

SEAMLESS Playout & Streaming

Arkki PLAYSTREAM

As media companies and production outfits grow the number of channels and delivery methods for their subscribers, the need for a cost-effective solution for delivery of content becomes more pronounced. The media workflow increases in complexity and makes investment in specialized or dedicated equipment more expensive.

Arkki PlayStream is an innovative and cost-effective platform for broadcast and media customers to digitize and playback their content, either as a complement or replacement of an existing delivery chain. Built on an open IT-based platform, Arkki PlayStream is powered by MediaPower proprietary technology, ensuring seamless integration not only with the other products of the Arkki Suite but also 3rd party systems, to provide a highly flexible and highly scalable end-to-end solution. Arkki PlayStream is designed to deliver and playout broadcast quality video in Proxy, SD, HD and UHD formats, and support a variety of input / output or local / central storage combinations and built-in redundancy.

Now, Media Companies can have a resilient, cost-effective video playout, and streaming platform, provisioned with powerful user applications and tools with Arkki PlayStream.

Key features

- Real-time playlist seeking
- Slow motion
- Trim editor
- Sub playlist
- External event (Live, Command, CG graphics)
- Playlist & Content Scheduling
- Drag and Drop
- Multi-select copy-paste and advanced Playlist editor
- Playlist timeline
- Management of playlist's gap fill with secondary playlist
- File or Live input
- Cg playout
- Cg editor
- Advanced Multilevel Graphic Engine plus Editor
- Web Playlist Manager and full editor

Key benefits

- Deliver VoD and Live Streaming over the Internet
- Includes powerful discovery engine to deploy content to any device or web browser
- Delivers NDI, SDI, Web RTC, IP streams up to 8k 30p HDR with DSK output support

Arkki PlayStream is a content delivery platform for seamless multi-channel broadcasting and end-to-end OTT, social streaming (NDI, SDI, Web RTC, and IP Streams). It is composed of two modules:

- a MEDIA SEQUENCER with Single or Multiple Virtualized Instances
- a CDN SEQUENCER for Social Media Distribution

● INPUT SOURCES

Arkki INGEST supports many different input sources and send them to heterogeneous targets.

- Decklink Native
- Aja
- Any other DirectShow Device
- Ndi Native Iso
- WebRtc
- SRT
- rtm/sp
- HLS
- Web Pages

Support closed caption, Anc - Vanc, LTC insertion

Supported Video Codecs

- Uncompressed 4:2:2 8bit
- Uncompressed 4:2:2 10bit
- DV Video / DVCPRO-HD
- Intel QuickSync H.264 Encoder
- Intel QuickSync SW H.264 Encoder
- Intel QuickSync HW H.264 Encoder
- NVIDIA NVEnc H.264 Encoder
- NVIDIA NVEnc H.264 Lossless Encoder
- NVIDIA NVEnc H.265 (HEVC) Encoder
- CUDA H.264 Video Encoder
- Cisco libopenh264 H.264/MPEG-4 AVC Encoder
- libx264 H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10
- Intel QuickSync HEVC Encoder, x265 H.265/HEVC
- FLV / Sorenson Spark / Sorenson H.263 (Flash Video)
- HuffYUV
- VC-1
- MJPEG (Motion JPEG)
- MPEG-1 Video
- FFV1
- MPEG-2 Video
- MPEG-4 part 2 Video
- Apple ProRes
- Windows Media Video 8
- OpenJPEG JPEG 2000
- Google VP8
- AMD AMF H.264 Encoder
- AMD AMF H.265 (HEVC) Encoder, libvpx VP9
- DNxHD (Digital Nonlinear Extensible High Definition)
- QuickTime Animation (RLE) video

Supported Data Containers

- MPEG Program Stream
- MPEG Transport Stream
- MP4 (MPEG-4 Part 14)
- MOV (QuickTime File Format)
- MOV DNxHD
- XDCAM - MPEG IMX (MPEG-4 container)
- MXF (Material eXchange Format)
- MXF D-10 (Material eXchange Format D-10 Mapping)
- GXF (General eXchange Format)
- DV (Digital Video)
- DVD Video (VOB-Files)
- ASF (Advanced / Active Streaming Format)
- iPod MP4 (MPEG-4 Part 14)
- AVI (Audio Video Interleaved)
- MKV (Matroska)
- WebM
- Image Sequence
- MP3 (MPEG audio layer 3)
- AC3 (AC3 audio files)
- AAC (Advanced Audio Codec)
- WAV (Wave Audio Files)
- Ogg

Flexible Codec Support

Arkki PlayStream supports a very wide range of software codecs ensuring broad interoperability. Industry-standard wrappers such as QuickTime & MXF are supported, allowing seamless workflow integration with third-party NLEs and various production tools. Arkki PlayStream supports many different codecs and containers interpolations. All formats can be played out back-to-back seamlessly, including a mix of SD and HD, on the same timeline, with dynamic cross-, up- and down-conversion of the video signal, as well as aspect ratio modifications.



Innovative System Architecture

Arkki PlayStream can work either with its own local storage, directly attached to a SAN, to a NAS, or in a hybrid configuration.

Fully Integrated Graphics Engine

Arkki PlayStream offers an optional embedded graphics engine, which makes design and playout of CGs, crawlers, tickers, lower thirds, logos, full frame graphics and complex 3D animations a breeze. A wide range of setup options offers unique flexibility and facilitates graphics production and playout.

The CG editor features:

- MPEG Program Stream
- MPEG Transport Stream
- Real-time preview
- Tree objects
- Groups align
- Shadows outline
- Text editor
- Z order
- Freehand position and scale

Editor Objects include:

- Text
- Shapes
- Images
- Image sequences plus alpha channel
- Video plus alpha channel
- Ticker
- Crawl text
- Roll text
- Banner

Flexible 3rd Party Support

Arkki PlayStream can be controlled using local control or its API protocol making it simple to integrate with 3rd party MAM, NRCS, and Playout control or automation.

Ready to go and future-proof

Arkki PlayStream also helps bridge the gap to highly anticipated IP delivery methods as it provides support not only for SDI but also IP ingest and streaming. Arkki PlayStream's highly configurable and flexible design ensures future scalability and compatibility, allowing customers to start small and later grow their system when the need arises.

ARKKI SUITE



ARKKI SUITE is a collection of cost-effective modular solutions by MediaPower that help you produce and deliver digital content.

About MediaPower

MediaPower enables media workflows through products and services that empower organizations to create, manage, deliver, and monetize digital content. Founded in 1993, MediaPower started as an integrator of networking and storage solutions for the broadcast industry, with products from top brands like SeaChange, DDN, NetApp, and Dalet. MediaPower has since developed multidisciplinary expertise in IT-based workflows, media management, content acquisition & distribution, and digital transformation.

Having started in Italy & France, MediaPower now has established offices in Europe, Asia, and the United States, with a global presence in over 30 countries through its expansive and continually growing channels network.

While MediaPower continues to bring best-of-breed technologies from different content creation, management, and distribution brands into its offerings, it now also develops its suite of services and applications that enable the use of video throughout an organization's internal and external communications. These include NewsTouch touch-based live presentation appliance, Arkki EVO Digital Asset Manager, AirGo integrated video server, NewsApp UGC (user-generated content) sharing platform, and its own OTT delivery platform.

With the widespread use of video and digital media in many different aspects of any business or vertical industry, MediaPower aims to serve not just the traditional broadcast and media space, but also content publishers, institutions, and corporate organizations to help them shift to technology and data-driven operations that deliver value to their customers.