

# Prizm Gateway™

The NonStop-based gateway for all APIs!

## Key Features

- ▶ Guardian-based
- ▶ Fault Tolerant & Scalable
- ▶ Browser-based Management Console
- ▶ Management Command Line Interface
- ▶ Logging & Diagnostics
- ▶ Authentication
- ▶ Service Deployment
- ▶ Load Balancing
- ▶ DoS Protection

APIs have become critical components of enterprise infrastructure and application architecture. Prizm Gateway™ makes it easy for users to enable, maintain, monitor, and secure all API connections throughout the entire enterprise.

APIs act as entry points for applications to access data from your backend services. With Prizm Gateway™, users can connect all of their RESTful APIs to enable real-time communication management for applications.

Prizm Gateway™ routes all API calls through a single point of entry while enabling traffic management, denial of service (DoS) protection, authorization and access control, service deployment, load balancing and monitoring. Calls are dynamically routed through the gateway based on attributes such as the request URI, HTTP method, or HTTP header value.

## Core Benefits

Prizm Gateway™ takes API calls from any client, determines which services are needed to fulfill requests and routes the requests to the appropriate back end service to provide a unified, secure seamless experience for the API provider and consumer.

▶ **Single Point of Entry** - Prizm Gateway™ provides a single point of entry for all APIs and provides added security and management simplicity for enterprise applications.

▶ **Web-based Graphical Interface** - The Prizm Gateway™ Console is easy to use and provides comprehensive management of the entire set of features. This allows for a short learning curve resulting in less time and money spent getting users up-to-speed.

## NonStop Fundamentals

**Guardian-based** - No need to have OSS, or any additional software installed. Much simpler installation and management for NonStop environments.

**Fault tolerant** - Eliminates the risk of downtime with hardware that is dual redundant everything, and system and application software that is robust and self healing. The goal of every NonStop developer is "no single point of failure".



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**Browser-based management console** - Modeled on our widely used LightWave Management consoles, the Prizm Gateway™ Console is easy to use and provides comprehensive management of the entire set of features. This allows for a short learning curve resulting in less time and money spent getting users up-to-speed.

**Management CLI** - Command line interface for configuration and management in addition to the browser-based interface. This allows users to manage the gateway using scripts or TACL macros.

**Logging & diagnostics** - Helps monitor the health of the gateway and helps resolve any functional issues that users might experience.

**HTTP Basic authentication** - Simple username/password authentication.

**JWT Authentication** - JSON Web Token Authentication, an open standard, for customers with more demanding authentication requirements.

**Canary deployment** - Allow for gradual deployment of new services in parallel with existing services, reducing the risk compared to rolling out a new version all at once.

**Load balancing** - The software automatically distributes incoming requests over multiple backend servers to distribute the request load.

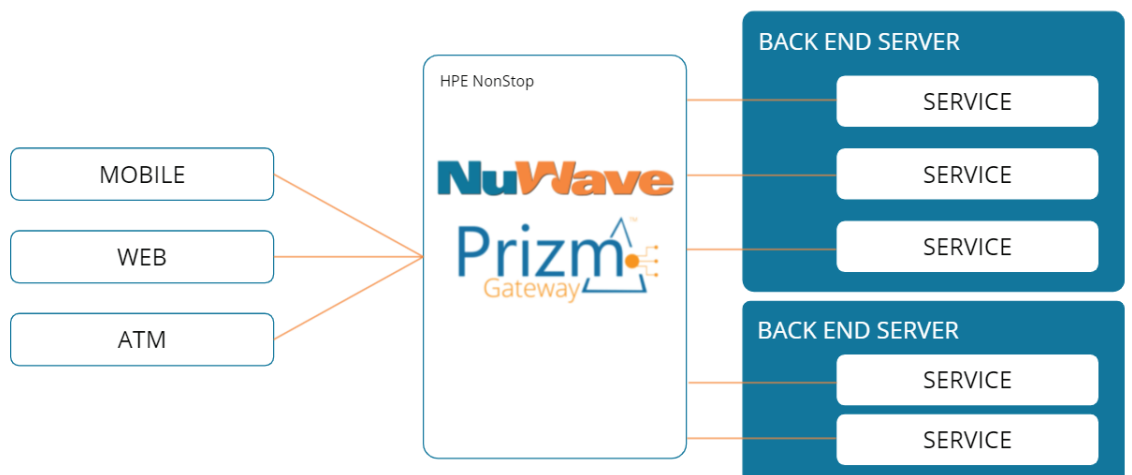
## Denial of Service Protection

**Rate limiting** - Limit the number of requests per client for a specified period of time that are passed to services to prevent overloading.

**Connection count limiting** - Limit the number of concurrent incoming connections to prevent overloading of services.

**Request size limiting** - Limit the size of incoming request messages to prevent overloading of services.

**IP address restriction** - Limit access to known good IP addresses, or prevent access from specific IP addresses.



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