

UDboost

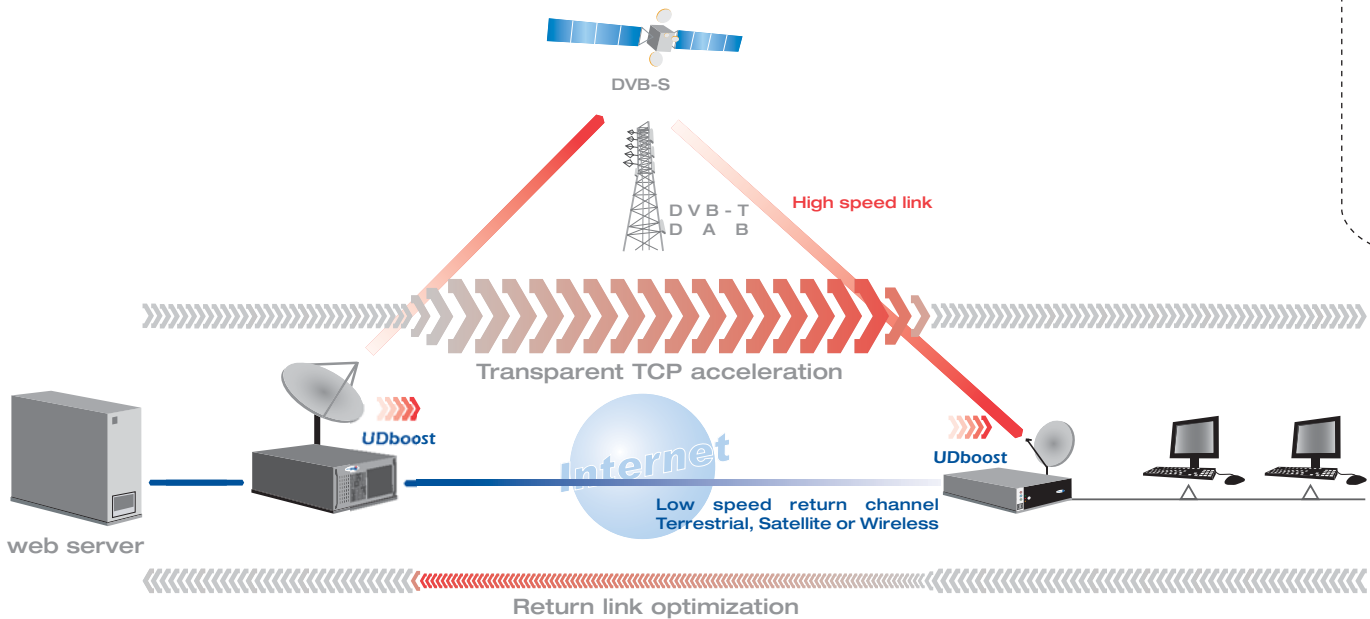
Solution for hybrid IP networks *

Software/Application enabler

- + Accelerated data transfer
- + Enhanced end-user experience



UDboost



01 Description

The **UDboost** software package provides unique end-user experience enhancement within asymmetrical IP bandwidth environments, such as satellite. **UDboost** accelerates all TCP sessions in a transparent way between the transmission hub and reception sites.

With embedded cutting edge technologies, **UDboost** fully utilizes transmission capacity without risk that the return path bandwidth becomes a bottleneck. A unique '*immediate session start*' implementation also reduces TCP session establishment times to quasi-immediate.

Moreover, **UDboost** provides integrated intelligent caching that dramatically enhances web access experiences. Serial HTTP *get* commands are executed in parallel and page downloads are proactively executed.

Any **UDboost** solution is easily deployed with no need for architecture modification or end host configuration. True TCP continues to flow end-to-end as before, and end user network performance perception is significantly enhanced.

* The return path uses a different physical link than the forward path.



UDboost

02 Features / Benefits

- +Transfer rate acceleration for asymmetric bandwidth infrastructures**
 - . Reduced data transfer times
 - . Full exploitation of valuable bandwidth capacity (i.e. satellite transmission)
 - . Cost savings through reduced return path traffic volumes
 - . Forward link transfer rates are no longer limited by the return path's capacity to send TCP control traffic
- +Universal and transparent acceleration loop**
 - . Any TCP-based application can be accelerated
 - . End hosts do not need any specific configuration nor software upgrade
 - . Third party traffic treatment is supported transparently within the TCP acceleration loop
- +Intelligent caching**

Web access experience is improved in several ways:

 - . Simultaneous display of all objects in the same page
 - . Instantaneous display of next related web page
 - . Avoidance of web session freezing across large numbers of simultaneously connected users
- +Upgradeable solution**
 - . Full scalability of the TCP acceleration hub to very large numbers of users
 - . Simple performance upgrades of the UDboost router appliance possible

03 Usage

UDboost brings benefits to a wide range of business players, not only for web access, but many other applications.

- +ISP**
 - . Premium quality web access services enabled, whilst reducing bandwidth costs
 - . High quality Internet access becomes possible irrespective of geographical location
- +Service Provider**
 - . End-user experience of central application access is enhanced, providing premium service quality
 - . High quality on-line service delivery can be deployed across a wide range of access points
- +Corporate/Integrator**
 - . Accelerated access to online business applications
 - . Broadband access is possible, even when based on slow terrestrial access links

04 Integration

- +Integration within the UDcast product suite**

UDboost provides optimum TCP acceleration over hybrid IP networks, typically UDLR based. It supports specific optimizations for UDLR-based return links and its security companion, UDauth, to authenticate return links.
- +Integration with the customer's environment**

UDboost can be easily deployed on any existing infrastructure. Fully compliant to TCP standards, it supports traffic treatment within the TCP acceleration loop such as QoS shapers or IPsec encryption. Fully transparent, UDboost doesn't impact the configuration of sources or hosts outside of the TCP acceleration loop.