

Netskrt Edge CDN

Bringing Streaming Video to the Rural Edge

The Streaming Imperative

It's no secret that broadband subscribers are devoting more and more time (and bandwidth) to streaming live and on-demand "over the top (OTT)" video content. While this is a tremendous boon to the subscribers of Internet Service Provider (ISP), it comes at a significant cost. Backhaul costs for ISPs, already high in many rural areas, are poised to explode. This



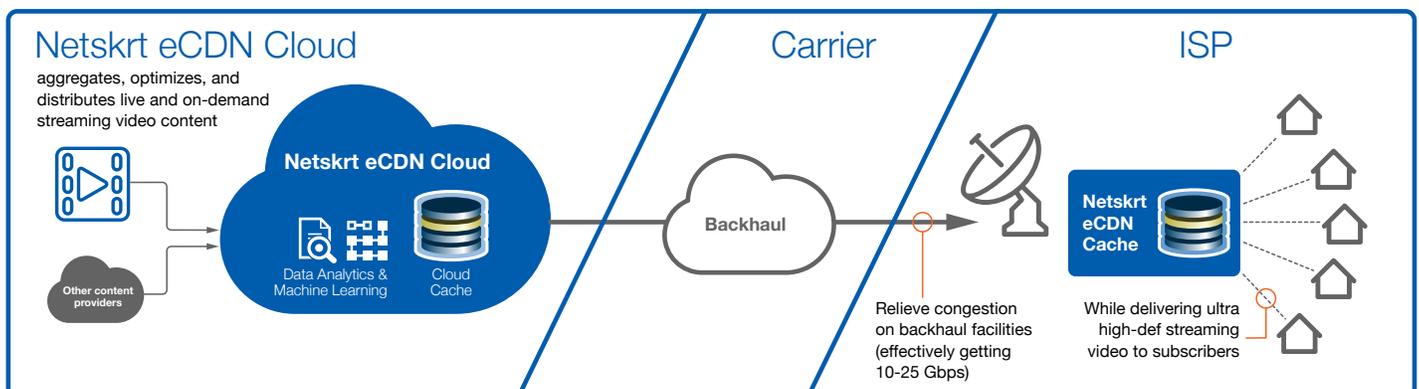
is where Netskrt Systems enters the picture. Netskrt offers a turnkey solution enabling ISPs to deliver HD/UHD video from streaming providers to all of their subscribers without burdening already over-taxed backhaul facilities.

Netskrt eCDN: How it Works

The Netskrt eCDN solution starts with the deployment of a Netskrt eCDN Cache within the ISP's subscriber-facing networks. The Netskrt eCDN cache performs two vital functions:

1. **Replication of live streaming content.** Critical for live feeds such as sporting events, stream replication enables all subscribers to simultaneously watch live events while dramatically reducing and synchronizing bandwidth consumption over constrained backhaul facilities. Each subscriber is still able to independently pause, rewind, and fast-forward live content.
2. **Dynamic caching of on-demand streaming content.** Typically, over 90 percent of streaming video requests can be instantly served from the local Netskrt eCDN Cache without consuming any bandwidth over backhaul facilities.

The result: unprecedented support for live and on-demand content, even 4K, without increasing backhaul capacity. In fact, the Netskrt eCDN solution provides the effect of upgrading backhaul facilities to 10-25 Gbps, without incurring additional backhaul charges, thereby enabling a broad range of new services that can be marketed to ISP subscribers.



Netskrt eCDN Cache Specifications

The Netskrt eCDN is a Xeon-D server enabling content and applications closer to the edge, while allowing ISPs to solve restricted space and power challenges and savings on costs.



Chassis

- 1U, 19-inch rackmount compatible
- Chassis dimensions
 - Depth: 12" (300mm)
 - Height: 1.75" (45mm) (1U)
 - Width: 19" (482 mm)
- Power
 - AC 110/220v input
 - DC 240W dual feed inputs

Environment

- Supports 0C to +65C operating range

Compute

- Intel Xeon D-multi-core processor
- 32 GB DDR4 DRAM

Storage

- 64TB SSD storage

Network IO

- 1 x 25/40 GBE QSFP+
- 2 x 10 GBE SFP+
- 1 x 1 GBE RJ45 (Management)
- Support SFP modules: 1000 Base-SX and LX
- Support SFP+ modules: 10G Base-SR and LR
- Support QSFP+ modules: 25/40 Base-MP0 and LC



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