



Level 3 continues to change the business of content delivery as the first carrier to combine the advantages of an industry-leading Internet backbone with a sophisticated and proven Content Delivery Network (CDN) platform. This unique combination allows us to connect customers with the benefits of our high-performance, highly scalable service — and deliver those services in a simplified, flexible manner. Our full suite of CDN services allows you to deliver rich online content to global audiences with outstanding quality, speed and reliability.

The Level 3 CDN has over 35 strategically placed caching locations worldwide with 4,000 servers in North America, Europe, and Asia.

Level 3 Caching and Download Deliver High-Quality Content Quickly and Reliably Worldwide

In today's Internet-driven world, your audience demands instant access to your online content – whether they're accessing your company websites and online applications, or downloading music files or software. These demands for a faster, richer web experience, along with increasing file sizes and unpredictable traffic, can make it challenging to live up to user expectations without costly investments in web-hosting infrastructure.

On-Demand Scalability with Superior Performance

The Level 3 Caching and Download service, which leverages our powerful Content Delivery Network (CDN), offers you a cost-effective solution for quickly and reliably delivering content to audiences across the globe – even during peak traffic and flash crowds – so you can provide the performance they want while reducing digital delivery costs.

As one of the first major content delivery service providers in the industry, and the only one with its own global Tier 1 IP network, Level 3 has over 10 years experience delivering high-quality content, sites and online events for companies worldwide. Leveraging Level 3's robust, global network of caching locations, the on-demand scalability of our IP network and our full suite of content delivery services, you can create a caching and download solution that provides:

Unparalleled CDN Intelligence – Using over 35 strategically placed caching locations in North America, Europe and Asia and our patented Footprint[®] content-routing technology, our CDN is architected with the intelligence to quickly and reliably deliver your rich-media content to audiences anywhere from the closest and most optimal caching location.

Global Reach and Speed – The CDN leverages the Level 3 IP network, one of the fastest and most connected IP networks in the world. It offers the quickest route with the fewest “hops” between any two Internet locations.

Proactive Scalability – The CDN proactively scales caching server resources to meet real-time usage demands, including peak loads and flash crowds that require extra bandwidth.

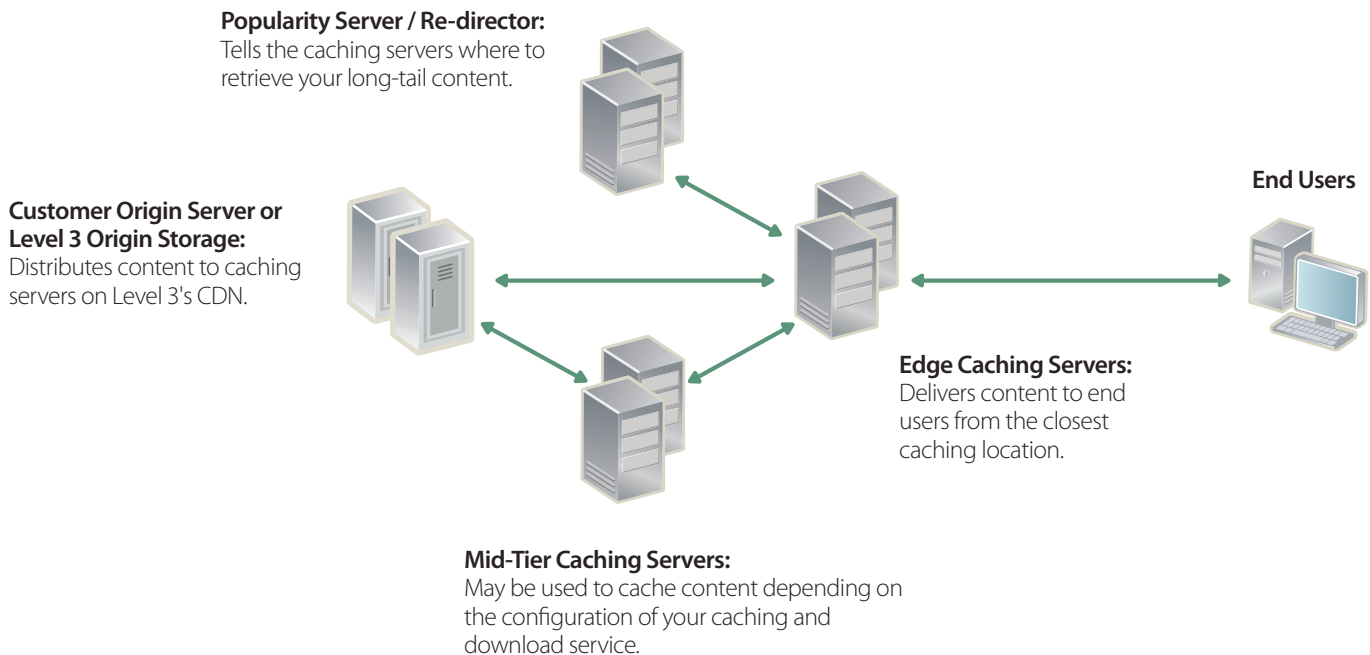


Flexible Service Models and Configurations – You can take advantage of several caching and download delivery models, including specialized services like Level 3SM Content Delivery for Extended Libraries (CDXL), and choose from numerous delivery features, including authentication, secure delivery, download receipts and geo-intelligence.

Online Management and Reporting – The Level 3 Media Portal gives you control and insight into your content delivery and usage with historical and real-time reporting, as well as real-time publishing and invalidation of content

How Caching and Download Works

- After configuration, a simple DNS CNAME change puts your content on the Level 3 Network.
- When an end user makes a request for content, the request is transparently redirected to our CDN, and it serves the content from Level 3’s most optimally performing edge caching server for that end user.
- If the content has expired, the edge server will retrieve it from a mid-tier caching server or from an origin server – either your origin server or a Level 3SM Origin Storage server, based on your configuration.
- If the content is CDXL-enabled, Level 3 applies advanced intelligence to redirect requests to the optimal path from storage to the end user, based on the object’s popularity at the time of the request. This option is designed for customers with long-tail assets or content with dynamic popularity profiles.



Flexible Delivery Models for Your High-Quality Content

Level 3 supports several standards-based methods for delivering content to meet your unique business needs, and gives you the flexibility to effortlessly move between services at different phases in your content lifecycle. Whether you would like to lower capital outlays, reduce risk, improve performance or boost cost efficiency, we have a solution to meet your needs.

Standard Caching: We deliver content from our global network of edge servers while you maintain the origin infrastructure. This option suits customers that have a set of popular assets, and already own an infrastructure.

Origin Offload: You upload content (via push or pull) to Level 3 Origin Storage servers within the Level 3 CDN. In turn, the CDN feeds the edge delivery network without adversely impacting your infrastructure. This option is particularly useful for customers with a well-defined set of popular content and an interest in outsourcing the origin infrastructure.

Comprehensive Service Features and Options

- Geo-Blocking and Geo Intelligence by Country, City, State, Zip Code, MSA or IP Address
- SLA Monitoring Byte Range Request Support (including Flash)
- Referrer Blocking
- Token-Based Authentication
- IP/CIDR Blocking
- Header Checking
- Foreground and Background Traffic Prioritization

- Resource Popularity Tracking
- Edge Compression (gzip, Deflate and Identity)
- Arbitrary Header/Value Processing
- Cookie Support
- Query String Handling
- Header Override Support
- Active or Passive Content Freshness Control
- Full Usage Logs with Auto-Download Tools
- Performance/Scalability Optimizations for Move Networks Content

A Full Portfolio of CDN Services from One Trusted Provider

Level 3 offers a comprehensive suite of content delivery services and transit IP services that complement our Caching and Download service to help you build a targeted and cost-effective content delivery solution. These services include Level 3® High Speed IP, Level 3® Streaming, Level 3SM Encoding, Level 3® Website Acceleration, Level 3® Traffic Manager, Level 3SM Origin Storage and Level 3® Vyvx® broadcast services.

Start Delivering the Highest-Quality User Experience Today

For more information about the Level 3 Caching and Download service, and how it can help you deliver fast, reliable content to your audiences worldwide, please call us today at 1.877.2LEVEL3, email us at: info@level3.com or visit: www.level3.com.

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