# **Connecting Agencies to the Future**

Traditionally, branch offices and individual users working outside the main office have taken poor network and application performance for granted. They recognized that the enterprise network was designed with the assumption that everyone would be working within the network perimeter. But that's no longer the case. Increasingly, agencies are turning to Software-Defined Wide Area Networks (SD-WANs) to provide better services to the extended enterprise – without compromising on either performance or security.

### The Future is Distributed

For many agencies, the extended enterprise is a given, as more and more of their end-users connect to the enterprise via the internet.

What percentage of people and offices at your organization under normal operations primarily connect to the Enterprise via the internet? **− 13%** Zero or almost none 35% I don't know **14%** Up to 25%

8% Between 25-50% 11% Between 19% More than 75% 50-75%

But for many people, the importance of reliable, secure remote access became most apparent during the COVID-19 crisis. Remote access capabilities across government received mixed reviews.

Which of these statements best describes your organization's experience with remote access to enterprise applications: 16% It is always **16%** It is always fast slow and frustrating and reliable **18%** It is rarely fast and reliable

**51%** It is sometimes

fast and reliable

## **The Drivers for SD-WAN Adoption**

Agencies have run into many problems with traditional WAN solutions, but two stand out: Performance problems and users' complaints about performance problems.

**Unpredictable** performance of

internet/SaaS applications

When connecting remote offices to a global WAN,

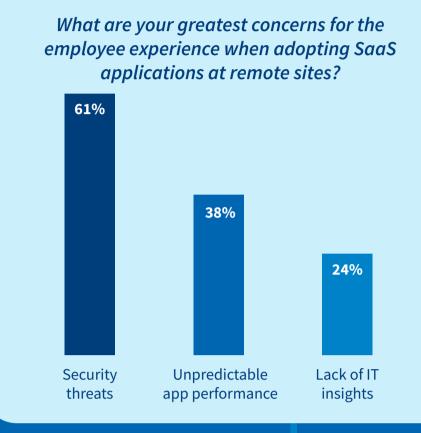
what challenges are encountered most often?

Users complain about poor or slow performance

**Complexity of network** management

especially as agencies rely more on software-as-a-service solutions.

But security concerns also are driving adoption,



enable remote offices and users to connect directly to cloud-based solutions, rather than routing all traffic through the agency's central security stack.

As agencies look for SD-WAN solutions, security tops the list of key capabilities – most notably the ability to

important for your enterprise remote sites?

What advanced SD-WAN

capabilities are most







on-going need for better perimeter-based security.

Still, agencies are working out how to balance the need for distributed security capabilities with the

statements best describes your organization's current approach to security?

Which of these

within the perimeter

29% Keeping all security

**27%** Keeping security

primarily within the

**29%** Striking a balance

beteween perimeter-

perimeter security but focused on the edge

**16%** Maintaining

#### perimeter, but and edge-based security augmented somewhat

90% 70% 30.8%

Market watchers see SD-WAN emerging as a prominent solution in the next several years.

**SD-WAN Looms Large In Emerging Network Strategies** 

of WAN edge infrastructure refresh initiatives will be based

on Virtual Customer Premises Equipment (vCPE) or SD-WAN appliances by 2023, up from less than 40% today Source: SDX

compound annual growth rate between 2018 and 2023 will drive the SD-WAN market to reach \$5.25 billion

Source: IDC

of enterprise organizations will deploy intent-based networking by 2025, and SD-WAN and other

be the foundation Source: Research and Markets

software-defined technology will

#### SD-WAN to help them take advantage of the new front end of the TIC 3.0 learning curve, with many flexibilities that come with the Trusted Internet respondents saying they were unaware of what was Connections 3.0 guidelines. in the works at their agencies.

The Future Is Now: The TIC 3.0 Era

Rank the importance of the following WAN modernization use cases for your remote office connectivity (1=highest priority).

Insightful performance and security analytics

Secure cloud-direct networking with TIC 3.0 integration

Going forward, many agencies are looking to

3 Low cost, high throughput internet transport Ease of central management and optimization Advanced traffic engineering and optimization LTE/5G wireless access But interest in TIC 3.0 is on the upswing. Asked to rank the importance of integrating SD-WAN with

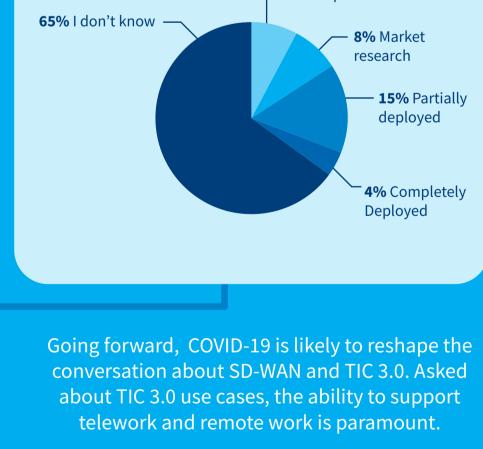
new cloud-based TIC 3.0 guidelines, the scale

clearly tips in favor of its importance.

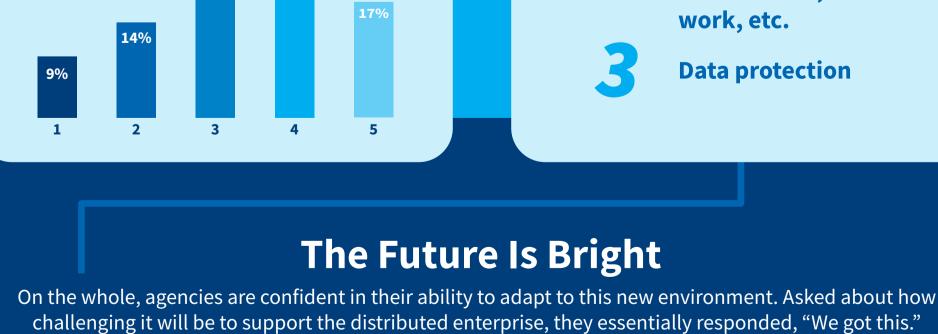
On a scale of 1 (not at all) to 5 (extremely

What are your plans for SD-WAN? 8% No plans

On the whole, the federal government is still on the



important), to what extent is integration of SD-WAN with new cloud-based TIC 3.0 capabilities a priority for your organization?



What TIC 3.0 use cases are most important for your organization? **Elastic, secure access** for teleworkers

**Ease of security** policy management across cloud, remote

work, etc.

**Data protection** 

The Future Is Bright



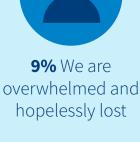
11% This will be a smooth and effortless transition



62% There will be bumps in the road, but we have a plan







### unsure how to get

**How Swish and Riverbed Help** 

Riverbed is a strategic partner in Swish's Performance Engineering practice, which helps agencies gain critical insights and visibility in their IT operations and optimize their business impact on the enterprise. Riverbed SteelConnect EX is a highly agile

SD-WAN integrated with SaaS and cloud acceleration, WAN optimization and advanced security. The solution meets the needs of both lean IT organizations looking for maximum simplicity and complex enterprise networks requiring maximum flexibility. To learn more visit swishdata.com and riverbed.com





