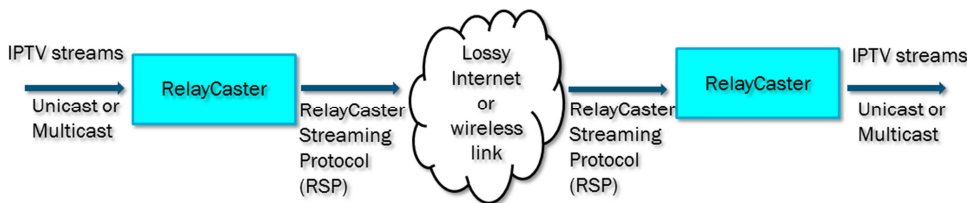




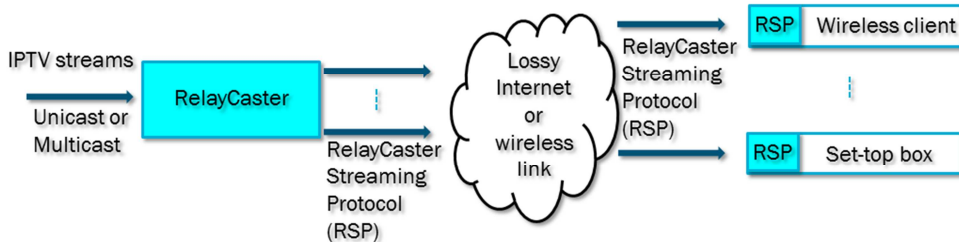
RelayCaster software-only version offers a turn-key solution that enables optimized transmission of IPTV streams. By using the RelayCaster Streaming Protocol (RSP), reliability and data rates of streaming live content in wireless networks or along lossy long distance links can be greatly improved. RelayCaster servers allow for building cost-effective Content Delivery Networks (CDN) using the public Internet infrastructure. At the same time, RelayCaster servers can be used as powerful tool for performing various conversions between multicast and unicast networking. Being compatible with existing

gateways, transcoders, conditional access systems, streaming servers, and set-top boxes, RelayCaster server software can be seamlessly integrated into your existing infrastructure.

Using RSP as streaming protocol between two RelayCaster servers allows for the optimized transmission of IPTV streams to remote company sites, data centers, or networks. Compared to streaming with UDP or RTP, RSP greatly reduces packet loss. Compared to content distribution with TCP or higher-level protocols such as FTP or HTTP, RSP offers much higher bandwidths for transmission of live content over lossy long distance links.



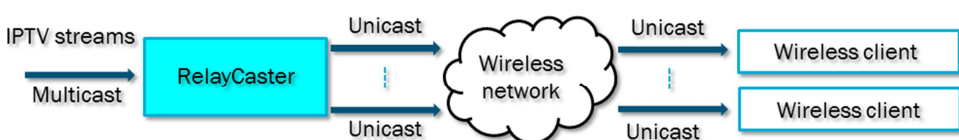
RSP can also be employed as client-side protocol on wireless clients or set-top boxes.



A pair of RelayCaster servers can be used to transparently convert between multicast and unicast. This allows for 'bridging' network segments that do not support multicast.



Today's commodity devices and infrastructures for wireless networks often do not support IPTV multicast. RelayCaster software overcomes these limitations by transparently recasting IPTV multicast streams available in the wired network to unicast streams for wireless clients.



RelayCaster Software

RelayCaster Streaming Protocol (RSP)

Application areas

- Optimized IPTV streaming for lossy long-distance links in Content Delivery Networks (CDN)

- Optimized IPTV streaming to clients in lossy wireless networks

- Multicast-unicast-multicast bridging for IPTV

- Multicast-unicast conversion for wireless IPTV networks

■ IP Streaming	■ MPEG Transport Stream (MPEG-TS) for SDTV and HDTV <ul style="list-style-type: none">■ MPEG-2■ MPEG-4 (AVC/H.264)■ MPEG Audio, AC3, ...
	■ Protocols <ul style="list-style-type: none">■ Unicast / Multicast / Broadcast■ UDP■ RTP over UDP■ RelayCaster Streaming Protocol (RSP) (optional)
	■ Output rate for receiving and sending <ul style="list-style-type: none">■ Unlimited number of streams■ Performance depends on customer's hardware platform

■ Free Software Developer Kit (SDK)	■ Fully programmable and remotely controllable using C++ API (Windows, Linux, Mac OS), PHP or XML-RPC (all platforms) ■ Based on award winning Network-Integrated Multimedia Middleware (NMM) by Motama
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■ Administration	■ Web interface (http/https) ■ ssh (if available on customer's installation)
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■ Software	■ Download for Linux operating system ■ Ask for supported Linux distributions (kernel 2.6.x, 32bit)
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RelayCaster Software

RelayCaster Streaming Protocol (RSP)

Motama GmbH
Lortzingstr. 10
66111 Saarbrücken
Germany
www.motama.com

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