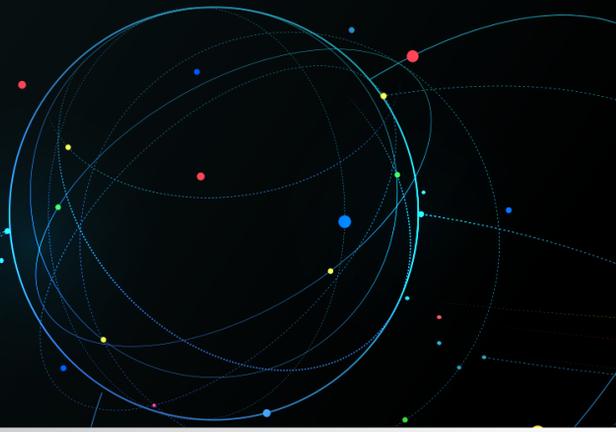


# The Evolution of Federal Network Modernization

MeriTalk, in partnership with Ciena, examined the benefits of moving legacy networks to modern infrastructures and the steps agencies can take to build a more adaptive future.



## Mission: Modernization

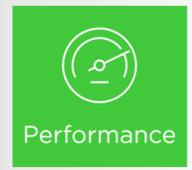


of Feds say mission success depends on IT modernization<sup>1</sup>



have a roadmap for modernizing and streamlining their legacy network infrastructure<sup>2</sup>

Top priorities:<sup>3</sup>



## Legacy Setbacks



**Time-division multiplexing (TDM)** formed the core of many government networks – even as more modern network technologies came on the scene.

But in recent years ... the benefits of modern network architectures have become too great to defer<sup>4</sup>



**73%** of government IT leaders say TDM migration is a high priority<sup>5</sup>



And **72%** of Feds say that failure to integrate legacy systems will strangle IT modernization efforts<sup>6</sup>

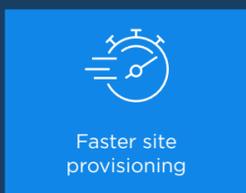


We still have many legacy applications that are at the core of agency business and operational processes and those require modernization”

– Former Federal CIO, Suzette Kent<sup>7</sup>

## Why Evolve?

Benefits to adaptive networking:<sup>8</sup>



Modern networks accelerate the mission:<sup>3</sup>

**58%** Improve cybersecurity defense

**44%** Offer the ability to virtualize in the near future

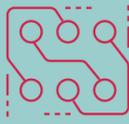
**36%** Reduce burden on IT staff

## Building an Adaptive Future

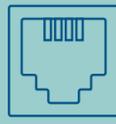
Key steps:<sup>5</sup>



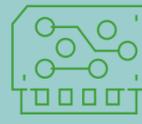
of Fed IT leaders say they see **packet-based IP architectures** as the primary replacement for TDM



say they favor **Ethernet-based private lines** to replace TDM



indicate **multiprotocol label switching (MPLS)** will be part of their transition



Ciena partners with government organizations to ensure mission-critical TDM services remain as agencies modernize their network infrastructure.

To learn more, visit: <https://www.ciena.com/government>

To read more about TDM migration, visit: <https://www.ciena.com/insights/articles/how-to-get-tdm-migration-going-for-your-government-network.html>

<sup>1</sup> Reimagining Government IT: An exploration of shared visions and challenges from IT's biggest players  
<sup>2</sup> Cloud Complexity: Navigating the Network Piece of the Federal Cloud Puzzle  
<sup>3</sup> The Promise of an Adaptive Network  
<sup>4</sup> How to get TDM Migration Going for Your Government Network  
<sup>5</sup> Why the Time is Now to Transition TDM to IP 2019  
<sup>6</sup> Modernizing the Monolith: Unlocking the Legacy Data Dilemma  
<sup>7</sup> Federal CIO Kent Rings in Pandemic as 'New Era' of Modernization  
<sup>8</sup> Real Improvements, Real-life Gains: Enterprises Realize the Benefits of Adaptive Networking