

# BelugaCDN Key Features

## Superior Connectivity

- Robust Network
  - self-owned and operated, not outsourced
  - 9 strategic SuperPOPs across USA and EU
  - IPv4 + IPv6 dual stack
- Peering to major ISPs
  - multiple 10G & 100G to major world exchanges
  - shortest routes to key regions, including Brazil and India
- Redundant & DDoS Protected
  - high QoS w/ 100% uptime
  - enterprise Juniper hardware

## Consistently Fast Speeds

- Clients experience 10–15% speed improvement over enterprise CDNs.
- Up to 200% speed improvement over budget/low-cost CDN providers.
- Low error rate with uncongested network capacity towards all major networks
  - no service degradation during peak hours

## Advanced Features

- General
  - ultra-long cache retention
    - reduces origin bandwidth
  - instant cache invalidations w/ confirmation per region
    - real-time feedback
  - custom profiles for content
    - maximizes performance based on dataset size
  - real-time statistics
    - monitor site's performance in real-time, w/ updates every 10 sec
    - detailed geographical traffic reporting per region & country
    - native Elastic Beats support for event log export
    - raw logs export
  - self-driven portal
    - configure new properties with a few clicks
  - parent layer
    - mitigate cache warming traffic spikes
  - value & price
    - enterprise performance & features
    - sizable savings over other CDNs

- API
  - Complete control for resellers and those looking to integrate CDN into their platform
    - Create & configure properties
    - Manage & submit invalidations
    - Cache control & query string handling
    - SSL certificate setup & management
    - Segmented data of key, billable, metrics per property
    - Graphable data points, exported in a Highcharts compatible format
- Security
  - URL Signing & Token Auth
  - Proxy-based authentication
  - SSL/TLS
    - HTTP/2
    - OCSP Stapling
    - ALPN
    - Dynamic record sizing
    - Perfect forward secrecy
  - Geo-Blocking By Country/Region
  - Rate-Limiting By Country
- Video
  - latest protocol support
    - pseudo-streaming
      - mp4 / h.264 video is scrubbed on the CDN node
      - highly optimized for fast delivery of even cache-miss traffic
    - byte range requests
      - used by mobile clients
    - Apple HLS
    - MPEG-DASH