

# Smart Origin - Public Network

runs on **IMDP**

An all-in-one user-friendly platform that reduces origin traffic, prevents congestion, monitors stability and increases stream efficiency.



## What it does

Optimize your streaming workflow with advanced origin capabilities that directly reduces costs while maintaining delivery stability over our Public Network or in a Multi-CDN Environment. When requests for content come to our Smart Origin, our AI sends only one call for it and then distributes the content intelligently to our servers or other CDN's, without requesting it again from the source. This essentially eliminates congestion at the client's origin and guarantees a successful content delivery.

Our AI Technology consistently monitors the network and servers across it, to make sure it handles all requests for content seamlessly, 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

As less requests will be directly sent to the client origin; this will require less processing and in turn directly decrease the costs related to distributing content over multiple networks.

### Delivery Efficiency

Whether it is over the MainStreaming network or requests being made through a multi-CDN environment, our AI prevents congestion and dynamically distributes content where it is requested.



## Application Areas

### Media

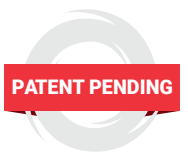
Broadcaster  
OTT TV  
Online Media  
Publisher  
eSport  
eGaming

### Telco

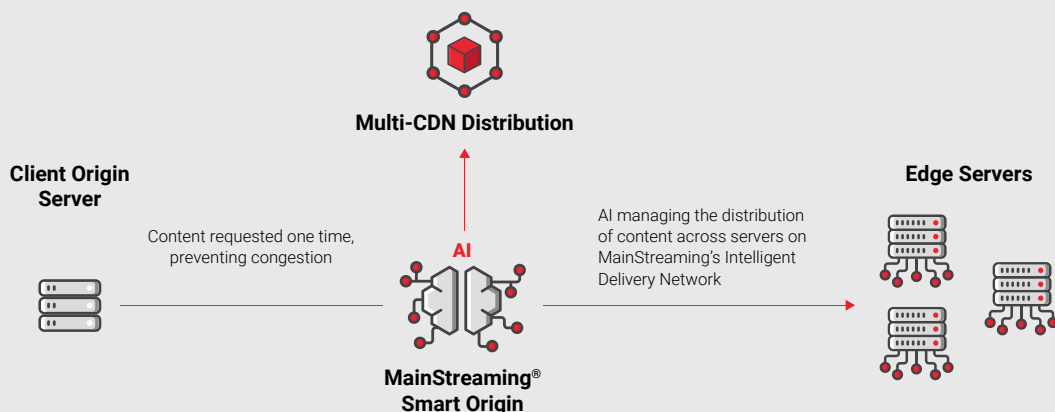
TLC  
ISP  
Data Center

### Enterprise

Finance and Insurance  
Education  
Business Service



## How it Works



# Intelligent Media Delivery Platform (iMDP)

## 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



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