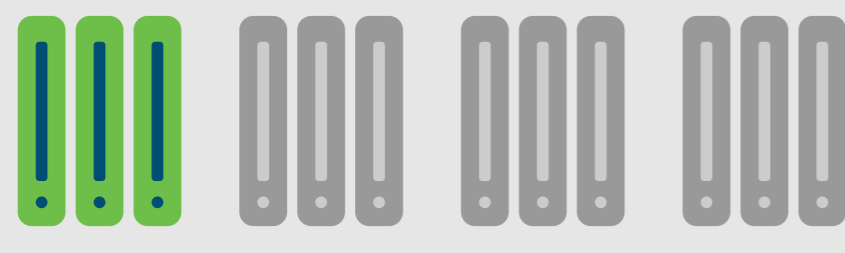


# Lowering WAN costs and improving user experience

Reduce operational costs while securing your branches.



Recurring WAN service costs represent **21% to 25%** of the cost to support a typical end-user environment.\*

Improve your WAN experience and evolve to an intent-based network in four easy steps:



### Step 1: Move to hybrid WAN

Are WAN costs getting out of control?

[See more](#)



### Step 2: Deploy SD-WAN

Is managing your branches a burden?

[See more](#)



### Step 3: Secure branch connectivity

Are you concerned about security breaches?

[See more](#)



### Step 4: Improve the user experience

Is user experience predictable?

[See more](#)

## Learn about SD-WAN

[Download IDC research](#)

### Step 1: Move to hybrid WAN



#### Ask yourself

Are increasing WAN bandwidth costs eating into your IT budget and delaying other critical initiatives?



#### Something to consider

By complementing or replacing costly MPLS connections with Internet or LTE/3G/4G links, you can increase available bandwidth while reducing costs.



#### Recommended solutions

- [Cisco SD-WAN](#)
- [Cisco Meraki SD-WAN](#)
- [Lifecycle services for SD-WAN](#)

Benefits: Save up to 40% on WAN OpEx costs by reducing WAN service charges and greatly simplifying management.



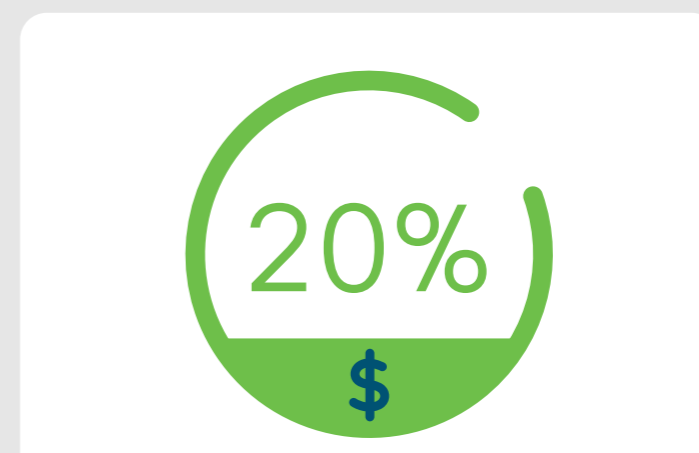
#### Find out more

[SD-WAN At-a-Glance](#)

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#### Did you know?

Enterprises expect 20% cost savings from hybrid WAN and SD-WAN.



Source: IDC Worldwide SD-WAN Survey Special Report, May 2016.

### Step 2: Deploy SD-WAN



#### Ask yourself

How do you simplify management and reduce the OpEx of managing the WAN and distributed branches?



#### Something to consider

By centralizing policy-based management of all branches from the cloud, you simplify and automate management tasks.



#### Recommended solutions

- [vManage for Cisco SD-WAN](#)
- [Cisco Meraki Dashboard for Meraki](#)
- [SD-WAN adoption services](#)

Benefits: Provision, monitor, and configure all branches from a central management console. Our Services experts can help you successfully create a detailed design and implement your SD-WAN solution.



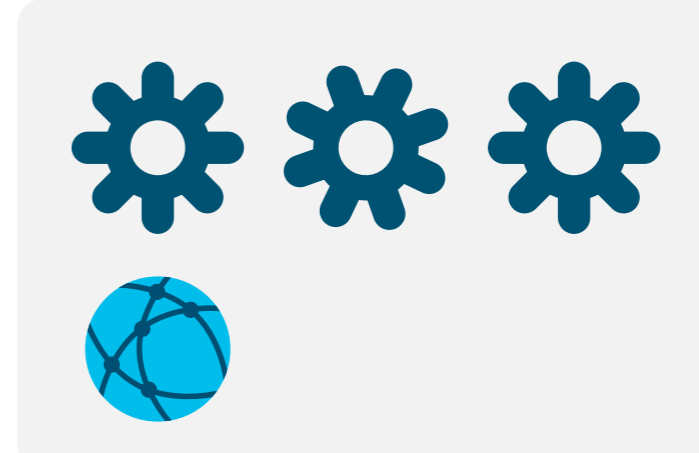
#### Find out more

[View the SD-WAN infographic](#)

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#### Did you know?

Organizations spend three times more on network operations than on the network.



Source: Study of network operations for Cisco, McKinsey, 2016.

### Step 3: Secure branch connectivity



#### Ask yourself

Are you slowed down by the security concerns of using Internet broadband for branch connectivity?



#### Something to consider

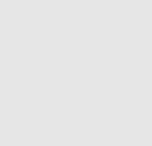
To adequately protect your branches and data, you need a complete branch security solution, including VPNs, segmentation, secure direct Internet access, and next-generation firewalls at each branch.



#### Recommended solutions

- [Branch router security](#)
- [SD-WAN segmentation](#)
- [Cisco Meraki Security and SD-WAN](#)
- [Cisco Umbrella](#)

Benefits: Securely connect your users to the WAN edge to the cloud.



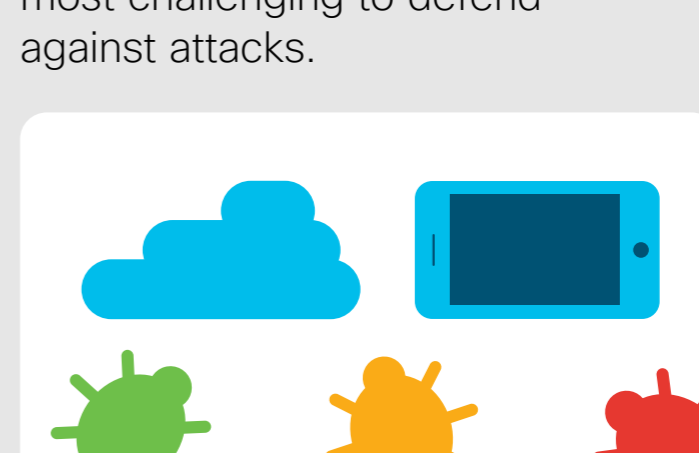
#### Find out more

[See how to simplify](#)

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#### Did you know?

Of security professionals, 59% say that cloud infrastructure and mobile devices are among the most challenging to defend against attacks.



Source: Cisco 2017 Midyear Cybersecurity Report.

### Step 4: Improve the user experience



#### Ask yourself

Are you concerned about the performance and user experience of using Internet broadband for your branch connectivity?



#### Something to consider

By using WAN analytics, application-aware path optimization, prioritization, and virtualized cloud routers, you can deliver on-premises and cloud-application performance that meets SLAs and user expectations.



#### Recommended solutions

- [Cisco SD-WAN Cloud onRamp](#)
- [Cisco Meraki Insight](#)
- [Cisco vAnalytics](#)

Benefits: The Cisco SD-WAN solution uses analytics and learns through network, application, and device data to optimize the application and SaaS experience.



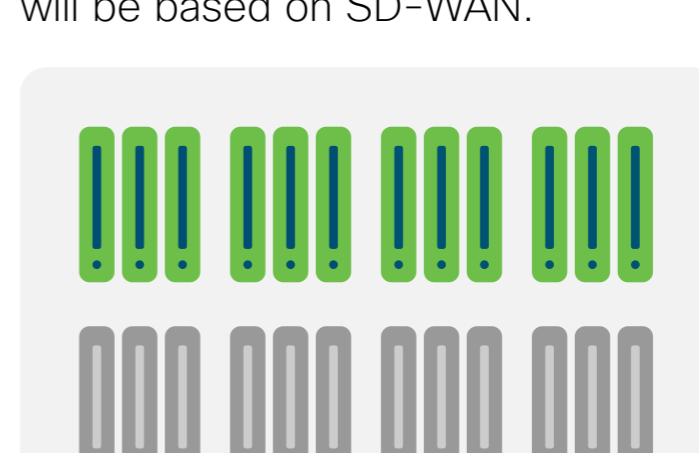
#### Find out more

[Read SD-WAN with AWS analyst paper](#)

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#### Did you know?

By 2020, more than 50% of WAN edge infrastructure refresh initiatives will be based on SD-WAN.



Source: Gartner, Technology Insight for Software-Defined WAN (SD-WAN), Andrew Lerner, Neil Rickard, Ted Corbett, 2017.

## Test network readiness

[Download IDC research](#)

Transform to an intent-based network with Cisco DNA

\* Source: Gartner, Cloud Needs a New WAN, Mark Fabbri, Neil Rickard, 2016.