

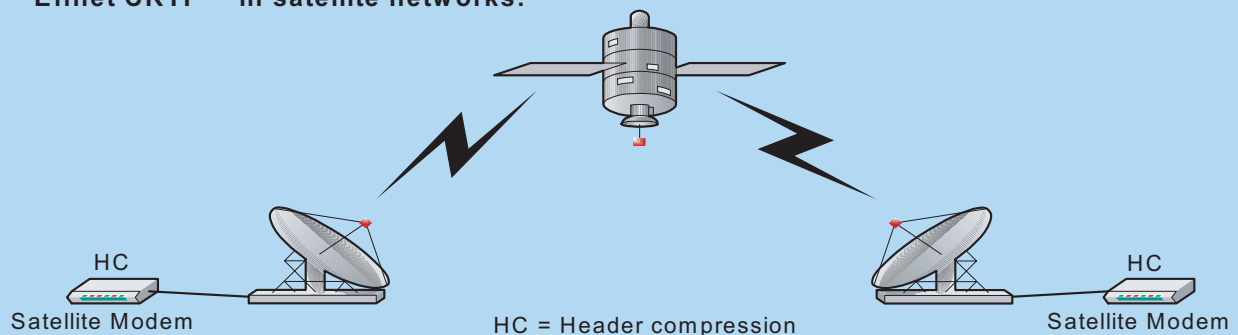
Effnet CRTP™

Saves bandwidth and improves QoS

- ◆ Software fully compliant with the IETF standard RFC 2508
- ◆ Lightweight implementation including all features suitable for low-end devices
- ◆ Highly portable product with ANSI-C implementation
- ◆ Platform, endianness and byte-order independent
- ◆ Highly configurable with compile and run-time options
- ◆ Multi-threading support
- ◆ Extensively tested, in-house as well as during interoperability and field tests

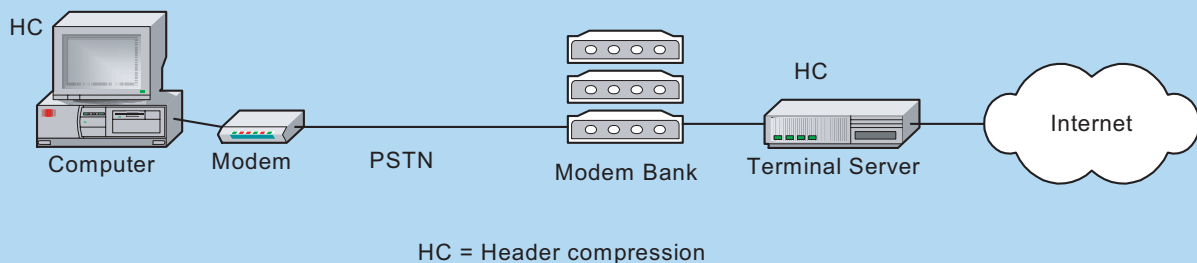
Effnet CRTP™ is targeted for real time multimedia traffic over low bit error rate links with short round-trip times. The product is fully compliant with the IETF standard RFC 2508. Effnet CRTP™ is used on low speed links like dial-up modems. It also provides improved link efficiency on many other network links such as satellite etc.

Effnet CRTP™ in satellite networks:



Effnet CRTP™ uses the differential encoding algorithm to compress header fields and error recovery mechanisms such as header requests and TWICE. These mechanisms reduce packet loss due to bit errors and residual errors resulting in better performance and high efficiency. This header compression scheme compresses the RTP/UDP headers typically down to 2 to 4 bytes.

Effnet CRTP™ in dial-up networks:



Effnet CRTP™ is designed to be easily adapted to a variety of operating systems and hardware platforms. The implementation is developer-friendly and available both in user space for debugging and testing (Effnet HC-Sim™) and has been successfully integrated in link layers such as the PPP according to the standard RFC 3544. Effnet can assist in the link layer integration process as an engineering service.

Effnet CRTP™ has undergone extensive testing. Effnet HC-Sim™ (Effnet Header Compression Simulator), another product from the Effnet Header Compression product family, is used to simulate traffic and link conditions to test the functionality of header compression modules. Effnet HC-Sim™ features a wide range of test cases with comprehensive logging and statistics generation capability. This ensures detailed testing of all features and functions of Effnet's header compression products. For more information about Effnet HC-Sim™, see the related data sheet at www.effnet.com

An example of header compression by Effnet CRTP™ :



Effnet CRTP™ v3.2

The latest release, version 3.2, supports the following functions:

- UDP/RTP header compression
- IP tunnelling
- Support for both IPv4 and IPv6 headers
- Recovery mechanisms: Header Requests and TWICE
- Compression slow start
- Handles both 8 and 16 bit CIDs
- Compression of sub headers: IPv6 extension headers (Hop-by-Hop options header, Routing header, Destination options header), Authentication header and Minimal Encapsulation header
- Rate limiting of the header requests
- Flow classification and context management
- ECRTP support (optional)

Platforms

Effnet CRTP™ v3.2 has been tested on x86 and SPARC and can easily be ported to other platforms.

Support

Effnet products are offered with a full range of support services, including problem reporting, bug fixes, updates, training, consulting and integration services.

For more information about header compression and Effnet CRTP™, see our library of white papers and data sheets at www.effnet.com

About Effnet AB

Since its beginnings in 1997, Effnet has been involved in research and development of technologies that improve the performance and efficiency of IP based networks. The Effnet Header Compression product family saves bandwidth and improves quality of service. Effnet is the leading independent provider of header compression products and is committed to continue to provide leading edge IP technology.

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