

# Smart Origin - Private Network

runs on **IMDP**

AI powered technology optimized to your needs to protect your origin.

## What it does

It optimizes your streaming workflow with dedicated advanced origin capabilities that directly reduces costs while maintaining delivery stability over your Private Network. When requests for content come to our Smart Origin, our AI sends only one call for the content to your origin. Then, it distributes the content along our network to the servers, without requesting it again from the original source. This essentially eliminates congestion at your origin and guarantees successful content delivery.

Our AI Technology consistently monitors our network and servers to make sure they seamlessly manage all requests for content, and if it senses congestion, it dynamically delivers the content to the server requesting it through a different route.

## Key Features

### AI Powered

Proprietary AI Technology that controls every facet of the delivery workflow for requests made by each server over the network.

### Reduced Costs

Fewer requests to your origin will require less processing and in turn directly decrease the costs related to distributing content over multiple networks.

### Delivery Efficiency

With dedicated capacity and our AI consistently monitoring the network, the Smart Origin predicts and prevents congestion, dynamically distributing content where it is required.



## Application Areas

### Media

Broadcaster  
OTT TV  
Online Media  
Publisher  
eSport  
eGaming

### Telco

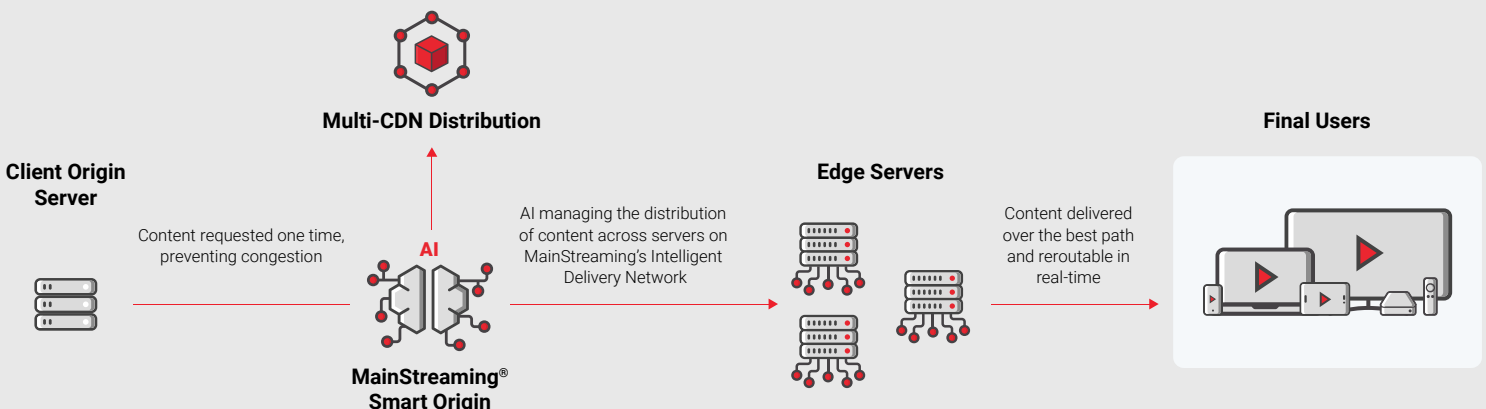
TLC  
ISP  
Data Center

### Enterprise

Finance and Insurance  
Education  
Business Service



## How it Works



# Intelligent Media Delivery Platform (iMDP)

## Complete Technology Specifications and Capabilities Overview

### INPUT (LIVE)

RTMP / RTSP / MPEG-TS

**Native:**

HLS/HSS/MPEG-DASH

CMAF

SRT

Icecast / SHOUTcast

### INPUT (FILE)

.MP4

.MKV

.MOV

.AVI

.MXF

.MPG / .MPEG

.MP3

.AAC

.FLAC

**Legacy:** .FLV/.F4V/.WMV /.RM/.OGG

### HTTP ORIGIN

HTTP/S Pull

### ORIGIN STORAGE

FTP Push

HTTP/S Push

### VIDEO & AUDIO CODECS

**Video:** H.264/H.265/HEVC  
VP9

**Audio:** AAC/AAC+/AAC-HE  
MP3  
AC3 (Dolby 5.1)

### PLAYBACK SUPPORT

**Adaptive Bitrate (ABR):**  
HLS/HSS/MPEG-DASH

**Native:** HLS/HSS/MPEG-DASH/  
Progressive Download

**Icecast** (live only)

**SHOUTcast** (live only)

### TRANSMUXING

**Single Stream** RTMP/RTSP to  
**Single Stream** HLS/HSS/  
MPEG-DASH

**Multiple Stream** RTMP/RTSP to  
**Multiple Stream** HLS/HSS/  
MPEG-DASH

**Customizable Fragmentation**

### TRANSCODING

**Single Stream** RTMP/RTSP to  
**Adaptive Bitrate (ABR)** HLS/  
HSS/MPEG-DASH

### OTHER FEATURES

**Ultra-fast On-Demand Encoding**

**Encoding Profile Creation**

**Live Transcoding**

**DVR and Live Recording**

**Playlist Creation:**

Linear & Non-Linear

**Social Media Sharing and  
Restreaming**

**Customizable Player**

**Asset Gallery**

**Low Delay Playback  
< 8 seconds from live**

**Dynamic Ingest**

**Dual PUSH Ingest Support**  
(Redundant Encoder Configuration)

**Advanced Video  
Compression Support**

**Hostname Configuration**

**CDN Delivery Profiles**

**CDN Security Profiles**

**Advanced Content Protection**

**Advanced Media Analytics**

**Property Creation**

## We Stream the Future

Media  
Manager

AI Media  
Delivery

Ultra-Fast  
Encoding

Meta View  
Analytics

AI  
Orchestrator

Stay in touch



marketing@mainstreaming.tv



Milan | Paris | London | New York | San Francisco