



## Session UI for Streambox® Chroma™

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## History

#### Session UI RC2 12-21-23 (SBUIAPP v1.21)

- Shortcut from Rackmount Web UI to Session UI added

- Improved Server connect diagnostics

#### Session UI RC1 12-06-23 (SBUIAPP v1.20)

- Support for Streambox Server

- Security Authentication with Chroma RestAPI

- Support for Streambox broker Sessions

- Email improvements and security

#### Session UI beta #4, 02-19-23 (SBUIAPP v1.13)

- Added ability to disable Session buttons

- Bug fixes: switching between tabs

- Improvements to Edit templates

#### Session UI beta #3, 02-02-23 (SBUIAPP v1.10)

- Support for system wide default template

- Support for Advanced Sessions settings ( Color, Network, Chat)

- Support for Multi-enocoder and multi-host templates and apps.

#### Session UI beta #2, 01-04-23 (SBUIAPP v1.06)

- Rest API 19, Fixed Preset issue, Increased security

- Video for the demo was updated

#### Session UI beta #1, 12-17-22 initial beta release

# 1. Intro

Please see video overview:

[https://streambox-react-templates-app.s3.us-west-2.amazonaws.com/Chroma+UI+2024+\(RC4\).mp4](https://streambox-react-templates-app.s3.us-west-2.amazonaws.com/Chroma+UI+2024+(RC4).mp4)

## 2. System Requirements

- Chroma X or Chroma 4K in Encoder mode
- Prerequisites:
  - Chroma s/w version 1.2.2
  - Chroma s/w version 2023.9 - recommended
- You can contact [support@streambox.com](mailto:support@streambox.com) to assist with installation
- You will need ssh access to your Chroma to install.
- Instructions in “Green boxes” below assume that you have successfully logged into your Chroma box via an ssh terminal

## 3. Uninstalling Previous Beta Version

If a beta version is installed, we recommend performing a clean uninstall.

Note: You can skip `rm -rf /var/local/WebData/*` to preserve user generated templates and logos.

```
rm -rf /var/local/WebData/* ;  
dpkg --purge streambox-react-webui ;
```

## 4. Installing Current Version

**NOTE: REBOOT system or restart encoder manually after updates.**

```
cd /tmp ;  
sbver=React-23-12-21 ;  
wget https://streambox-react-templates-app.s3-us-west-2.amazonaws.com/$sbver.tar.gz ;  
tar xvf $sbver.tar.gz -C ./ $sbver ;  
cd $sbver ;  
dpkg -i *.deb ;  
chown -R www-data:www-data /var/www/data/  
chown -R www-data:www-data /var/local/WebData/templates/
```

Optional to install 12Mbps and 6 Mbps Session Presets, continue from script above:

```
sh presets/imp ;
```

\* backup presets are saved in `/var/lib/avenir/conf/userpresets.xml.session_backup`

## 5. Accessing New Session UI

To enter this Session's interface from the standard Info page, click the "Open Session Interface" button.

Note: Session web interface access is using the same credentials as rackmount UI.

### For direct access to Session UI:

<http://<ip.address>/sbuiapp/>

\* Use IP address of Chroma device (<ip.address>). The access device and Chroma device must both be on the same network.

Note 1: With each new release, you need to clear the past data from your browser cache

Note 2: Connecting to a local unit is done over an HTTP connection (versus HTTPS) which may be blocked depending on your browser settings. In most cases, entering the entire address starting with 'http://' will resolve this issue.

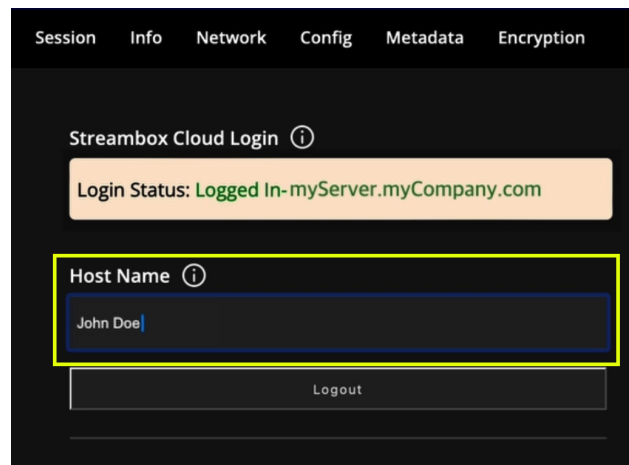
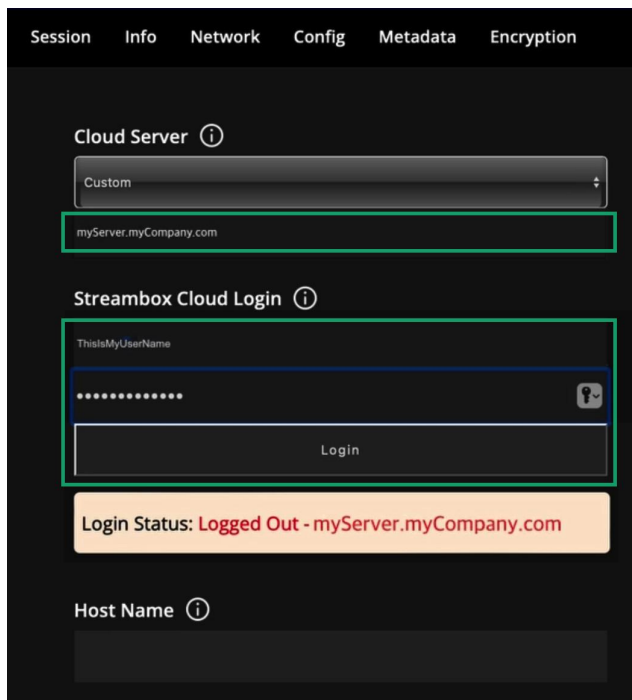
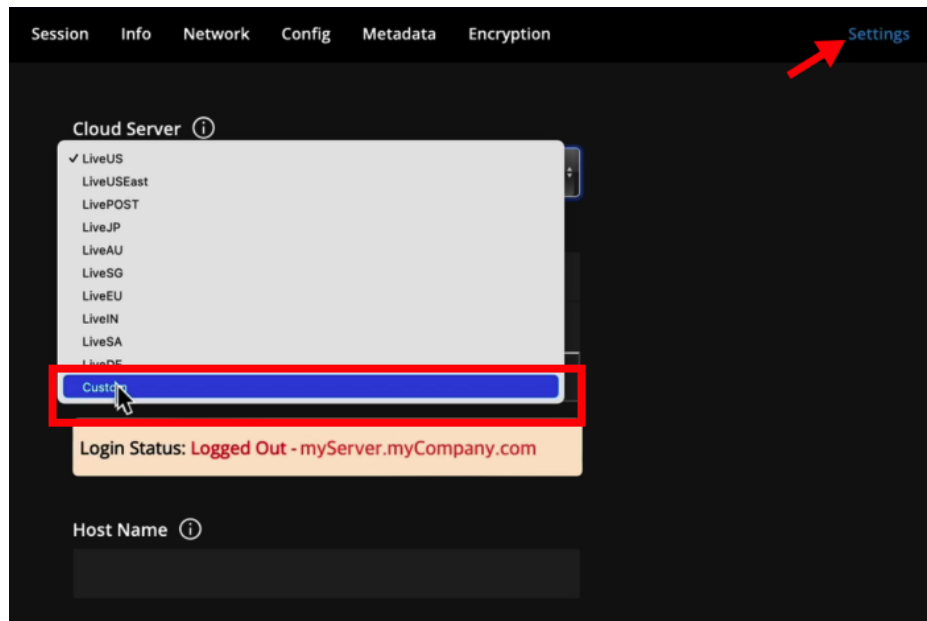
The screenshot displays the Streambox Chroma web interface. The top navigation bar includes links for Info, Network, Config, Metadata, Accounts, Encryption, Source, System, Features, and Log. The main content area is divided into several sections:

- Video:** Features a video player showing a test pattern. Below the player, there are controls for 'Preview Update' (Off, High, Med, Low, Spot, Annotate) and a list of video parameters: Source video format: 1080i60, Video Resolution: 1920x1080i, Color Profile: 4:2:2 10b Unknown, Bitrate: 0bps, Quality (current/avg): 0/0, Dropped Capture Frames: 0, Dropped Encoder Frames: 0, SSI errors: 0, Frame Delay: 3, Frame Rate: FULL FPS, DolbyVision: Off, Watermark: Off.
- Network:** Displays network statistics: Encoder IP: 10.0.0.21, Decoder IP: 52.25.129.48, Packet Size (MTU): 1392, Shuffle: 0, Buffer: 0%, Bytes: OK, Packets Sent: 0, Transmission: LDMP.
- Streaming:** Contains a green button labeled 'START Streaming'.
- Sessions:** Includes a button labeled 'Open Session Interface'.
- LDMP State:** A table showing the current state of the LDMP connection.

State	Name	IP	Byte sent	#pkts	Bitrate (Kbps)	Resent	RTT Cur	RTT Peak	RTT Avg	CWND Act	CWND Min	CWND Max
ONLINE	eth0	10.0.0.21	349071278021	297655274	2751	225363514 (75.7%)	24	100	25	100	100	100

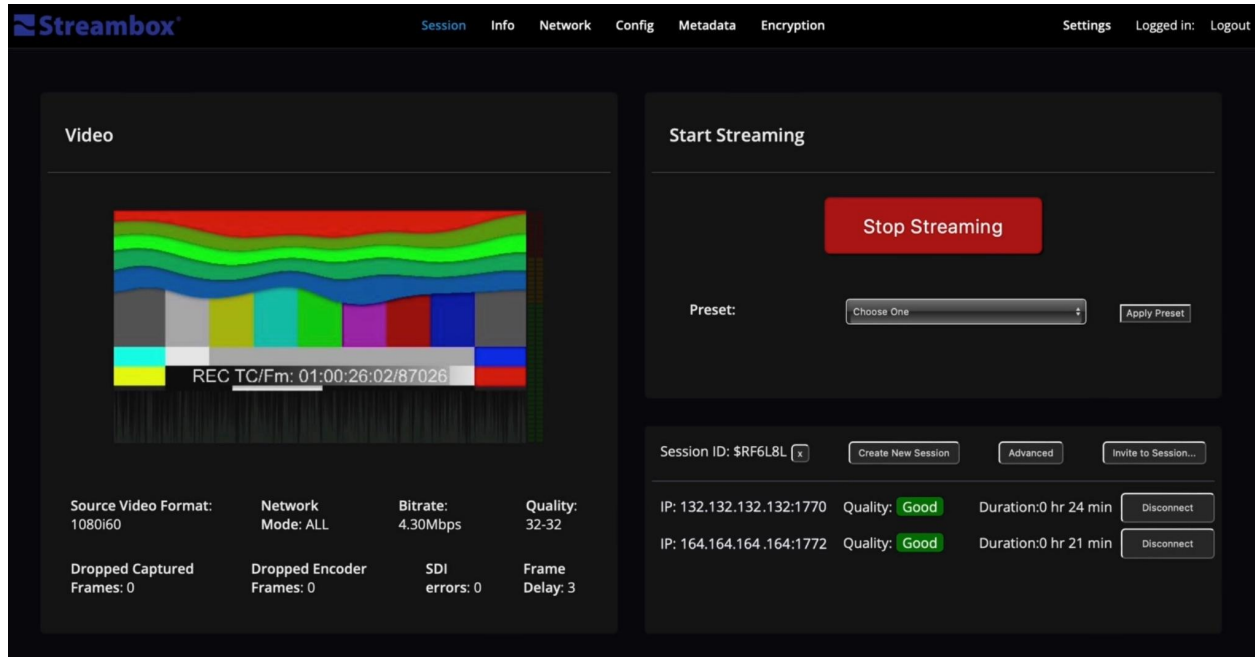
## 6. Setting up Streambox Cloud Server Login

- Login with the same credentials for your hardware device
- From the Settings tab (top, red arrow)
  - Select the desired Cloud Server (closest to your region) or select "Custom" server (top, red outline) and specify DNS name for private Streambox Server (left, green outline)
  - Then "Login" with your account name and password (left, green outline).
  - Provide a "Host Name" to identify you as host of the Session (right, yellow outline)



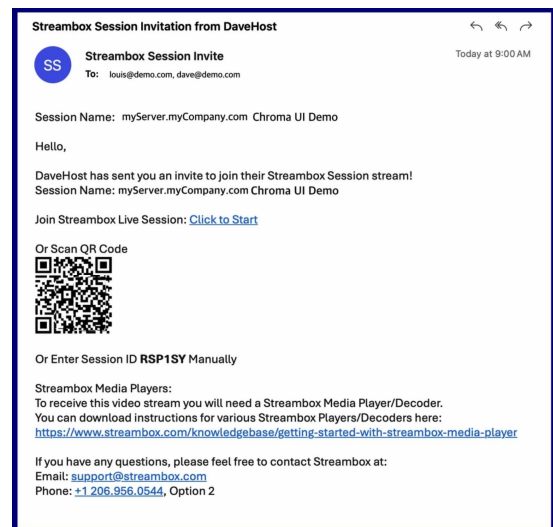
## 7. Using Sessions Workflow

We introduce here the new “Session” tab for an all-in-one-place workflow. That is, you no longer need to login into Chroma and then the server to manage a Session; it's all in one place. Let's take a look...



Open the Session tab. On the left you will see the video preview and video/stream status panel. On the right panel, you will find the Start/Stop Streaming button and Preset Selection and Apply button. And, below that you will find the Sessions Dashboard.

1. A good way to get started is to have your video running. It should appear in the video preview. Now's a good time to select a Preset for the output stream.
2. When needed, you can open the Advanced dialog (button) to set color space, LDMP values, etc.
3. Create a new Session by clicking on the “Create New Session” button. It usually takes less than a minute to show a new Session ID. You will have to give the Session a Title. This is used in the email invitations.
4. Enter a new email address or select from the list. If you enter a new email address, you will have to then select it to be included in the send email list. With each selection, that email is added to the send email list. When your send email list is complete, click the ‘Send Invites’ button. An email with a Session's link



will be sent to each invitee. The Session's link ('Click to Start') will open the Streambox Media Player (if installed) and play the Session.

5. Let's get the Stream started. If it has not been started, a dialog will appear to offer to start the stream for you.
6. Once invitees are connected, they will appear in this Dashboard, identified by their email address, IP address, with connection duration and connection quality.

Note: If you have an encryption set, you must provide the invited reviewers with a matching decryption code.

## 8. Troubleshooting

Feel free to contact Support ([support@streambox.com](mailto:support@streambox.com)) if you get stuck or if you have uncovered a bug we missed. Thank you.

## 9. Errata

Known issues:

- Network tab might incorrectly say UDP when it is actually LDMP when switching between tabs.

## Contact Information

### General Contract

+1 206.956.0544 Tel

+1 206.956.0570 Fax

### Technical Support

[support@streambox.com](mailto:support@streambox.com)

+1 206.956.0544, Option 2

### Sales and Information

[sales@streambox.com](mailto:sales@streambox.com)

+1 206.956.0544, Option 1

50 - 116th Ave. S.E., Suite 112

Bellevue, WA 98004

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