

# Triplay



## INTERNET PROTOCOL TELEVISION HEAD END SOLUTION

### CHALLENGE

Internet Protocol Television, more commonly known as IPTV, addresses the challenges faced when delivering high quality, live, full screen television over a data network using the Internet Protocol 'IP' standard. Available to view on the desktop and standard television environment, it removes the issues of picture degradation, interference and network channel capacity associated with traditional coax based distribution systems. The labour intensive and technically complex process of channel

tuning and reconfiguration on a coax network now takes a matter of minutes with Tripleplay's IPTV solution, TripleTV over an IP network.

For any television distribution system, content is acquired from multiple sources including satellite, terrestrial, cable and off-air. Conventional systems required individual receivers and encoders to support the different signal types that are then combined before being delivered over a coax network. With Tripleplay's

IPTV solution this problem is managed by combining multi service interfaces into a signal unit known as the TripleTV head end.



### SOLUTION DESCRIPTION

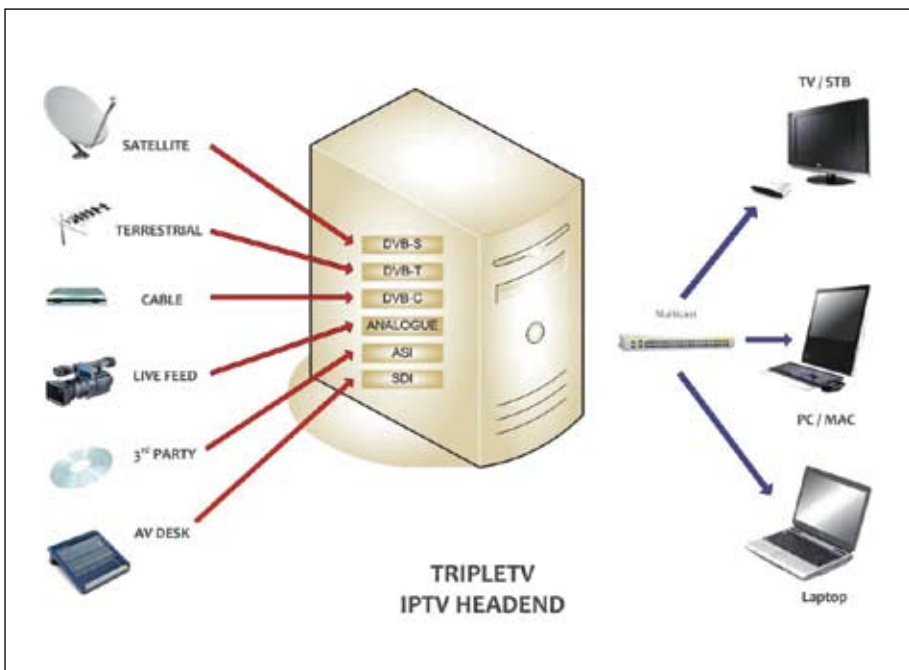
TripleTV provides an integrated platform for simultaneously delivering multiple IPTV channels to the desktop and television environment. A single head end can deliver over 80 TV channels and be combined with multiple receiver types to meet a customer's exact channel line-up. Interfaces are available for free to air and encrypted signals sourced from digital satellite, digital terrestrial, digital cable, component analogue sources,

uncompressed professional digital sources via serial digital interface 'SDI', and asynchronous digital interface 'ASI' for third party systems are all supported through the platform. As with all products from Tripleplay the system is HD ready.

Standard based components are used throughout the design with hardware sourced from HP and IBM to ensure ongoing support and longevity of the

platform no matter where the system is deployed. Management, configuration and monitoring of the head end is via a simple to use web interface with in-built Simple Network Management Protocol 'SNMP' support. Programme information management and remapping is provided to allow the platform to be used with multiple end user applications.

A component based design allows customers to increase capacity in a controlled manner to meet the demands of their end users. Unlike other systems Tripleplay's unique software architecture allows multiple services to operate on the same TripleTV platform thereby turning the TripleTV head end unit into an Application Server which can also support products such as Tripleplay's video on demand, "TripleVOD" and digital signage, TripleSign.



**'TripleTV provides a high quality, low maintenance solution to cost effective TV services.'**

David Evans,  
BizStream

# BENEFITS

## EXTENSIBILITY

- Software based design allows system features to be added without the need to change hardware
- System capacity can be increased by adding additional head end units

## INTEGRATED

- Ability to run additional services and applications on same head end unit e.g. video on demand and digital signage
- Minimal integration issues through standard software architecture

## WEB BASED

- Ease of use for system configuration through web interface

## SUPPORT

- SNMP support for integration into centralised network management system
- Ability to monitor quality of signals being inputted into the head end
- Capability to monitor output quality and error rates of individual IPTV channels

## STANDARD HARDWARE

- Guaranteed local engineering support for hardware related issues

## PID MANAGEMENT

- Ability to more efficiently manage bandwidth through only broadcasting information required for end device

# TRIPLETV FEATURE SET

## HARDWARE

- 3 slot, 5 slot and 7 slot head end unit available
- Multiple application system with 3 slot and 5 slot support
- Support for DVB-S, DVB-T, DVB-C, DVB-CI, Component Analogue, SDI, ASI, DVB-S2 interfaces
- RAID 1 hard disk redundancy
- 3 year head end warranty as standard
- Output support for MPEG-2, MPEG-4 Standard and High Definition

## SOFTWARE CAPABILITIES

- Internalisation and localisation support
- Automatic signal quality analysis
- Bit error rate and signal quality monitoring
- Outputs all subtitling, languages, DVB System Information, DVB Programme Service
- Web based interface
- SNMP Management
- MIB definition
- PID remapping
- Remote system diagnostic, performance and monitoring
- Automatic detection of changes in programme identifiers

# EVOLUTION OF THE SOLUTION

Digital television is constantly evolving as new protocols, standards and requirements are required from any IPTV platform. Through its unique software based architecture Tripleplay is continually developing the capabilities of its platform. Support for new standards such as DVB-S2, new interfaces to support MPEG-4 HD encoding from analogue and SDI and multiple protocol types on a single interface will be launched shortly as well as the ability to remotely capture the live TV channel which is being played on an interface for remote analysis. Customers will be able to upgrade to these features and others on their existing platform thereby securing their initial investment in the system.

**EVERYTHING YOU NEED FROM AN IPTV SOLUTION**



**TripleTV**  
Innovative IPTV Solution



**TripleVOD**  
Digital Video on Demand



**TripleSign**  
HD Digital Signage

**ENHANCE**



**TripleTV+**  
Network Based Video Recorder



**TriplePlayer**  
Browser Based Media Player



**TripleChoice**  
Seamless User Portal



**TripleLive**  
Live Camera Feeds



**TripleGuide**  
Fully Featured Programme Guide

**MANAGE**



**TripleCare**  
Subscriber Management System



**TripleCode**  
Video Conversion Tool



**TripleEdit**  
User Friendly Video Editor



**TripleCast**  
Content Distribution



**TripleCMS**  
Content Management



**TripleMux**  
Video and Audio Muxer