MC-ROUTE

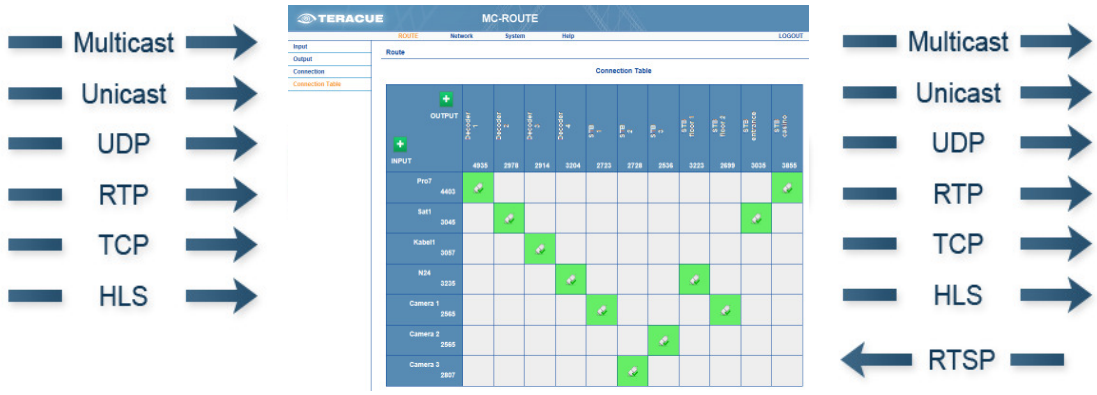
IP STREAM ROUTER AND SWITCHER FOR IPTV AND OTT

The MC-ROUTE is a multi functional problem solver. It is the right tool for a variety of different streaming tasks in the intranet and internet. It can be operated in-house or in the cloud. The MC-ROUTE can be controlled by its simple integrated web interface.

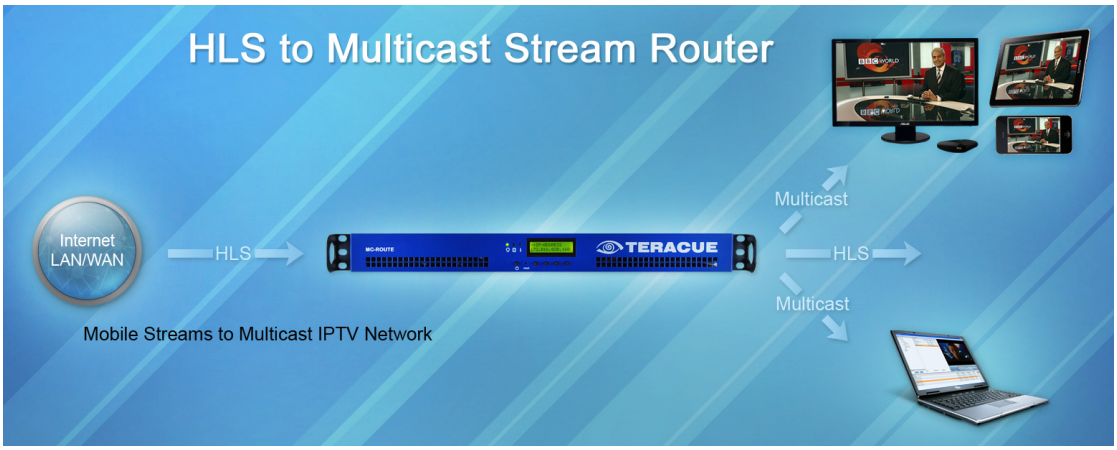
Unique features and benefits:

- Multiple input and output streams
- Redundant input stream switching
- AES encryption and decryption
- RTSP server and MPEG-TS over TCP
- Remote configuration by web services/SOAP
- Forward error correction Pro-MPEG FEC*
- HLS streaming for iOS devices, Android & Google TV
- A/V switcher style routing matrix
- Adjustable time-shift and stream delay
- Unicast/Multicast with TS over UDP/RTP
- 2 IP ports for in, out and management

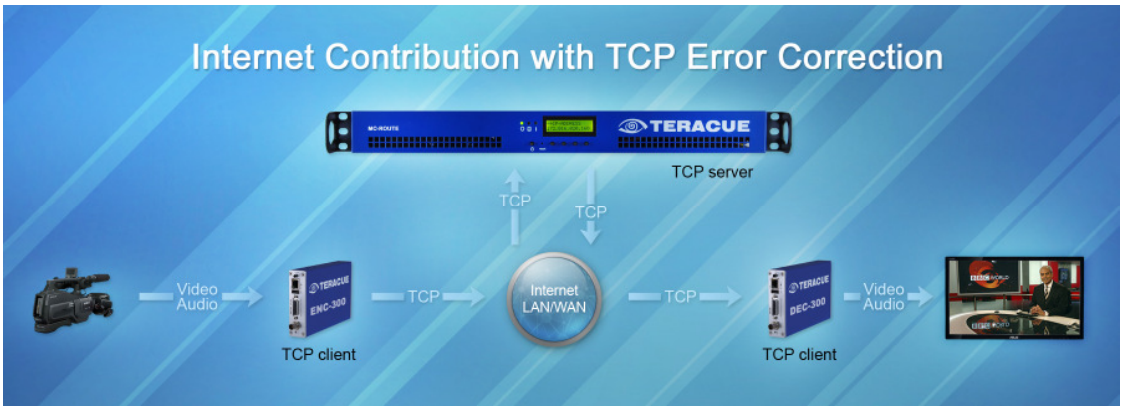
Applications:

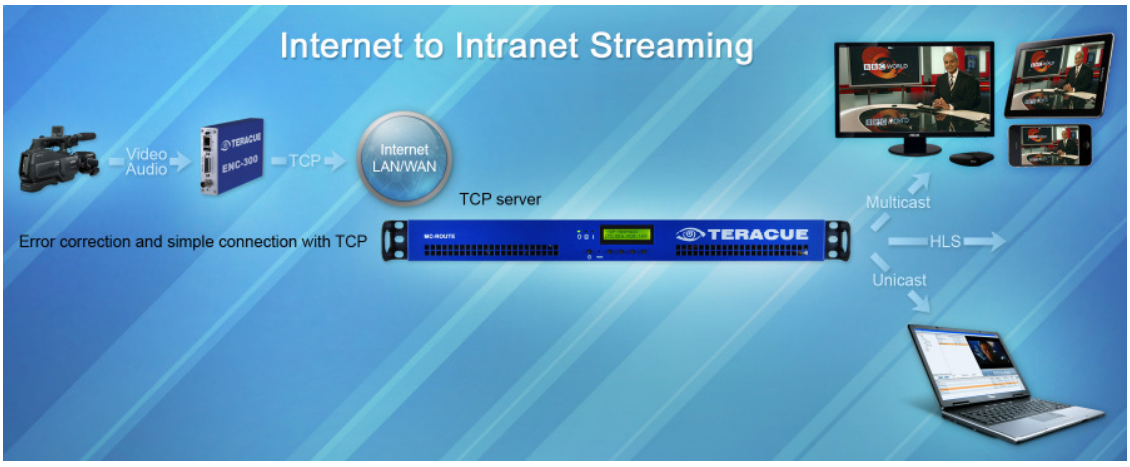


MC-ROUTE


HLS to Multicast Stream Router
Internet LAN/WAN
HLS
TERACUE
Multicast
HLS
Multicast
Mobile Streams to Multicast IPTV Network

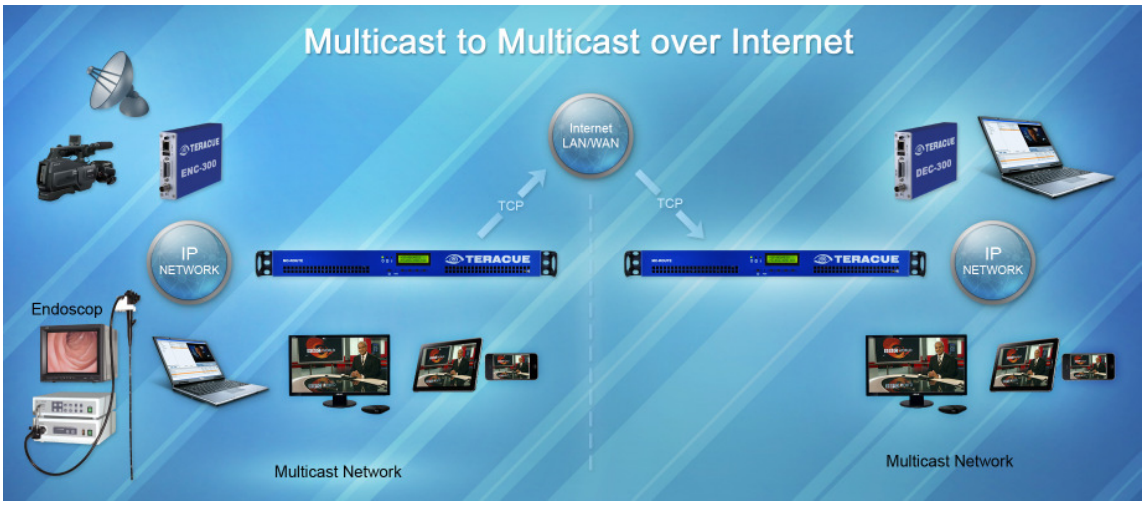
Redundancy Switching of IP Streams
DVB-S2
TERACUE
IP
DVB-T Backup
DVB-T/T2

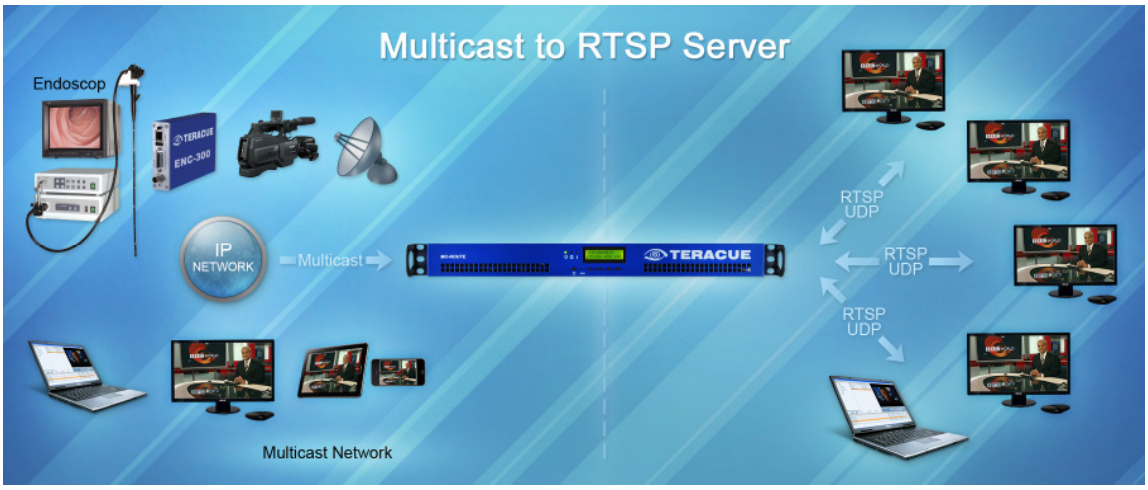

Internet Contribution with TCP Error Correction
TERACUE
TCP server
TCP
TCP
Video Audio
TCP
Internet LAN/WAN
TCP
Video Audio
TCP client
TCP client


Internet to Intranet Streaming
Video Audio
TCP
Internet LAN/WAN
TCP server
Error correction and simple connection with TCP
TERACUE
Multicast
HLS
Unicast

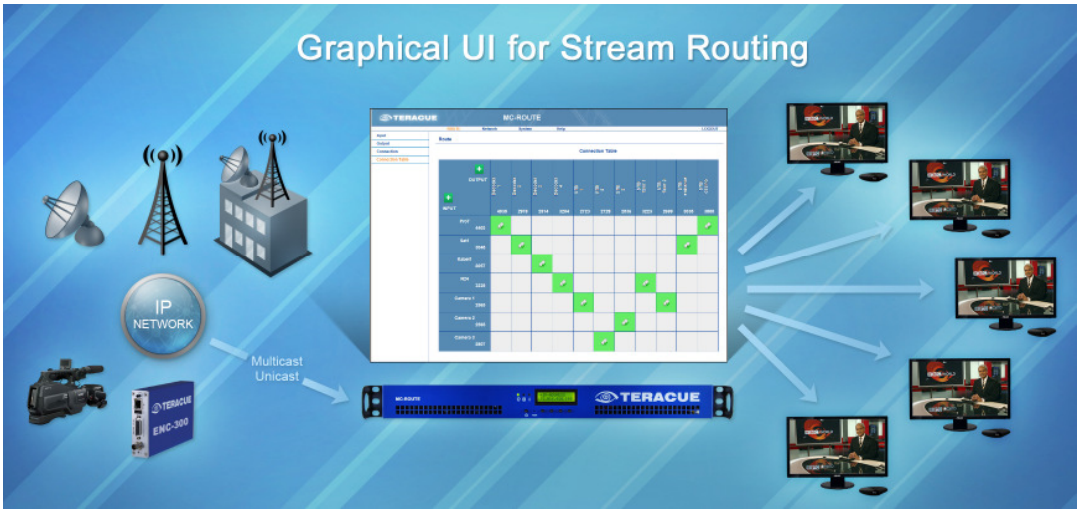
Encryption and Decryption
Endoscop
ENC-300
UDP
AES
Internet
LAN/WAN
AES
UDP
RTP
HLS
TERACUE
128 bit AES Encryption
128 bit AES Decryption

Time Shift, Stream Delay
DVB-S2
DVB-C
DVB-T/T2
TERACUE
Internet
LAN/WAN
UDP
RTP
HLS
1 second up to 24 hours delay for each channel


Multicast to Multicast over Internet
ENC-300
Internet
LAN/WAN
TCP
TCP
DEC-300
IP
NETWORK
IP
NETWORK
TERACUE
Endoscop
Multicast Network
Multicast Network


Multicast to RTSP Server
Endoscop
ENC-300
IP
NETWORK
Multicast
TERACUE
RTSP
UDP
RTSP
UDP
RTSP
UDP
Multicast Network

MC-ROUTE



SPECIFICATIONS OF MC-ROUTE-1RU:

Network:	2x 10/100/1000TX Ethernet, RJ45, half/full duplex, auto-sensing or manual control
Streaming Traffic:	Unicast, multicast and TCP traffic supported, up to max. 500 Mb/s
Input and Output stream protocols:	TS over UDP, TS over RTP, TS over TCP, HLS
Stream control:	RTSP server
Multiplex format:	ISO/IEC 13818-1 transport, ISO/IEC 14496-10 NAL (Network Abstraction Layer)
IP protocols:	HTTP, TCP/IP control protocol, UDP/RTP/TCP streaming, IGMP, SAP, unicast/multicast, SNMP traps, DCHP
Error correction:	PRO-MPEG FEC* (forward error correction) and TCP
Time-shift capacity:	150 GB (24h@14Mb/s)
Management:	Web browser, SNMP traps, SOAP web service, TCP frame work protocol

ENVIRONMENTAL:

Chassis:	19“, 1 RU
Dimensions:	43x482x407 mm (HxWxD)
Weight:	6,15 kg
Temperature:	5 to +60°C environmental temperature
Agency Approvals:	UL, FCC, CUL, TÜV, RoHS, WEEE, CE EN 60950 / IEC 60950 compliant
LCD-Display:	2-spaced display, power-button, reset-button
Power Supply:	260 Watt PSU
Limited Warranty:	1 year standard limited warranty. Warranty extensions available.

ORDER INFORMATION:

MC-ROUTE-1RU	Rack mount appliance for live stream routing and bridging. Conversion and routing of unicast and multicast streams. Multiple unicast and multicast outputs supported.
MC-ROUTE	1 single license for an unlimited number of streams. Software only.
MC-ROUTE-10	1 single license for 10 simultaneously streams. Software only.

COMPLEMENTARY PRODUCTS:

DEC-300-HDSDI	H.264 HD & MPEG-2 HD decoder blade with HD-SDI-, embedded audio, analog video/audio output.
ENC-300-DVI	MPEG-4 AVC H.264 DVI encoder blade with DVI/HDMI input (with embedded audio).
ENC-300-HDSDI	MPEG-4 AVC H.264 SD/HD encoder blade with SD/HD SDI input (with embedded audio) and Composite, S-Video (Y/C), Component (YP_bP_r) or analog VGA (RGB) input.

* = Will be supported in future firmware versions.

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