Eliminate the Wired Bottleneck with Cisco

Multigigabit Technology We are living in the digital age. Always-on connectivity is driving new wireless

standards like 802.1ac Wave 2 and 802.11ax. But wireless has now exceeded the capacity of your wired infrastructure, creating a bottleneck.



Data Traffic (2016-2021*)

Repercussions of Digital Transformation



Growth in Mobile















Did You Know?

Standards Were **Established** Originally based on CSMA/CD, Ethernet standards are 38 years old

Number of Ethernet Switch Ports Sold (By Speed) 2500 100 Gbps

2000

1500

1000

40 Gbps

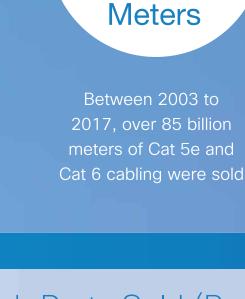
10 Gbps

1000 Mbps

100 Mbps

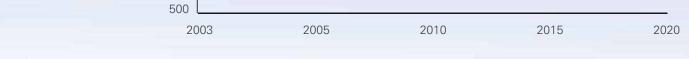
Link speed (b/s)

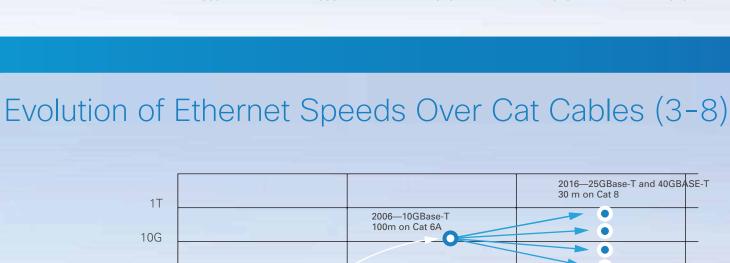
1G



Billion **Ports** More than 5.6 billion 100BASE-T/1000BASE-T switch ports in the last 20 years

5.6





Dell'Oro Group Ethernet Switch 5-year Forecast Jan 2017

More than 5.6 billion 100BASE-T

& 1000BASE-T switch ports

Another 2.4 billion more ports

expected to be added by 2022

shipped in last 20 years.

Speed in Development

Ethernet Speed

2016—2.5GBase-T and 5GBASE-T

100 m on Cat 5e/Cat 6

100m on Cat 3 10M 1990 2000 2010 2020

1999—10Base-T

1995—100Base-TX 100m on Cat 5

Wireless Exceeded the Capacity of Wired Networks in 2016 with 802.11ac Wave 2





Mission Critical

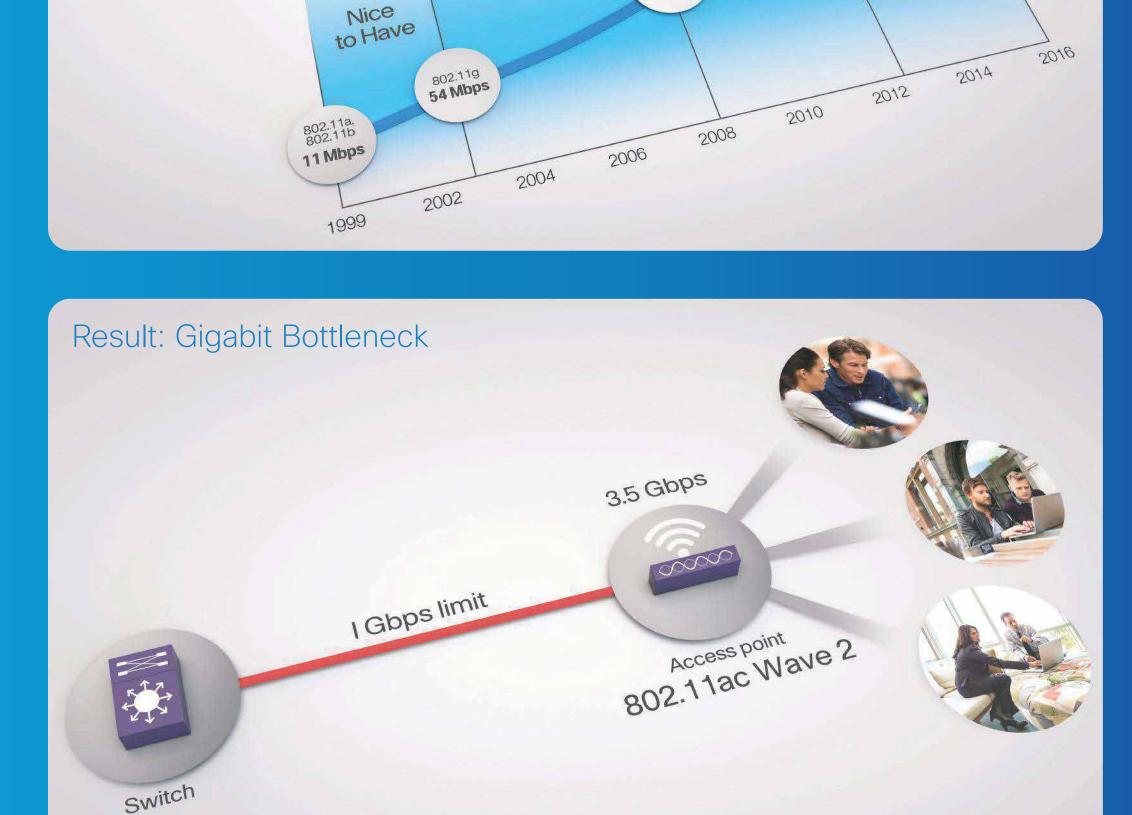
1 Gbps

Media Rich **Applications**

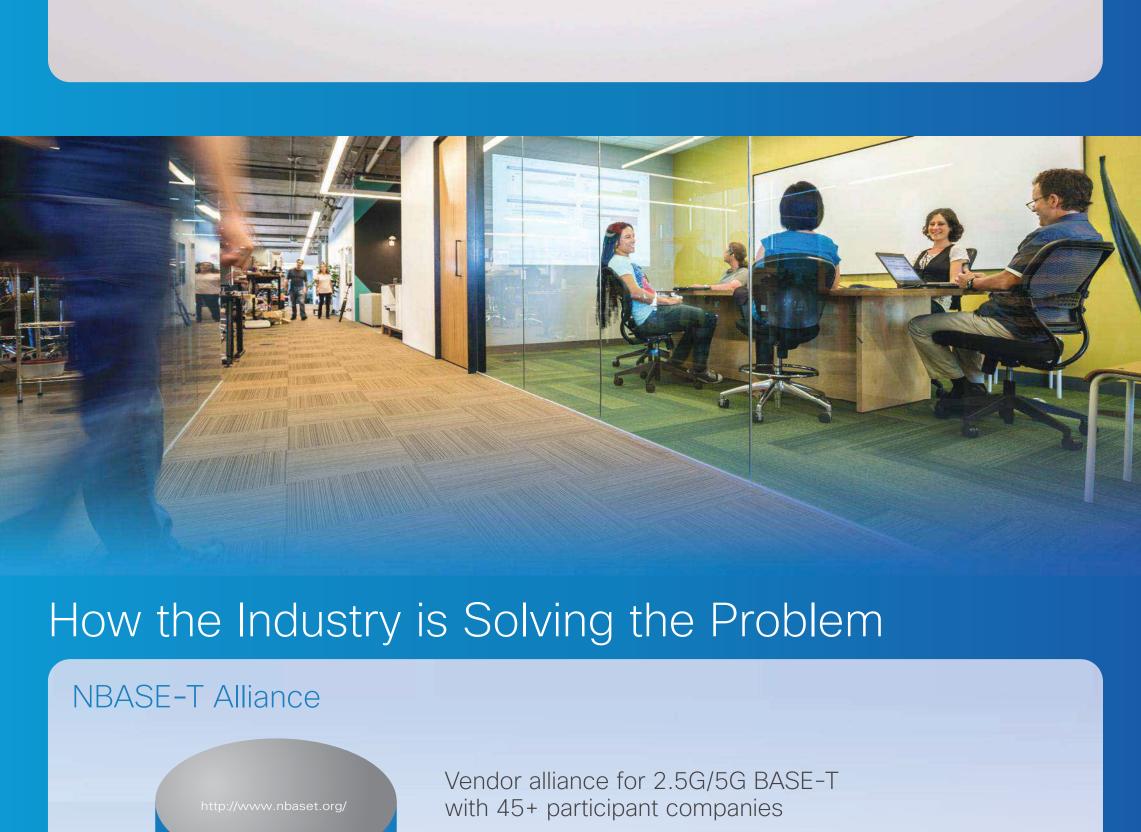
802.11n 450 Mbps

The Challenge

802.11ax is on the horizon!



Pervasive

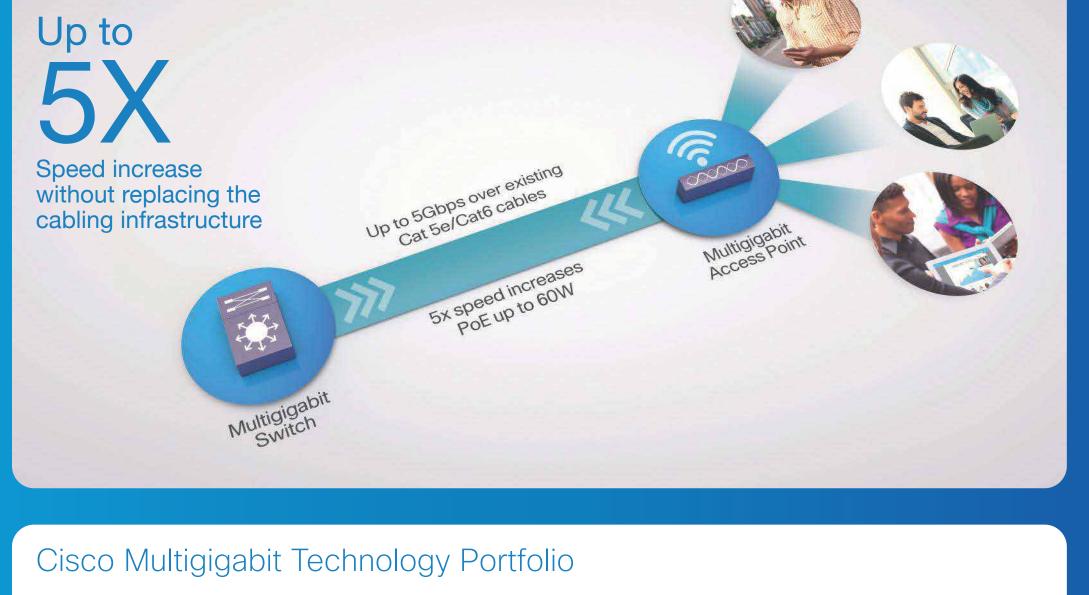


facilitates interoperability.

Components, silicon, systems, cabling, test, etc.

Enables widespread deployment, evolves specifications,

NBASE-T Alliance



Catalyst 9400 Series

Catalyst 9300 Series

The Solution

Cisco Multigigabit Technology



Adaptive Rate Technology (FE, 1G, 2.5G, 5G, and 10G)

Maintain Switch

to AP Reach at

Higher Speeds



Catalyst 4500-E Series

Catalyst 3850 Series

Catalyst 3650 Series

with Cat5e/Cat6 cabling up to 5G speeds Supports Cat6a cabling

Investment

Protection

Supports 100m distance

deployments for higher speeds



Up to 60W PoE over

Catalyst Digital Building Series

Catalyst 3560-CX

350 Series Managed Switch

Meraki MS350 Cloud Managed Switch

1000BASE-T and 10GBASE-T to support a **10GBASE-TIEEE** range of power needs standards IEEE 802.3bz 2.5/5GBASE-T

Aironet 3800/4800

WAP581

Meraki MR53

Standards

Compliant

Compliant with

standard in progress CISCO

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As a leading Cisco Gold Partner Ricoh will engage with companies in Australia to help them become more efficient in how they connect, manage, secure and share their data. Do more than keep up with the latest technology.

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https://www.ricoh.com.au/services/smart-connectivity or contact 13RICOH