NetworkTV IPTV is a complete solution that manages and controls live and recorded digital video content. Consisting of computer server software-based components NetworkTV IPTV is a scalable enterprise solution with the simple-to-use management portal being presented via a web browser.

There are three variants of NetworkTV IPTV: Gateway; Live; and CMS (Content Management System), which allow control of video content and hardware devices including encoders, tuners, streamers, smart TVs and set-top-boxes across an intranet. NetworkTV IPTV CMS includes an integral library to organise recordings and pre-recorded content for creating playlists, digital signage and video-on-demand, amongst many other features.

NetworkTV IPTV is hardware agnostic to allow existing equipment and streams to be incorporated into the environment and legacy encoders, TV tuners, PTZ IP cameras etc. can continue to be utilised. The open API is available to enable remote control of NetworkTV IPTV systems from 3rd party manufacturers such as Crestron, QSC etc.

Delivering key messaging, information and media content to staff, students, visitors and guests in the modern workplace, retail and hospitality environments is an essential part of life, NetworkTV IPTV simplifies this in a single scalable platform to meet your needs.

Complete Starter Packages
Pre-configured NetworkTV IPTV starter packages are available which combine software and hardware components making it easier to choose a suitable solution to meet your IPTV and video content management requirements. Each package contains everything needed to deliver video content across your IP enterprise.

The NetworkTV Gateway Packages deliver live TV and include NetworkTV IPTV hardware and software with options for terrestrial, satellite and cable transmissions.

The NetworkTV Live Packages provide complete solutions for those that only want to deliver live streams such as encoded streams or IP camera feeds. These packages include NetworkTV IPTV hardware and software and have the added benefit of delivery of HLS streams to the desktop and mobile users.

The NetworkTV CMS Packages additionally include recording, content management, archiving and VoD as well as all Live features.

All packages provide the foundation and capability for large-scale expansion to support hundreds of TV channels, encoders, smart TVs, set-top-boxes, PC and VoD users, as well as handling numerous simultaneous recordings and terabytes of content. Alternatively, NetworkTV IPTV can be installed as a Virtual Machine on premise or in The Cloud.

NetworkTV has been designed and developed from the ground up as a complete solution that incorporates many key features and these are covered below. We have also provided a simple comparison chart at the end to help identify which type of NetworkTV solution would be suitable for your requirement.

NetworkTV Key Features

- **Simple-to-use Admin Portal** - a user-friendly interface to manage all functionality and users via a web browser portal. Manage the system from either a PC or mobile device, locally or remotely.
- **System Management** - manage live streams from most sources including encoders, tuners, set-top-boxes, smart TVs, content, recording, metadata and streams from a PC or mobile device.
- **TV Channels** - manage and distribute DVB Terrestrial/Cable/ Satellite, DTMB & ATSC/Clear QAM TV channels with NetworkTV Gateway or third party headends including COM3000 and ATXUcrypt.
- **Encoding** – HDMI and HD-SDI encoders to create SD, HD and 4K UHD video streams for recording and local playout as well secondary low bit rate streams to send to YouTube, Facebook Live etc. for webcasting.
- **SAP Announcements** - provide SAP announcements for a live channel list so users can watch in a media player such as VLC.
- **Recording** – record unicast and multicast UDP, RTP, HLS and HTTP streams, multiple live streams simultaneously and scheduled recording.
- **Centralised Library** - upload existing content in all the main video and audio formats.
- **Video-on-Demand (VoD)** - browse the library or search for content using favourites, metadata tags and thumbnails to play on demand or push specific content to selected users.
- **DRM** — integration with Samsung Lynk™ and LG Pro:Idiom® to provide Digital Rights Management for Hollywood movie content and premium TV channels.
- **Streaming** – support for multicast, unicast RTSP, RTP, RTMP, HTTP and HLS streams as well as offering "pull and push" streaming.
- **HLS** - convert and deliver any live H.264 stream to HLS with the simple click of a button enabling playback on PC, STB and mobile devices.
- **Transcoding** - live content is converted into a compatible format for delivery to the users' preferred viewing device, whether that's a TV/display screen, computer or mobile device optimising delivery and extending IPTV channels and content to users.
- **Playlists** — organise content as a unique live inhouse channel or schedule its delivery.
- **Digital Signage** — functionality to provide simple signage with a number of standard templates with access to video, pictures, graphics, slides and RSS feeds.
- **Multiscreen Support** - provides the flexibility and control to deliver live and pre-recorded SD, HD and UHD streams and content to PCs, STBs, digital signage players, smart TVs, tablets and smart-phones.
- **Virtual Matrix** — create a matrix of inputs (IP encoders, IP cameras or live TV streams etc) and route them to destination endpoint decoders.
- **Scalability** - NetworkTV provides the foundation for unlimited expansion supporting hundreds of TV channels, encoders, smart TVs, STBs, PCs and VOD users, as well as handling numerous simultaneous recordings and terabytes of content.
- **Compatibility & Legacy** - integrate with control systems, encoders, headends and existing content with a full open API.
- **Restream** — take any live stream and convert it into a Unicast to deliver over a WAN then re-stream it at the remote location as a multicast for transmission to multiple set-top-boxes or smart TVs.
- **Active Directory** - integrate NetworkTV with your AD system to manage administration access.
- **Management Server** - standard packages offer 1U short form factor server with 16GB RAM, 4TB/2000 hours storage and quad core CPU processors. Optionally, increase the specification of the server or have NetworkTV provided as a virtual machine image.

For more advanced and larger scale requirements than one of the pre-configured NetworkTV IPTV starter packages, NetworkTV will design and provide a fully customised solution. A complete range of support services are also available to simplify the implementation of any NetworkTV IPTV system.

NetworkTV Gateway, Live & CMS comparison chart

NetworkTV IPTV systems contain many features. The comparison below provides a quick overview of the main differences between the Gateway, Live and CMS versions.

Feature	Gateway	Live	CMS
Terrestrial, Satellite and Cable Tuner Cards	✓		
STB Management	✓	✓	✓
Manage Live Channels	✓	✓	✓
SAP Announcements	✓	✓	✓
Create HLS Streams		✓	✓
Create Playlists		✓	✓
Schedule Playlists		✓	✓
Virtual Matrix		✓	✓
Content Library			✓
Recording			✓
Video-on-Demand			✓
Digital Signage			✓
Restream		✓	✓
DRM & CAS Server		✓	✓

If your requirements are more sophisticated than one of our packaged configurations, then we are happy to help you design and provide a fully customised solution. We are also able to provide a range of support services to simplify the implementation of your organisation's video distribution needs.

NetworkTV

tv, video and av on your network