

# BN Studio Streaming Setup & Quick Start Guide

Version 1.0 Bytetronek Inc.

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## Welcome to BN Studio

BN Studio is a cloud-based Software as a Service (SaaS) platform designed for livestreaming, podcasting, creator management, media operations, and independent broadcasting.

BN Studio allows creators, businesses, churches, educational organizations, sports organizations, and media networks to manage livestreaming and media operations from a centralized platform.

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## Supported Streaming Applications

BN Studio supports any RTMP-compatible streaming software including:

• OBS Studio • BN Studio OBS Package • Restream • Meld Studio • StreamYard • Riverside • vMix • Wirecast • Other RTMP-compatible applications

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## Understanding Your Streaming Credentials

Each tenant receives:

### Origin RTMP URL

Used by streaming software to send video into BN Studio.

Example:

`rtmp://your-origin-server/live`

(Your actual RTMP URL is provided within your tenant account.)

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### Origin Stream Key

A unique key assigned to your tenant.

Example:

abcd1234-example-stream-key

Never share your Stream Key publicly.

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## CDN Playback URL

Used by viewers to watch your livestream.

Examples:

<https://live.yourdomain.com>

or

<https://stream.yourdomain.com>

This is the URL shared with viewers.

Do NOT provide viewers with your RTMP URL or Stream Key.

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## Recommended Streaming Settings

BN Studio is optimized around the following standard ingest profile.

### Standard Streaming Profile

Resolution: 1280 × 720 (720p)

Frame Rate: 30 FPS

Video Bitrate: 3000 Kbps (3.0 Mbps)

Audio Bitrate: 128 Kbps AAC

Keyframe Interval: 2 Seconds

Video Encoder: H.264

Audio Encoder: AAC

These settings provide the best balance of:

- Quality • Reliability • Server efficiency • Viewer experience
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## Important Streaming Limits

Sending higher-than-assigned streaming profiles may result in:

- Increased latency • Dropped frames • Stream instability • Excessive server load • Service restrictions

Examples of high-resource profiles include:

- 1080p @ 60 FPS • 6 Mbps Video Bitrate • 8 Mbps Video Bitrate • High-motion sports content
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## Plan-Based Streaming Profiles

### Creator Plan

Recommended:

720p 30 FPS 3 Mbps

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### Network Plan

Higher streaming profiles may be available depending on:

- Subscription level • Infrastructure allocation • Platform capacity

Contact support for higher bitrate or resolution requirements.

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## OBS Studio Setup

### Step 1

Open OBS Studio.

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## Step 2

Navigate to:

Settings → Stream

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## Step 3

Select:

Custom Streaming Server

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## Step 4

Enter:

Server: Origin RTMP URL

Stream Key: Origin Stream Key

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## Step 5

Click:

Apply

Then:

OK

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## Step 6

Press:

Start Streaming

Your livestream should appear on your CDN Playback URL within a few moments.

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# BN Studio OBS Package

Some customers may receive a preconfigured BN Studio OBS package.

This package may include:

- Scene layouts • Stream profiles • Branding templates • Optimized settings

Customers may use either:

- BN Studio OBS Package

or

- Their own OBS installation
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## Restream Setup

### Step 1

Log in to Restream.

### Step 2

Create a Custom RTMP Destination.

### Step 3

Enter:

Origin RTMP URL

Origin Stream Key

### Step 4

Start broadcasting.

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# Meld Studio Setup

## Step 1

Open Meld Studio.

## Step 2

Configure a Custom RTMP Output.

## Step 3

Enter:

Origin RTMP URL

Origin Stream Key

## Step 4

Start streaming.

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# StreamYard Setup

## Step 1

Open StreamYard.

## Step 2

Add a Custom RTMP Destination.

## Step 3

Enter:

Origin RTMP URL

Origin Stream Key

## Step 4

Begin your livestream.

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# Riverside Setup

## Step 1

Open Riverside.

## Step 2

Configure a Custom RTMP Destination.

## Step 3

Enter:

Origin RTMP URL

Origin Stream Key

## Step 4

Start streaming.

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# Sharing Your Livestream

After your stream is active:

Share your CDN Playback URL.

Examples:

`https://live.yourdomain.com`

`https://stream.yourdomain.com`

This URL is designed for viewers and CDN distribution.

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# Media Library

BN Studio allows tenants to:

- Upload media assets
  - Organize content
  - Monitor storage usage
  - Review media health
  - Manage media workflows
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# Billing & Subscriptions

Customers may access:

- Subscription Status
- Billing History
- Payment Methods
- Plan Information

through the Billing section of BN Studio.

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# User Management

Authorized administrators may:

- Create Users
  - Remove Users
  - Assign Roles
  - Manage Access Permissions
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# Troubleshooting

## No Video Appears

Verify:

- RTMP URL is correct
  - Stream Key is correct
  - Streaming software is connected
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## Viewers Cannot Watch

Verify:

- CDN Playback URL is correct
  - Stream is active
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## Authentication Errors

Verify:

- Stream Key matches your tenant
  - No spaces exist in the Stream Key
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## Poor Stream Quality

Verify:

- 720p Resolution
  - 30 FPS
  - 3 Mbps Bitrate
  - Stable Internet Connection
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## Support

Bytetronik Inc.

Website: <https://bytetronik.com>

BN Studio: <https://studio.thebowmannetwork.com>

Support: [support@bytetronik.com](mailto:support@bytetronik.com)

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Thank you for choosing BN Studio.

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