

Solution brief

A smarter, more flexible way to manage static IP addresses

Persistant DNS can help modernize agency connectivity

Internet Protocol (IP) scarcity and latency

For years, many agencies have relied on public static IPv4 addresses to manage their devices. In today's mobile-first world, this legacy model faces two critical challenges.

The first is IPv4 scarcity. The supply of public static IPv4 addresses is limited – a finite resource. As connected devices continue to grow rapidly, agencies need a scalable alternative.

The second challenge is architectural bottlenecks. Public static IP uses a centralized routing model that can introduce latency through additional network hops. In a 5G world requiring real-time data processing, this can reduce performance for critical applications.

Future-proof your IP addresses

Verizon Persistent DNS is designed to provide the reliability of a static IPv4 address. It also offers highly scalable supply of addresses via a single portal. Here's how its two main abilities can work for you.

Persistent DNS is designed to provide comparable stability and reachability as traditional public static IP addressing but without the limited address space or configuration complexity. It uses a Fully Qualified Domain Name (FQDN) to address each of your devices. Each FQDN is assigned when ordered by the Persistent DNS system and follows a simplified naming scheme unique to your agency, making address spaces less complicated compared to traditional public static IPs that share address space with all other users worldwide. For ease of use, all of your devices can be managed within the Verizon portal.

verizon frontline

Key features and benefits

Low latency
Unlike legacy static IP, Persistent DNS is designed to process data closer to the device, helping reduce lag. This can support applications that require real-time data processing.

Consistent online identity
Persistent DNS provides a permanent host name, helping support consistent connectivity. It also simplifies network management by reducing the need for manual IP address configuration.

Simplified operations
Persistent DNS is designed to streamline the manual IP reservation and assignment process. IT administrators no longer need to manually configure routers with static IPs. The network handles mapping automatically, which can help reduce configuration errors and deployment time.

Future-ready architecture
Built for the 5G standalone core, Persistent DNS is designed to provide a migration path from 4G to 5G, supporting advanced capabilities for your evolving smission needs. Availability may vary by location and device.

Why Verizon

We help agencies access the tools and services they need to support their missions. Verizon has a long history as a leader in networking services, taking the latest technologies and creating new ways of communication. Our technical experts can work with you to find the right solutions for your unique needs.

- America's most reliable 5G network[1]
- America's best 5G network[2]

Learn more

It's a fast, simple way to manage your IP addresses. Persistent DNS can lessen your device administration, helping free you to concentrate on what matters most. To get started, contact your Verizon Senior Account Manager.

1. Based on RootMetrics® State of 5G Report, United States, 1H 2026. Tested with best commercially available smartphones on three national mobile networks across all available network types. Your experiences may vary. RootMetrics rankings are not an endorsement of Verizon.
2. Ibid.

© 2026 Verizon. VZSB5241126

verizon frontline