Transport Protocol that transmits audio and video over IP networks used for streaming media, telephony, and videoconferencing.

RECASTER

Software to transfer a stream from point to point or multipoints globally using public internet, can be deployed over public cloud or on prem environments.



PROFESSIONAL SERVICES

We have dedicated team of Media Solution Architects who can help improve your media workflows using tool like RECASTER. If you are interested get in touch at mp-sales@planetcast.net

TECHNICAL SUPPORT

For any technical assistance, contact to recaster-support@planetcast.net

END OF DOCUMENT

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