



# WHOLESALE VIDEO TRANSPORT

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## SERVICE OVERVIEW

**Wholesale Video Transport** is a professional solution for providing TV channels' transport services to TV retransmission Service Providers ('TV Operators'), in order to be retransmitted by them through their own systems.

Wholesale Video Transport service allows efficient transport of hundreds of TV channels using a highly redundant network configuration and traffic control techniques, to ensure an excellent availability and quality of service.

Telekom Romania Wholesale guarantees the secured transport of TV stations content, by means of an own, dedicated, virtual private network, and their distribution only to the TV Operators whom it was intended for. The TV signal can be delivered in encrypted or unencrypted format.

## TV CHANNELS

Telekom Romania Wholesale is currently delivering TV services to a very dynamic residential market, offering over 100 IPTV live channels, including free-to-air and paid TV stations. Cable operators can either opt for the whole package of channels in Telekom Romania Wholesale's portfolio of TV channels, or request a quote, appropriate to their needs. Cable operators must prove the retransmission right for the respective TV channels.

## SERVICE PORT

The service can be delivered on a dedicated physical port or together with other services on a common physical port, but on a separate virtual interface.

## COMMUNICATION SERVICE

**Live content acquisition** – by means of a carrier grade, scalable headend equipment, provided with redundant architecture

**Contribution** – formatting the signal for the transmission using advanced compression techniques, encoding and encryption.

**The delivery of the TV channels** (linear TV channels / broadcast TV) from Telekom Romania Wholesale's headend up to the Service Port, by using:

- A redundant, secure, guaranteed bandwidth virtual private network (VPN), designed to carry the multicast IPTV traffic, targeting a service availability of 100%
- A fibre optic access line

## OTHER VALUE ADDED SERVICES WE CAN PROVIDE TO TV OPERATORS, AT OUR CHOICE

**Equipment rental** (CPE / DQAM) for the conversion from IP to digital signal, including the installation and initial configuration

**CPE management** – optional service

**TV channel encryption** – includes the generation of the encryption keys for user access and for the conditional access cards / modules.

**Electronic Program Guide** (EPG) - accessed by the end user directly on the TV screen, provides information about the programs / programs transmitted by television stations.

## SERVICE ATTRIBUTES

- Over 100 TV channels
- Standard Definition or High Definition resolution
- IP or DVB-C signal format
- MPEG2 / MPEG4 encoding
- Redundant solution with 24 / 7 support
- Signal Multiplexing
  - a) SPTS (Single Program Transport Stream) – for IPTV networks
  - b) MPTS (Multi Program Transport Stream) – for digital networks



## BENEFITS

- Higher quality of the terrestrial transport service, compared to the satellite transport which may be affected by the climatic conditions
- OPEX reduction by cutting costs on the satellite transport
- Increase operational efficiency and fault management by using a simplified headend architecture
- Support TV Operators in the stage of migration from analogue to digital TV
- Start-up support, reducing CAPEX / OPEX for Operators looking to offer dual / triple-play services
- Support TV Operators' business, allowing rapid increase of the service coverage area and enhancement of the offer with new channels
- Secured access to the TV content by using virtual private networks, dedicated firewalls and encryption services
- Carrier grade, fully redundant headend, targeting a service availability of 100%

## ABBREVIATIONS

<b>IPTV</b>	Internet Protocol Television
<b>CPE</b>	Customer-Premises Equipment
<b>DQAM</b>	Digital Quadrature Amplitude Modulator
<b>IP</b>	Internet Protocol
<b>EPG</b>	Electronic Program Guide
<b>SPTS</b>	Single Program Transport Stream
<b>MPTS</b>	Multi Program Transport Stream



## CONTACT

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