



## API-Delivery Network (API-DN)

Dramatically improve app speed and reliability for a global audience.

### Global enterprises need global reach.

Today we are seeing explosion of consumption. Enterprises must reach a growing global audience that has moved beyond the browser to thousands of mobile and social apps on hundreds of connected devices. But with these new markets and opportunities come higher expectations for app and service performance and an almost unlimited supply of market alternatives.

### Nobody will use a slow app.

With this explosion of consumption come new demands on your service and infrastructure. Enterprise markets are becoming more connected, with your brand being mixed into app platforms, social networks, and cloud services with increasing global reach. And today's 'hit economy' of instantly popular apps creates very short window of opportunity to make an impression with customers with high expectations. This means mobile and social apps create a higher, steeper, and less predictable demand curve than browser-based web apps. The quality of your customer's mobile app experience is only as strong as your ability to deliver fast, reliable, and consistent service to app end-users through your APIs. And you'll likely never build another app that doesn't mix in a 3rd party service. Your customer experience is now likely dependent on someone else's API.

### The Apigee API-DN

Apigee's API-DN (API Delivery Network) puts your API where your customers are, giving global enterprises global reach into the thousands of new market niches created by mobile, social, and cloud apps. You'd never launch a website without using a CDN (Content Delivery Network) for heavy, static content – what can you do for your dynamic content?

Apigee API-DN is like a CDN for your API, dramatically improving speed, reliability, and consistency of service delivery to improve app end-user experience. API-DN also improves your overall scalability and protects your backend by offloading processing-intensive API functionality to the local regions. API-DN is an add-on cloud service to Apigee Enterprise, can be deployed in as little as two weeks, and provides the following benefits.

### Improve API response time up to 10x.

Plugging your API in to Apigee's Global API Delivery Network can dramatically improve the speed of apps on apps on mobile, social, and cloud platforms. Results can be dramatic, with mobile apps performing up to 10x faster. How?

**Distributed API infrastructure** - replicate clustered API infrastructure in up to four global regions, serving dynamic content and executing API operational policy in the nearest region to the end-user.

**Response caching** –gives fine-grained control over dynamic content with programmatic API response caching.

**Offloading** - handle API operational policy including authorization, traffic management, and transformations in the regional gateways to accelerate service and protect your back-end.

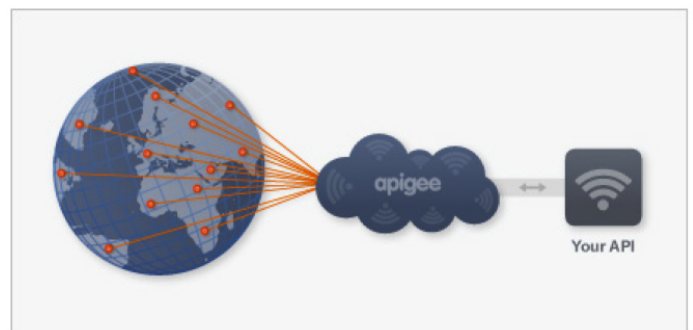


Fig 1. Apigee API-DN provides Global Enterprises with Global Reach.

### Improve API reliability and consistency.

API-DN gives you globally distributed API infrastructure that provides levels of availability approaching 99.99%.

**Redundancy** – API-DN deploys multiple clusters of Apigee Enterprise API Gateways to provide failover in the event of a regional failure.

**Consistency** – Provide more predictable service by routing traffic to the optimal endpoint based on network performance. Protect global users from issues impacting only a single region.

**Elasticity** – Apigee serves as an elastic buffer between apps

# Apigee API-DN

and your back end service – expanding capacity in periods of peak demand.

The same technology that makes your API faster and more reliable can also make 3rd party Web APIs or APIs you don't control faster and more reliable through caching and other API transformations.

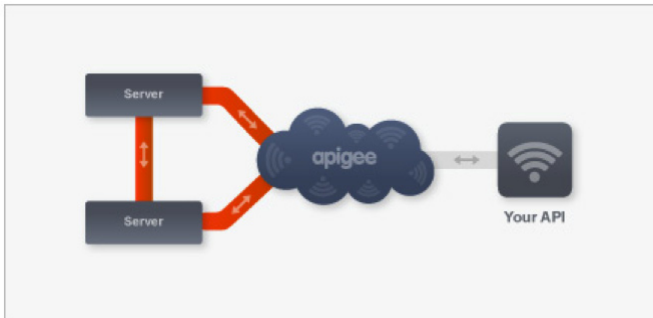


Fig 2. Provide availability levels of 99.99%.

## Scale service delivery.

Tune service delivery to meet the specific needs of a mobile or app partner, while providing significant cost and scalability benefits in service delivery.

**Mobile optimization** - Apigee transforms any API to run faster and more efficiently on mobile devices through streamlined content, response caching, pagination, and protocol and format transformations.

**CDN optimization** - API-DN can help you optimize your CDN usage and costs by dynamically selecting the closest CDN endpoint based on parameters such as client address.

**Improve 3rd party APIs** - API-DN technology can also be applied to make the APIs you consume more robust. Cache, transform and provide elastic capacity over backend Web and partner API to protect your customer experience from partner API issues.

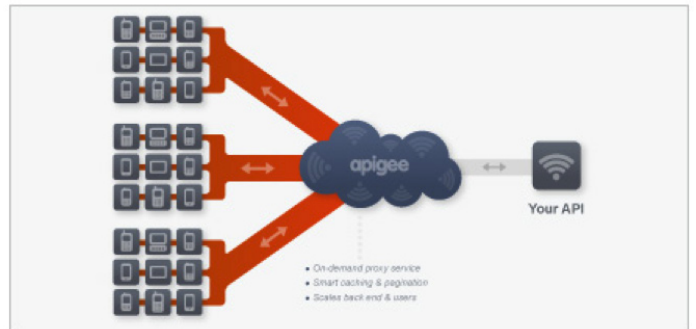


Fig 3. API-DN optimizes APIs for mobile device consumption.

## How It Works

Apigee API-DN is delivered as a fully managed cloud service leveraging Amazon EC-2. The API-DN service consists of deployments of a complete configuration of Apigee Enterprise API Infrastructure in up to 4 Amazon global regions.

Each region includes clustered Apigee Enterprise API Infrastructure. Critical runtime, content, and operational data is replicated. API requests are served out of the closest region to the end-user request.

API responses are cached according to business and operational rules to accelerate response times on cached content.

API-DN offloads traffic from the core enterprise service by executing operational policies on API traffic in the regional gateway clusters whenever possible. Offloaded functions can include authentication and authorization (including OAuth), traffic management (rate limiting and distributed quotas), analytics, audit and other processing intensive operations.

Redundancy and failover is built in to each region through deployment on multiple availability zones, and failover between regions provides additional redundancy to provide service availability levels up to 99.99%. Management and operational tools enable fine-tuning of service delivery, including CDN optimization.

**For more information or sales inquiries, contact [sales@apigee.com](mailto:sales@apigee.com).**

### About Apigee

Apigee is the leading provider of API products and technology for enterprises and developers. Over 200 enterprises like Comcast, GameSpy, TransUnion Interactive, Guardian Life and Constant Contact and thousands of developers use Apigee's technology. Enterprises use Apigee for visibility, control and scale of their API strategies. Developers use Apigee to learn, explore and develop API-based applications. Learn more at [www.apigee.com](http://www.apigee.com).

