


COMCAST
BUSINESS

A man with short brown hair, wearing a light blue button-down shirt and a black lanyard, is looking down at a laptop. He is standing in a server room with rows of server racks and blue lighting in the background. A large blue circle is overlaid on the bottom left of the image, containing the main title and a short paragraph.

Modernizing federal networks with SD-WAN

Federal agencies are on a mission to transform their digital infrastructure. Advanced networking solutions can help to drive efficiency, enhance security and support public sector operations.

Introduction

In an era where technology evolves rapidly, many federal agencies still face the challenge of maintaining and working around the limited bandwidth and complex, disparate systems that may exist with legacy network infrastructures. Digital applications and cloud adoption, however, demand the flexibility, scalability and security that modern networks can provide.

Software-Defined Wide Area Networks, or SD-WANs, can help agencies revolutionize how they manage and use their networks by leveraging software to intelligently route traffic across multiple types of connections, such as broadband and LTE, to connect users to applications based on real-time network conditions.

Instead of relying on dedicated circuits for data exchange, SD-WAN uses encrypted tunnels over the Internet, allowing IT teams to centrally monitor and rapidly adjust network performance. This technology enhances scalability and flexibility by enabling customers to easily add carrier-independent WAN connections, adapting

to changing demands. As a result, SD-WAN can help optimize traffic flow and keep data secure across various network paths, simplifying network management and providing a cost-effective solution.

For years, Comcast has offered SD-WAN solutions to enterprise customers, helping them optimize network performance and improve operational efficiency.

Now, Comcast Government Services is using this expertise to provide federal agencies with their [SD-WAN Government solution](#), which enhances connectivity, offers robust security solutions and streamlines network management.

“We are leveraging the great amount of experience that we have with our enterprise-grade solution that Comcast Business has been deploying for their customers,” said Sachin Patel, vice president of government services strategy and operations for Comcast Government Services. “We have that deep understanding of the technology itself, how it works, and are able to deploy an advanced solution.”



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–Sachin Patel, VP, Government Services Strategy & Operations, Comcast Government Services

Scalable and flexible capabilities for modernizing agencies

Federal agencies are increasingly adopting SD-WAN solutions to modernize their network infrastructures. With advanced capabilities such as dynamic routing, centralized management and robust security features, SD-WAN helps agencies to meet demands while delivering reliable, high-performance connectivity to their users.

Comcast provides a centralized management interface that allows administrators to monitor, configure and manage the entire network from a single location, simplifying operations and enhancing visibility into the network's performance and health, said Sameer Patel, director of federal engineering for Comcast Government Solutions.

"With SD-WAN, users have a lot more granularity, flexibility and visibility into their environments," said Sachin Patel. "That robust feature set and being able to offload management to an enterprise-grade vendor



that has the expertise and experience to do it on the customer's behalf would be a great benefit for them."

For instance, an agency managing emergency services could implement SD-WAN to help streamline its operations, and boost the performance of its applications used by field offices across the country. Taken together, these improvements can result in fast data processing times and could help emergency responders to respond and be on the scene quickly in critical situations.

Alternatively, federal law enforcement agencies can leverage SD-WAN to enhance their data-sharing capabilities between field offices and headquarters. By implementing SD-WAN, these agencies can improve communication and coordination during operations, enhance network security and streamline their response to critical incidents.

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-Sachin Patel, VP, Government Services Strategy & Operations, Comcast Government Services



Robust security and compliance for high-touch customer experiences

SD-WAN has emerged as an essential tool to help deploy cybersecurity solutions across a network while providing the flexibility and comprehensive visibility necessary to meet the unique needs of federal operations. It deploys features such as end-to-end encryption, firewall integration and unified threat management, for the isolation and effective management of network traffic regardless of location. Additionally, SD-WAN's dynamic network segmentation allows for effective isolation of data, reducing the risk of lateral movement within the network in the event of a breach.

Comcast can deploy their SD-WAN Government solution at a pace that suits government needs, allowing gradual migration rather than a complete overhaul. The technology supports hybrid environments as more workloads migrate to the cloud, enabling a smooth transition

to a cloud-first approach. Agencies can modernize at their own pace by doing this process in stages, integrating with existing network infrastructure while transitioning to the modernized SD-WAN environment.

From a customer support perspective, Comcast offers a comprehensive service package that includes regular communication with sales, program and engineering teams. This support ensures that agencies receive the assistance they need to effectively implement and manage their SD-WAN solutions.

"Customers can have uniform configuration policies across all of their devices, and in turn, can quickly act if there's new threat information available," said Sachin Patel. "So we can implement changes quickly and are flexible and agile enough to help mitigate attacks."



Comcast's SD-WAN Government solution also helps federal agencies address [FISMA requirements](#) by providing comprehensive logging, monitoring and reporting capabilities.

"Our SD-WAN Government solution helps improve operational efficiency, enabling agencies to focus on their core missions with confidence in their network infrastructure," Sameer Patel said.

"Our SD-WAN solution not only helps improve operational efficiency, but also enables agencies to focus on their core missions with confidence in their network infrastructure."

– Sameer Patel, Director, Federal Engineering, Comcast Government Service

Featuring a highly reliable and scalable Ethernet infrastructure with extensive nationwide coverage, Comcast's SD-WAN Government solution is readily available and easy to implement.

"We can be your one-stop-shop for both your transport services and your SD-WAN services that run on top of the transport," said Sachin Patel. "Why not partner with a single entity that's able to provide you with both the underlay and the overlay service with the expertise that we bring with it?"



Learn more about how Comcast Government Services is helping federal agencies update their systems and better serve their citizens.

