



**NETGEAR**<sup>®</sup>  
**B U S I N E S S**

# Using Multi-Gigabit NBASE-T to Unleash Your Network

---

**NBASE-T**  
**A L L I A N C E**<sup>SM</sup>

# Webinar Speakers



**Alexandra Mehat**

Sr. Manager, SMB Product  
Mktg, NETGEAR

Alexandra.mehat@netgear.com



**Peter Jones**

Chairman, NBASE-T Alliance  
Distinguished Engineer, Cisco  
chairman@nbaset.org  
@petergjones  
@nbasetalliance

# Agenda



● NBASE-T Overview	Peter
● About NETGEAR	Alexandra
● NETGEAR & NBASE-T	Alexandra
● Gaming, Desktop & SMB Examples	Alexandra
● Wrap-up & Discussion	Alexandra/Peter

# NBASE-T Alliance

- NBASE-T Alliance ([www.nbaset.org/](http://www.nbaset.org/))
  - Vendor alliance for 2.5G/5G BASE-T
- Who are we?
  - Member companies representing all areas of network infrastructure including components, silicon, systems, cabling, testing equipment
- What are we doing?
  - Educate the market about multiple NBASE-T applications, enable widespread deployment, facilitate interoperability and build the market



## Promoters



## Contributors



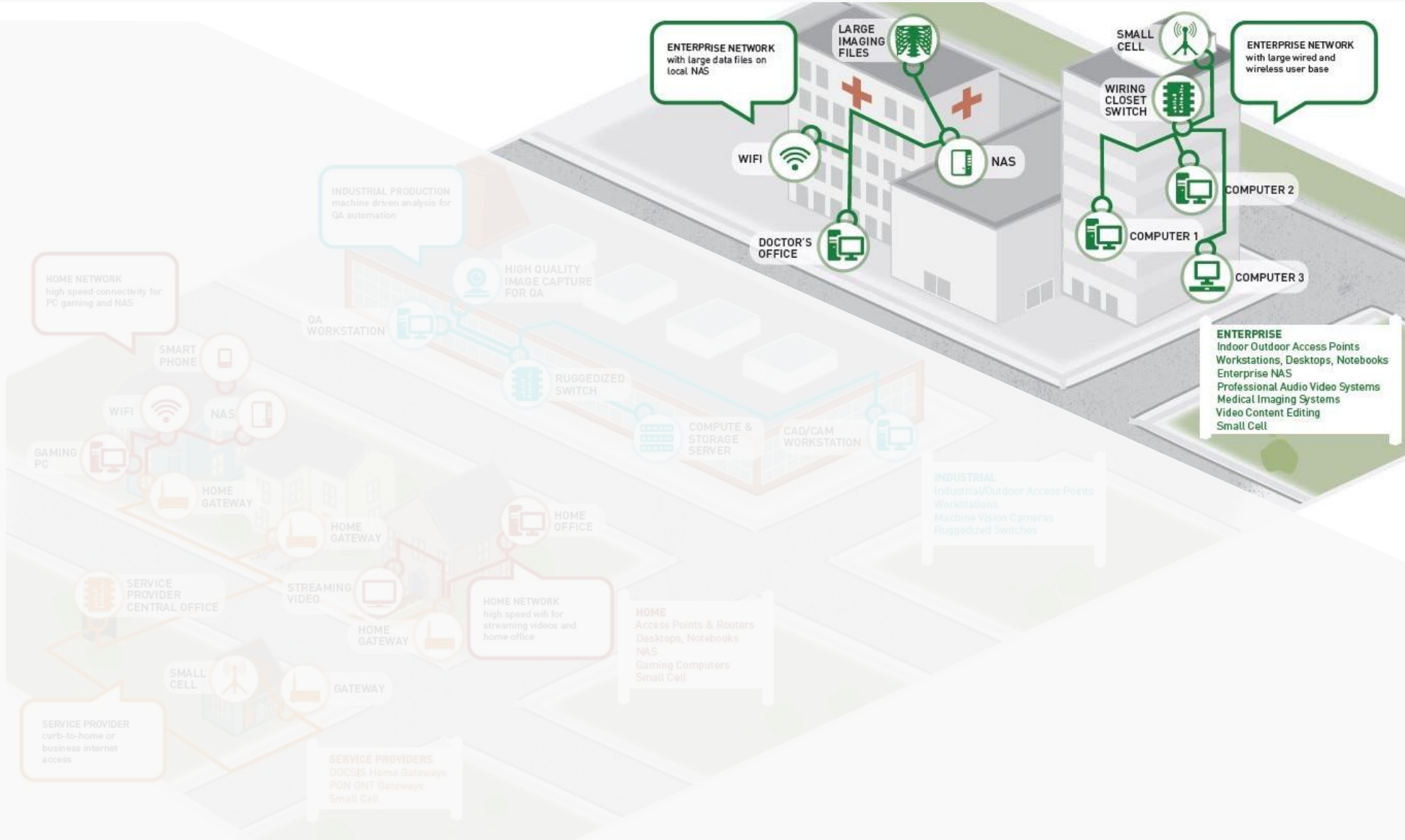
## Adopters



## Liaisons



# NBASE-T Application Areas



## Enterprise:

- Switch
- Wireless AP
- Desktop
- Storage
- Small Cell

## Industrial:

- Switch
- Wireless AP
- Workstation
- Storage
- Compute
- Machine Vision

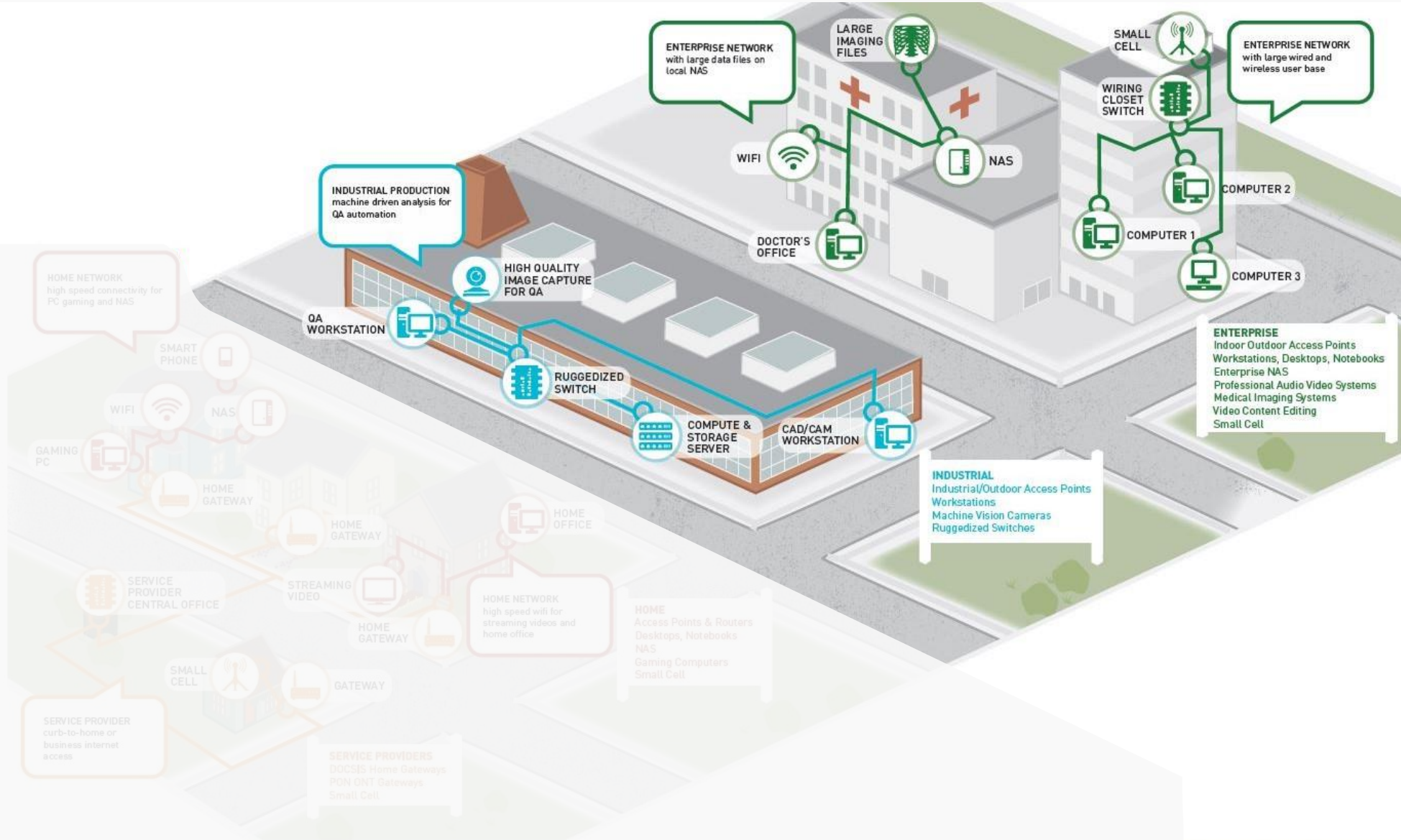
## Home:

- Switch
- Wireless AP
- Storage Server
- Home Gateway
- Streaming Media

## Service Provider:

- Small Cell
- Home Gateway

# NBASE-T Application Areas



## Enterprise:

- Switch
- Wireless AP
- Desktop
- Storage
- Small Cell

## Industrial:

- Switch
- Wireless AP
- Workstation
- Storage
- Compute
- Machine Vision

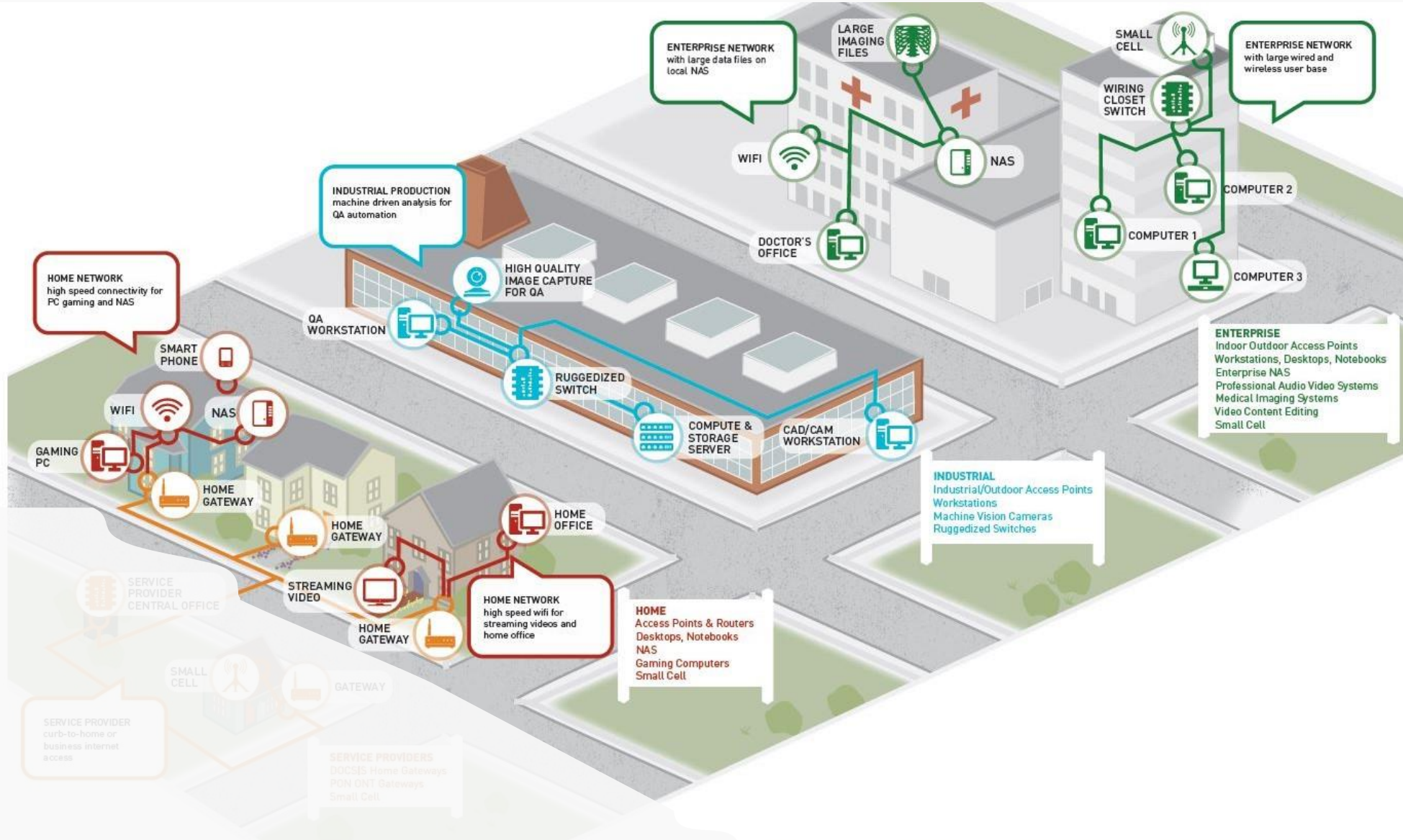
## Home:

- Switch
- Wireless AP
- Storage Server
- Home Gateway
- Streaming Media

## Service Provider:

- Small Cell
- Home Gateway

# NBASE-T Application Areas



## Enterprise:

- Switch
- Wireless AP
- Desktop
- Storage
- Small Cell

## Industrial:

- Switch
- Wireless AP
- Workstation
- Storage
- Compute
- Machine Vision

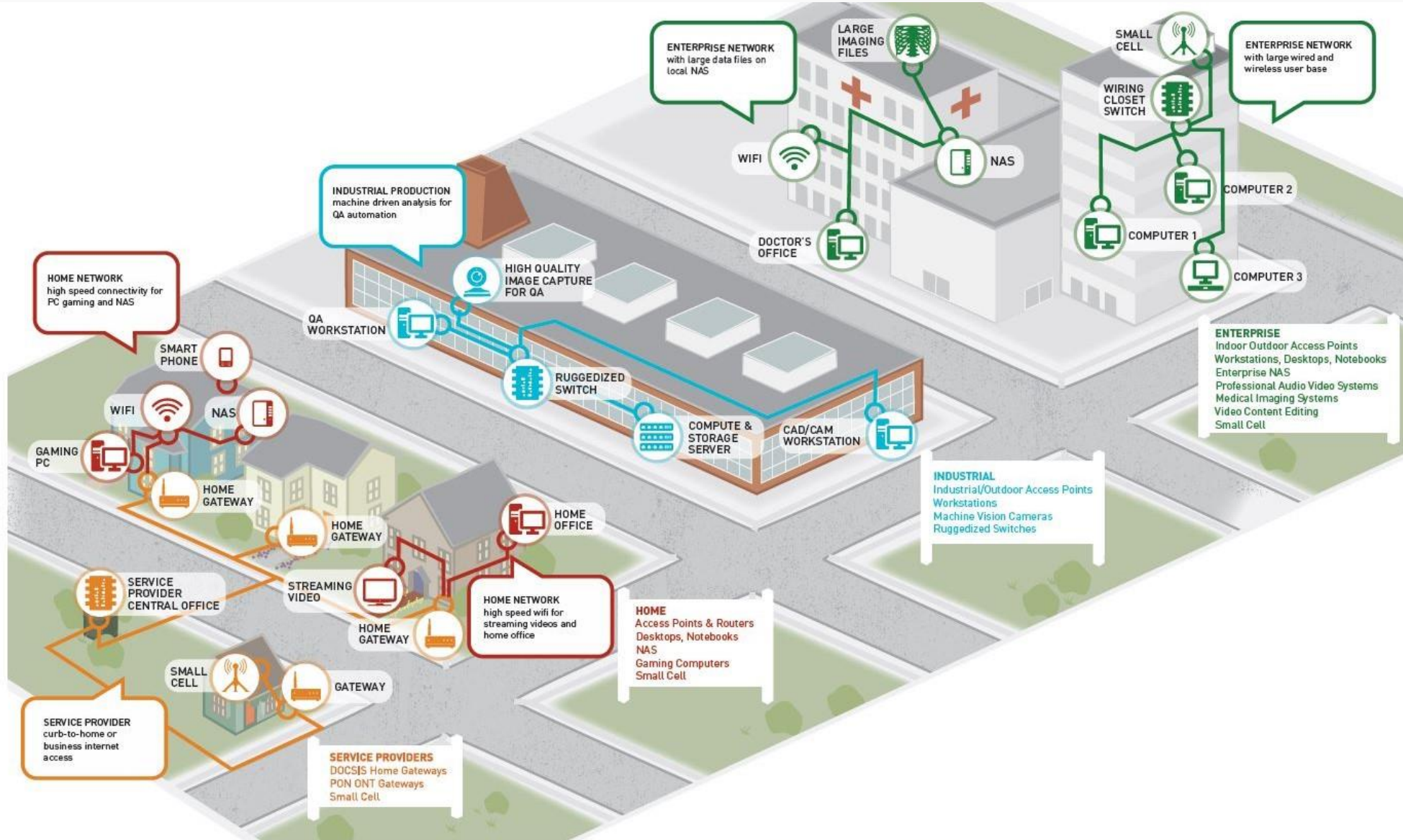
## Home:

- Switch
- Wireless AP
- Storage Server
- Home Gateway
- Streaming Media

## Service Provider:

- Small Cell
- Home Gateway

# NBASE-T Application Areas



## Enterprise:

- Switch
- Wireless AP
- Desktop
- Storage
- Small Cell

## Industrial:

- Switch
- Wireless AP
- Workstation
- Storage
- Compute
- Machine Vision

## Home:

- Switch
- Wireless AP
- Storage Server
- Home Gateway
- Streaming Media

## Service Provider:

- Small Cell
- Home Gateway



# Companies with NBASE-T Product

## NBASE-T Alliance Member Companies

### Component

Aquantia  
Aruba HPE  
Bel Magnetic Solutions  
Cisco  
GLGNet  
Intel  
KinnexA  
Marvell  
NXP

### System Level Product

Aquantia  
Aruba HPE  
Cisco  
Microsemi  
Netgear  
Pleora Technologies  
Tehuti Networks  
Teledyne e2v

### Test Equipment

AEM  
Aukua Systems  
Spirent  
Tektronix  
Xena Networks

## Non-Member Companies

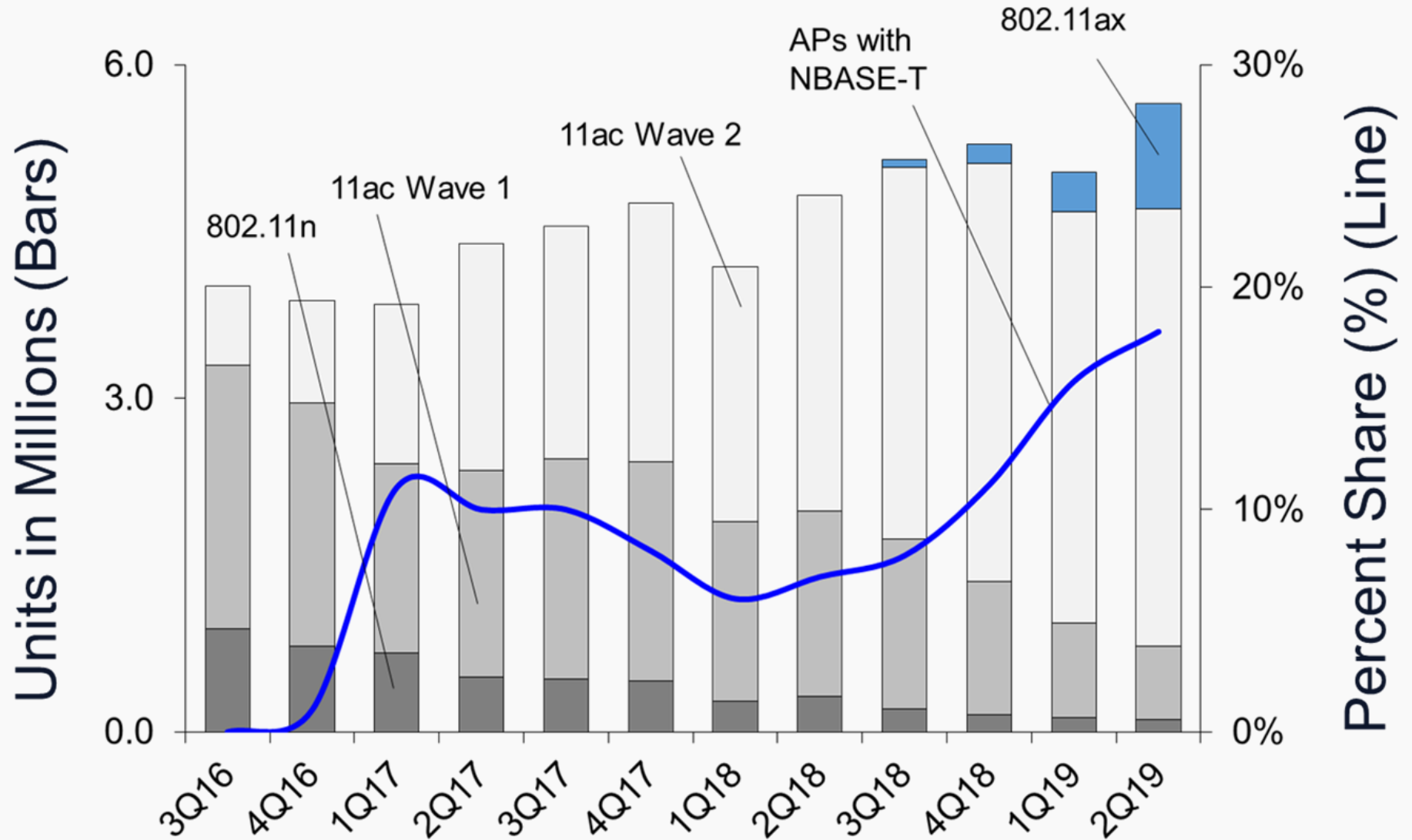
### Component

Akitio  
Dell  
Gigabyte  
Promise Technology  
QNAP  
Sonnet

### System Level Product

Accton  
Apple  
ASRock  
ASUS  
Brocade  
Buffalo  
Dell  
Dell EMC  
Lenovo  
MSI  
Promise Technology  
Sonicwall  
StarTech  
Supermicro

# NBASE-T & Wireless

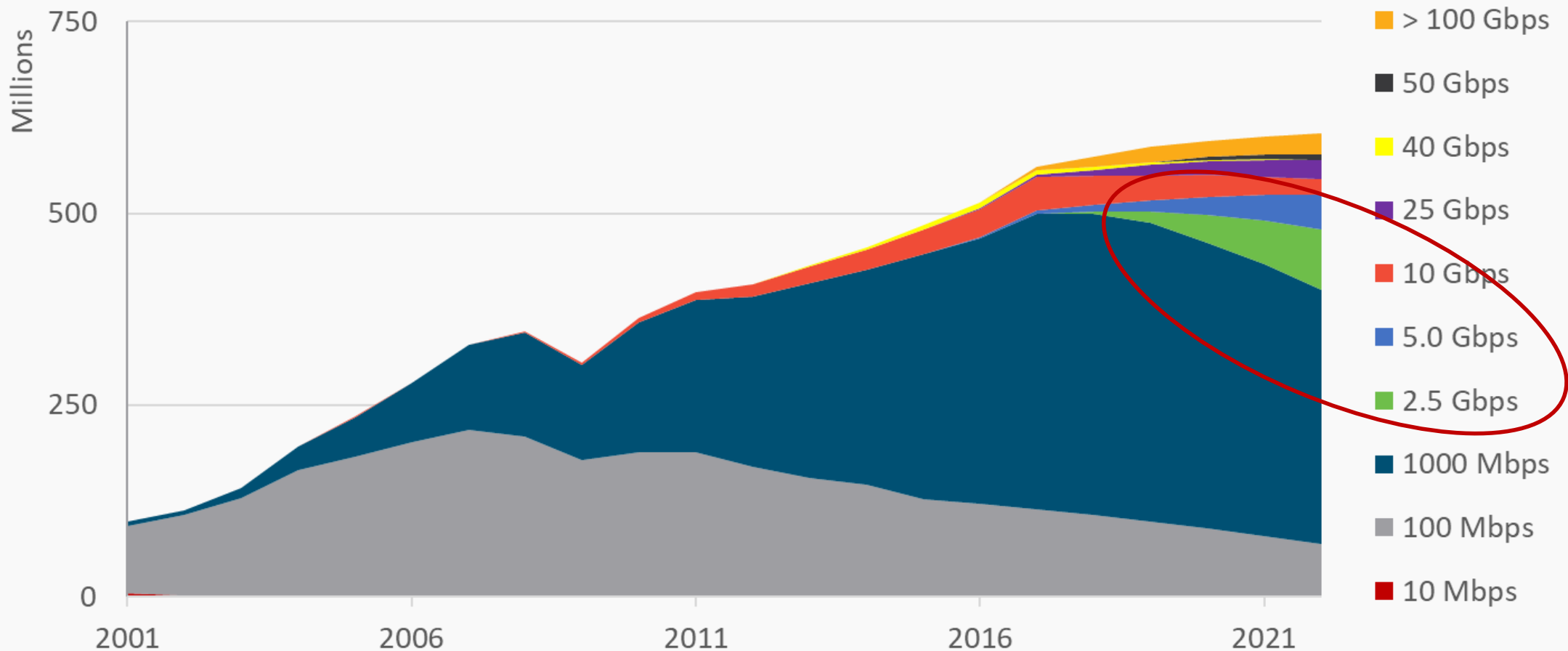


Source: [Dell'Oro Group NBASE-T Webinar November 2018](#)

# NBASE-T Momentum



Ethernet Switch Ports  
Dell'Oro Group Ethernet Switch 5-year Forecast Jan 2018





# Value of NBASE-T Technology

Leverages more than 1.3+ billion Cat5e/Cat6 outlets and more than 70 billion meters of Cat5e/Cat6 cables that make up greater than 90% of the current installed base

Enables network evolution by providing up to 10x faster speed without pulling cables or requiring building construction

Supports high-speed links to next generation WiFi access points and high-data rate client PC and workstation systems



**“NBASE-T technology is significantly impacting the market with the biggest transition we’ve seen in campus switching since 2000.”**

**- Dell’Oro Group**



**#NBASETQUOTES**



# About NETGEAR

---

# NETGEAR Business

SMB Networking and Innovation throughout the years



First Smart Switch



2003



2010

First Lightly Managed Plus Switch



First 10G Smart Switch



2011



Flexible Mounting Click Switch



2014



First Cloud App Managed Access Point



2017

First Fully Autonomous Cloud Management Switch



2017

First DIY WiFi Mesh Solution for Business



2017



Pro AV 96p 10G Modular Switch



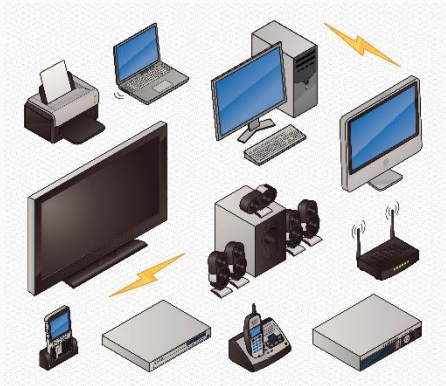
2018

**NETGEAR**  
BUSINESS

# NETGEAR innovation



## YESTERDAY



Less devices  
Less speed  
Smaller files

FAST ETHERNET

## TODAY



More devices (WiFi, BYOD)  
Need for speed  
Larger files  
Cloud apps, virtualization

GIGABIT ETHERNET

## TOMORROW (READY TODAY!)



Multi-gig devices, Wave 2 WiFi  
Increasing Cloud connectivity, IoT  
Larger files (4K video, HD conferencing)  
Cloud apps, virtualization will generalize

NBASE-T MULTI-GIG





# NETGEAR & NBASE-T

---

Are you still wearing the  
clothes from your childhood?

Your network feels it needs a  
bigger jacket too





# 5 times faster with the same cabling

WITH MULTI-GIG



WITHOUT MULTI-GIG



	1G	2.5G	5G	10G
CAT 5e	✓	✓	✓	✗
CAT 6	✓	✓	✓	55m
CAT 6A	✓	✓	✓	✓

Save big in material, labor and time

NETGEAR

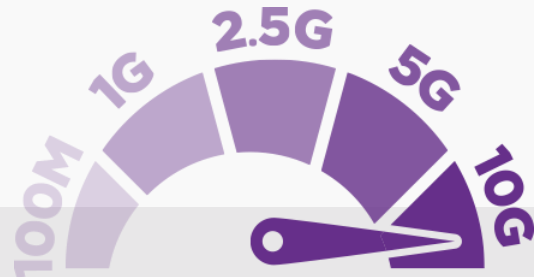
# 5-speed networking

The NBASE-T switches comes with the revolutionary 5-speed Multi-Gigabit technology built in to allow devices to speed past the Gigabit barrier

5-speed intelligent auto-adapt ports

Keep existing Cat 5E cabling for cost savings & reduced hassle

Large portfolio – ports, management, PoE, gaming



NETGEAR<sup>®</sup>  
BUSINESS

NB  
ALL

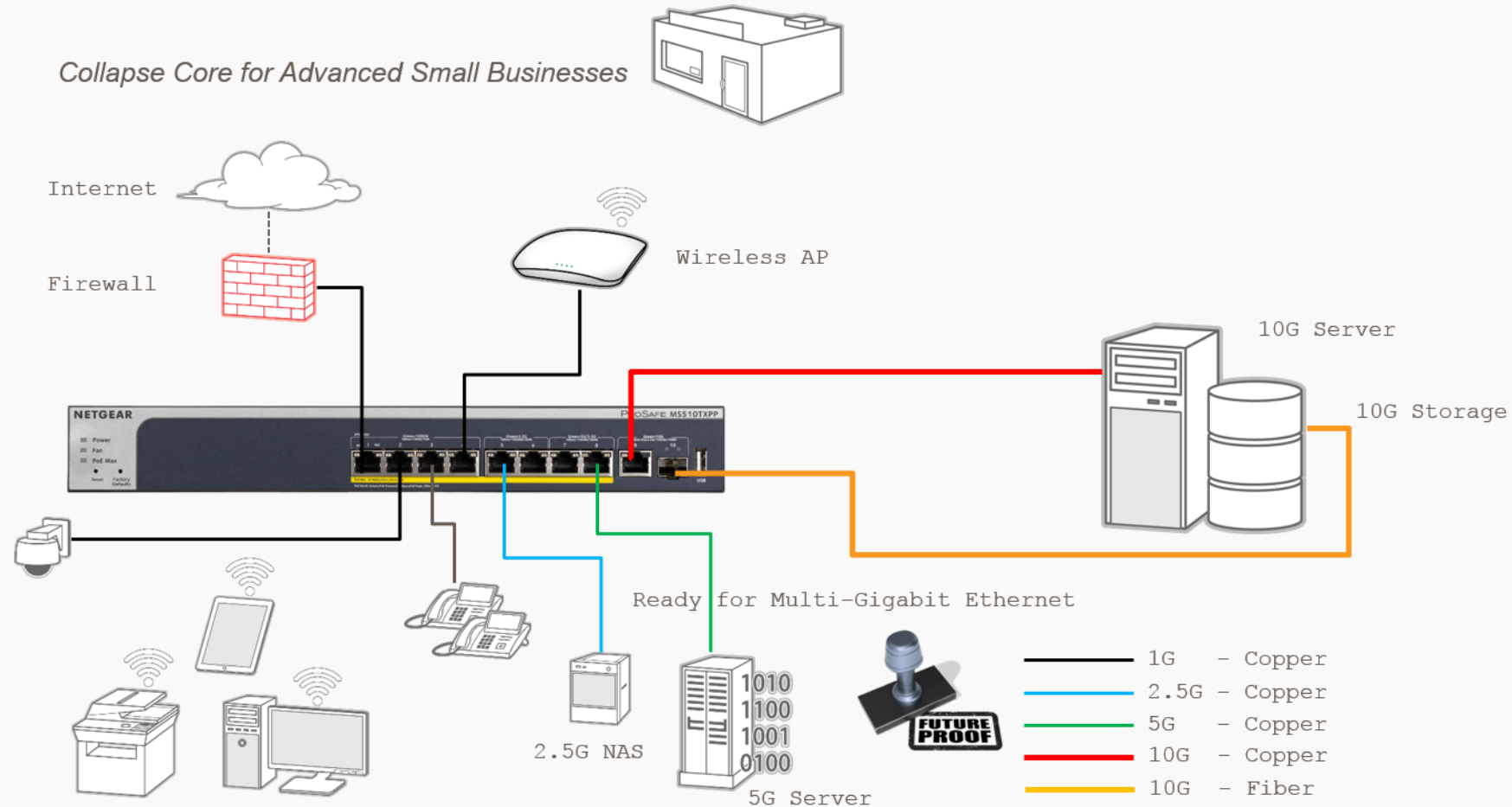




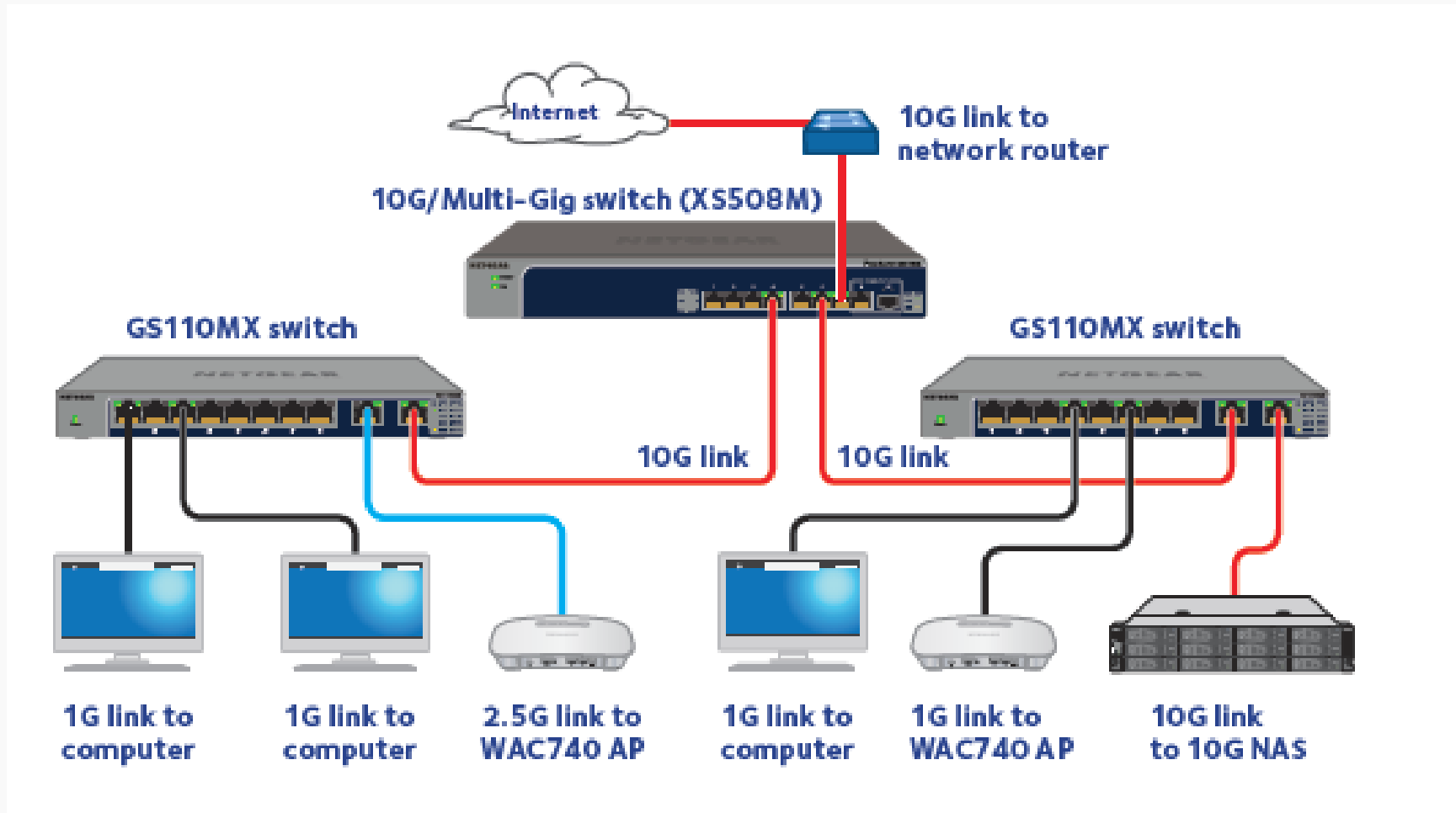
# Where NBASE-T fits

---

# “Typical” SMB



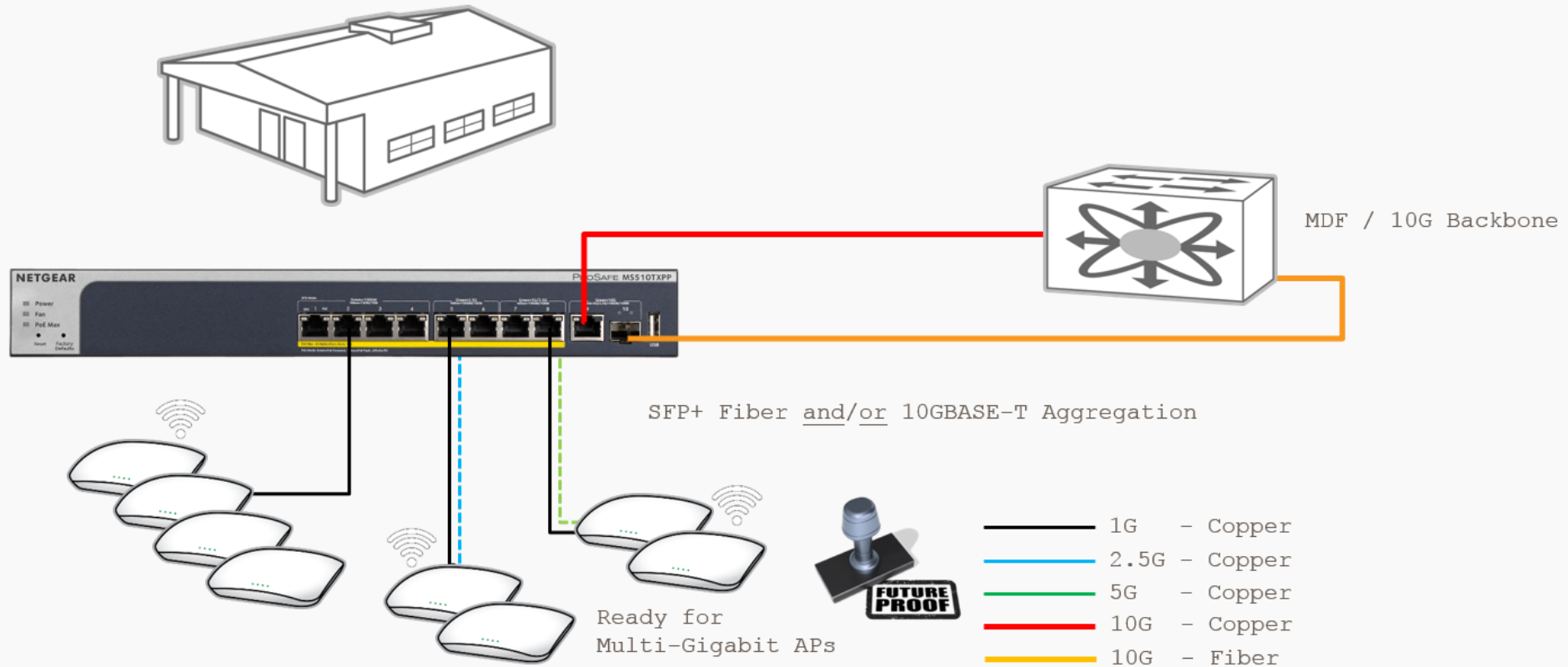
# Expanded SMB



# K12 Education



IDF / Distribution Switch for Wireless LAN Access in K12

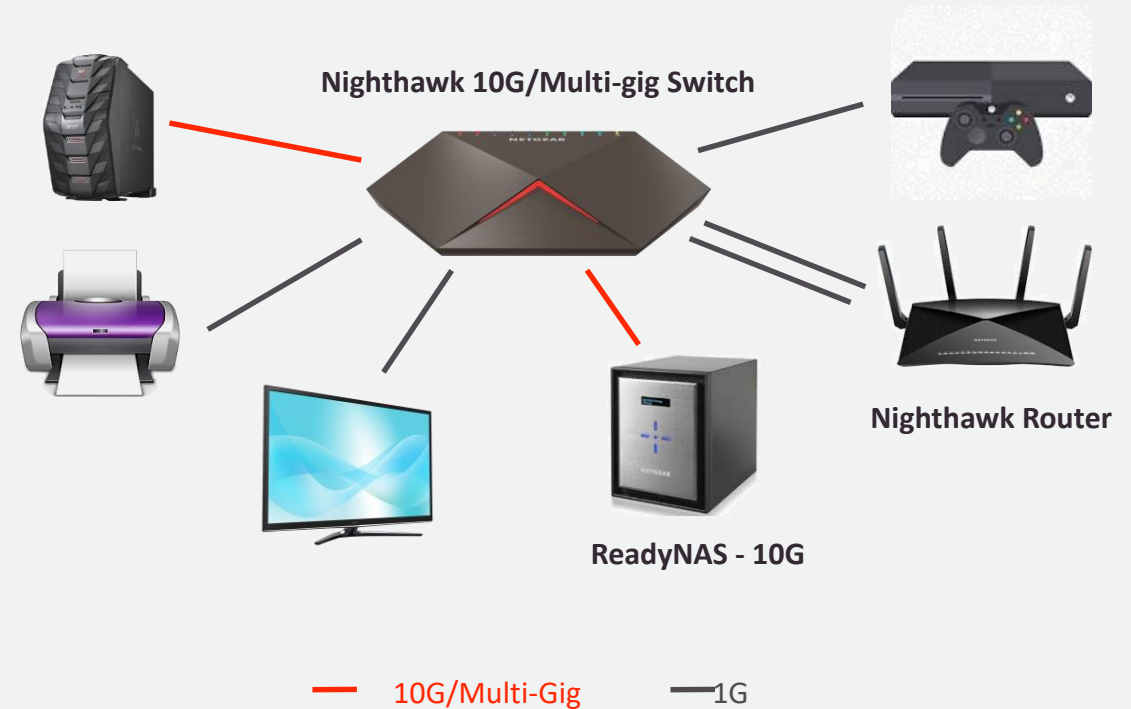


# Gaming with SX10 10G/Multi-gig Switch

Gaming LAN Parties with lag-free gaming and outstanding performance



Gaming & Entertainment room



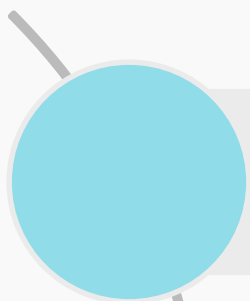


# Wrap-up & Discussion

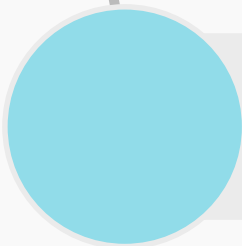
---



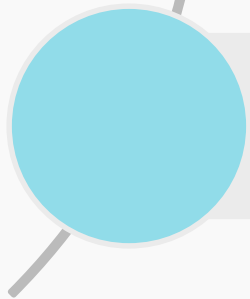
# Wrap-up & Discussion



Evolving networks require 5-speed networking



Great value for SMB and Gaming



Nighthawk Pro Gaming products



# Thank you!

---

Visit [www.nbase-t.org](http://www.nbase-t.org)

Netgear [Multi-Gig](#) & [Nighthawk Pro Gaming](#)

for more information