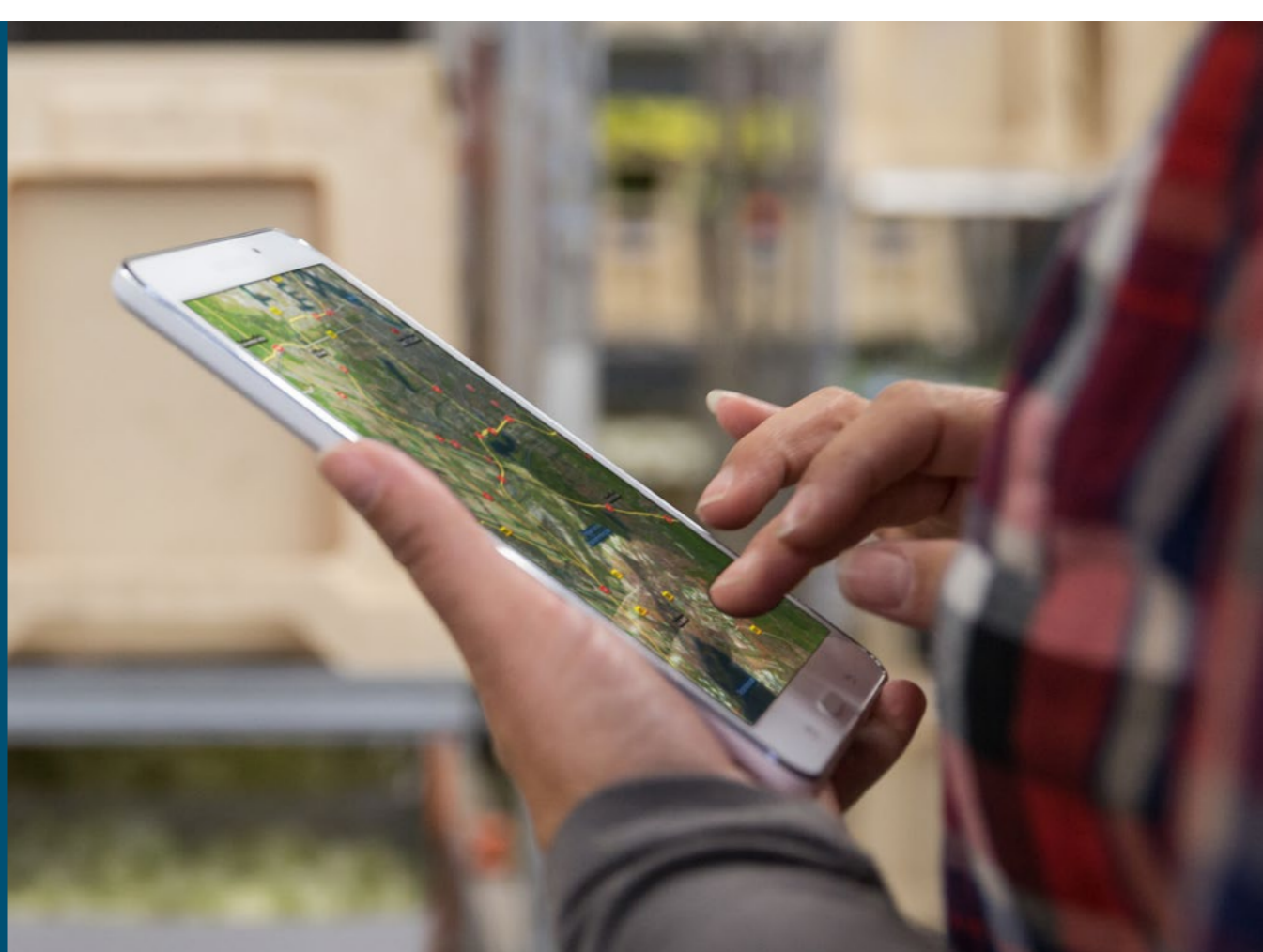


# Scaling for the mobility and IoT explosion

A network that can be simply managed will scale to meet the needs of mobility and IoT for your critical digital initiatives.



In 2020, there will be 63 million new devices attaching to enterprise networks per second.\*

Simplify your network management and evolve to an intent-based network in four easy steps:



### Step 1: Scale wireless

Is your wireless network ready to scale?

[See more](#)



### Step 2: Automate networking

Is complexity under control?

[See more](#)



### Step 3: Segment users and devices

Is security a headache?

[See more](#)



### Step 4: Extend to IoT environments

Can your network support OT?

[See more](#)

## See your savings with Cisco DNA

[Calculate your ROI](#)

### Step 1: Scale wireless



#### Ask yourself

Will your wireless network scale to give all your users, customers, and devices the service they need?



#### Something to consider

Only a wireless infrastructure that is optimized for high performance and density can cope with the influx of users, devices, and demanding applications.



#### Recommended solutions

- [Cisco 802.11ac Wave 2 access points](#)
- [Multigigabit-enabled Catalyst switches](#)
- [WLAN Advise and Implement Service](#)

Benefits: By upgrading your wireless network to 802.11ac Wave 2, you significantly boost performance, provide a better user experience, and support applications more effectively.



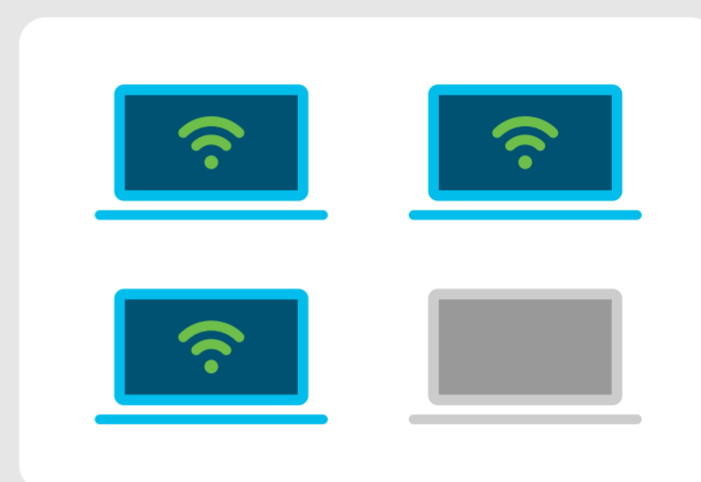
#### Find out more

[See the upgrade guide](#)

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#### Did you know?

Over 75% of IoT deployments are using or will use Wi-Fi connectivity.



Source: IDC PlanScape: Optimizing the WLAN for IoT, IDC, June 2016.

### Step 2: Automate networking



#### Ask yourself

Is your team challenged with managing the growing complexity and scale of your wired and wireless network?



#### Something to consider

You can start your journey to intent-based networking by automating repetitive administration tasks like provisioning and configuration to reduce the management burden.



#### Recommended solutions

- [DNA Center](#)
- [DNA Advantage software](#)
- [DNA Center Advise and Implement Service](#)

Benefits: With Cisco DNA Center automation capabilities, you can reduce operating expenses by 61%\*\*. These capabilities include zero-touch provisioning, end-to-end QoS policy deployment, and simplified software image management. Our Services team can get you on the fast track to automating your network.



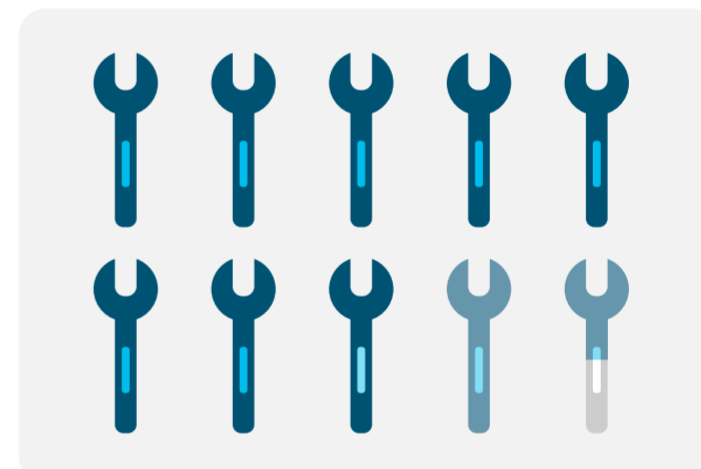
#### Find out more

[Watch a DNA Center demo](#)

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#### Did you know?

80-95% network changes are done manually.



Source: McKinsey Study of Network Operations for Cisco - 2016.

### Step 3: Segment users and devices



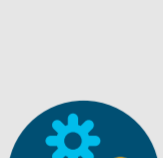
#### Ask yourself

Is the growth in mobile users and IoT devices and guest Wi-Fi causing security headaches?



#### Something to consider

By automating policy-based network segmentation, you can easily protect groups of users and devices and can radically reduce your risk of attacks spreading – even zero-day attacks.



#### Recommended solutions

- [Software-Defined Access \(SD-Access\)](#)
- [Identity Services Engine \(ISE\)](#)
- [Security Segmentation Service](#)

Benefits: SD-Access easily secures all users, devices, and applications with centralized, identity-based policy and segmentation companywide.



#### Find out more

[Read analyst report on SD-Access](#)

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#### Did you know?

Attackers can infect 100,000 IoT devices in 24 hours.



Source: Cisco 2017 Midyear Cybersecurity Report.

### Step 4: Extend to IoT environments



#### Ask yourself

Do you need to take control and streamline management of your extended enterprise networks (warehouses, outdoor spaces, and more)?



#### Something to consider

Imagine the cost savings and operational efficiency you can achieve with a single network for IT and OT that can apply consistent policy across the extended enterprise.



#### Recommended solution

- [SD-Access Extension for IoT](#)

Benefits: SD-Access Extension for IoT allows you to extend policy and segmentation to your OT environments. Get expanded control and security in industrial, outdoor, and IoT environments.



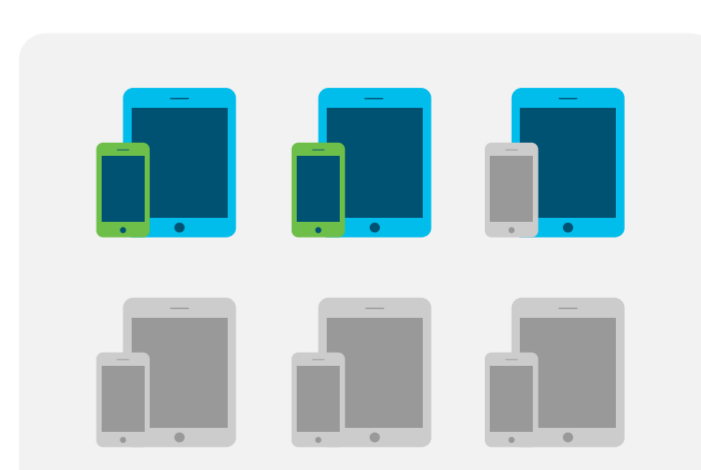
#### Find out more

[Read paper on extended enterprise](#)

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#### Did you know?

By 2020, 46% of network devices will be machine-to-machine or IoT.



Source: Cisco VNI Report - 2016.

## See your savings with Cisco DNA

[Calculate your ROI](#)

Transform to an intent-based network with Cisco DNA

\* Gartner, 2017 Strategic Roadmap for Networking, Danilo Ciscato, Mark Fabbri, Lisa Pierce, February 2017.  
 \*\* Cisco TCO analysis of a large enterprise customer.