	LightWave Server™	LightWave Client™
High Performance	✓	✓
Transaction (TMF) Support	✓	N/A
Security		
TLS 1.2	✓	✓
TLS 1.3	✓	✓
HTTP Authentication	✓	✓
Request Signing Support for Select Cloud Providers	N/A	✓
Authorization and Access Control	✓	✓
Standards		
JSON	✓	✓
XML	N/A	✓
Development/Management Tools		
Browser-Based Tools	✓	✓
Command-Line Tools	✓	✓
Performance Monitoring		
Event Logging	✓	✓
Diagnostic Logging	✓	✓
HTTP Logging	✓	N/A

LightWave Client™

LightWave Client™ is client-side middleware that allows applications running on HPE NonStop servers to securely access REST Web services anywhere, on any platform or operating system.

- Access public Web services like the Google Geocode API or R3 Corda
- Access private Web services like those from Avalara, Decisiv, or CyberSource Payments
- Leverage cloud services like Microsoft Azure, Amazon AWS, or Google Cloud
- Connect to your organization's API gateway to take advantage of services within your enterprise
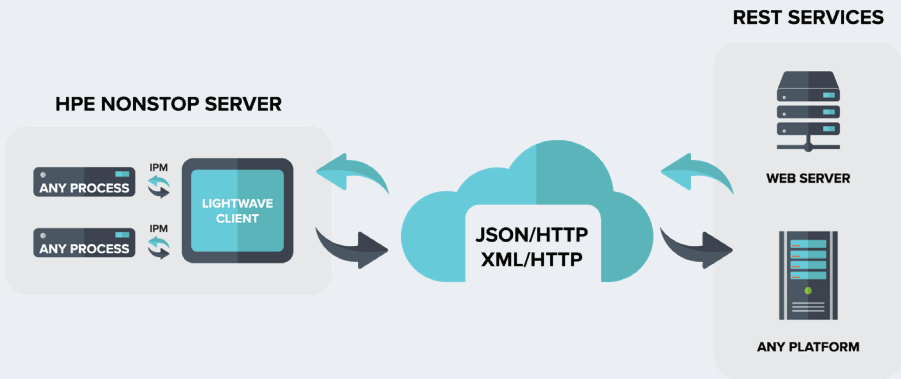
LightWave Server™

LightWave Server™ is server-side middleware that allows applications running on virtually any platform to securely access HPE NonStop applications through a standard REST interface.

- Access NonStop applications from a mobile application or IoT device like an Amazon Echo
- Integrate with payment engines like BASE24, Connex, or homegrown solutions
- Make NonStop services available through an API gateway like Mulesoft or IBM DataPower
- Connect your NonStop applications to software-as-a-service (SaaS) solutions like Salesforce
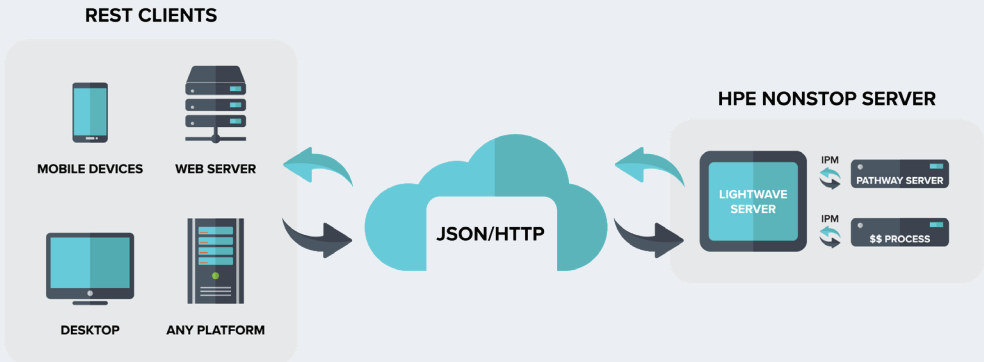
Get an edge with hybrid IT.

Hybrid IT is an environment that combines private with a public or shared infrastructure, such as those provided by HPE, IBM, Google, Amazon, and Microsoft. As REST is supported by all cloud solutions, LightWave software can provide the means for NonStop applications to work with cloud-based services by introducing REST APIs as the common language. This approach allows you to keep your valuable NonStop applications and their data in place while quickly integrating with cloud solutions.

Don't know how to leverage DLT technology to benefit your business? Don't worry—you've got this.

There has been a lot of positive talk about HPE NonStop and distributed ledger technology (DLT), but not much covering the ways that existing NonStop applications can work with DLT and blockchain solutions. NuWave's LightWave Client™ and LightWave Server™ can facilitate integration between NonStop applications and DLT platforms using REST services.

Some of your peers are already using microservices with NonStop, but there is still time for you to lead the way.

Microservices are an architectural approach to application development, where the application is built as a collection of small services. This approach has become massively popular, but how do existing NonStop applications take advantage of and integrate with microservices? NuWave's LightWave solutions can help NonStop developers move to a micro-services-based approach without having to re-write their entire applications. LightWave Server™ can securely expose component parts of a transaction as a REST service, and LightWave Client™ can consume microservices to bring their capabilities into your NonStop applications.

Easily connect NonStop applications to API gateways using LightWave software.

Many NonStop users are moving to an API gateway approach. API gateways define and provide access to all enterprise services and are generally available to all applications in the enterprise. The move to API gateways can affect NonStop applications in at least two significant ways: the NonStop application may need to make it's features available to an API gateway, and the NonStop application may need to access services from an API gateway. LightWave Client™ and LightWave Server™ can help in both cases.

Use NuWave solutions to connect to your payment engine and save hundreds of thousands.

HPE NonStop has long been the platform of choice for reliable payments processing, with applications like BASE24 and Connex driving large percentages of NonStop usage. These applications perform their core purpose extremely well but can sometimes prove difficult, and expensive, for new types of devices and applications to access. LightWave Server™ and LightWave Client™ can quickly and cost-effectively facilitate the modernization of these applications, allow their transaction processing capabilities to be accessed, and allow the functionality provided by external REST services to be brought into the payment application, thus extending its capabilities.

Open banking isn't just for the EU, but it can be a breeze with Web services.

While Europe led the way in open banking standardization with PSD2, many other countries and regions are following suit. HPE NonStop application developers in the banking and payments spaces need to be aware of these trends and work to integrate new and existing applications with this API-driven world. LightWave Server™ allows NonStop payment application services and their transactions to be exposed as REST services, while LightWave Client™ allows NonStop payment applications to consume REST services. These solutions allow NonStop payment applications to be integrated into an open banking ecosystem, quickly and easily.