How to Market Managed Wi-Fi

Real-world opportunities for service providers looking to 'own the home'



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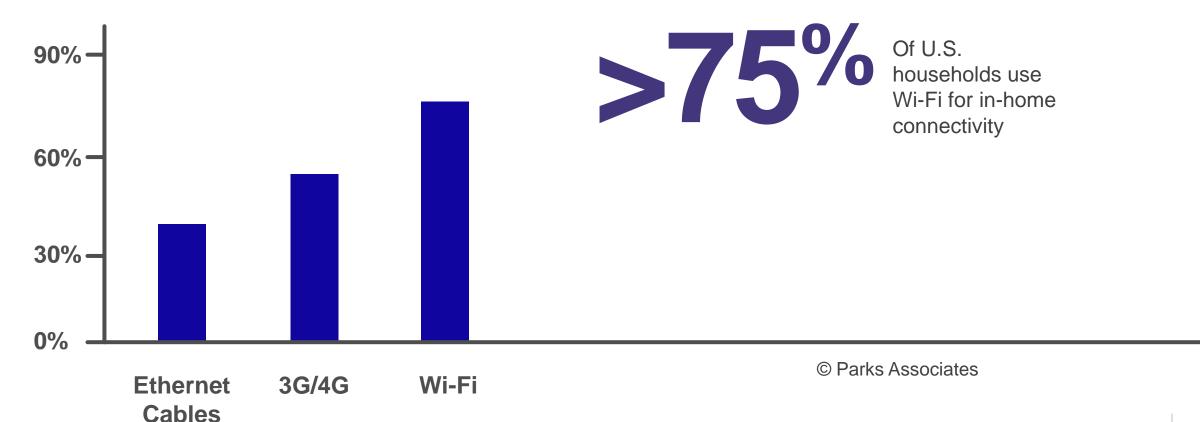
- The Importance of Wi-Fi
- Steps to Successful Marketing
 - Start with Managed Wi-Fi
 - Add Whole Home Coverage
 - Marketing Best Practices
 - Prepare for Smart Home
- Discussion/Q&A

The importance of Wi-Fi



Home Networking Method used to Access Internet in the Home

U.S. Broadband Households



Home Network Routers Obtained from Broadband Service Providers

Owners of Networking Routers in U.S. Broadband Households



Purchased from broadband provider

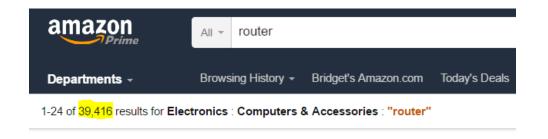


Purchased from other source

The 39% of consumers that are looking elsewhere for cutting edge technology...



... are going to find a dizzying array of options



Surveys tell us that nearly 80% of consumers would rather purchase the router/gateway from their service provider; a company whose recommendation they trust.



Retail providers are cross-selling installation and support services

BUSINESS

Best Buy expands Geek Squad's role with nationwide rollout of 'Total Tech Support'

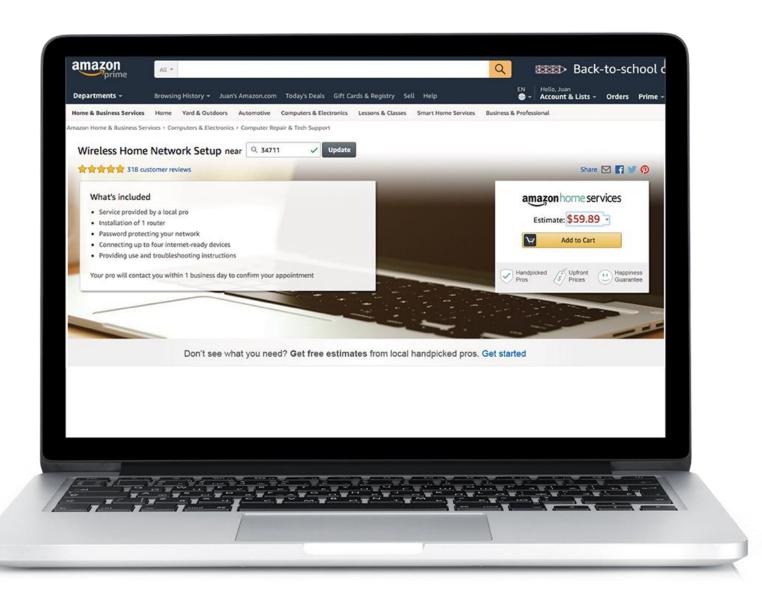
Best Buy is launching a subscription service that applies to all devices.

By Kavita Kumar Star Tribune MAY 22, 2018 - 5:37AM



CONTRIBUTED PHOTO

Best Buy's Total Tech Support costs \$200 a year and offers unlimited phone and online support and discounted in-home visits.



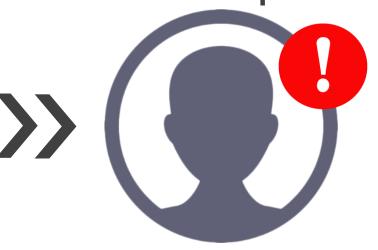
It all starts with Managed Wi-Fi



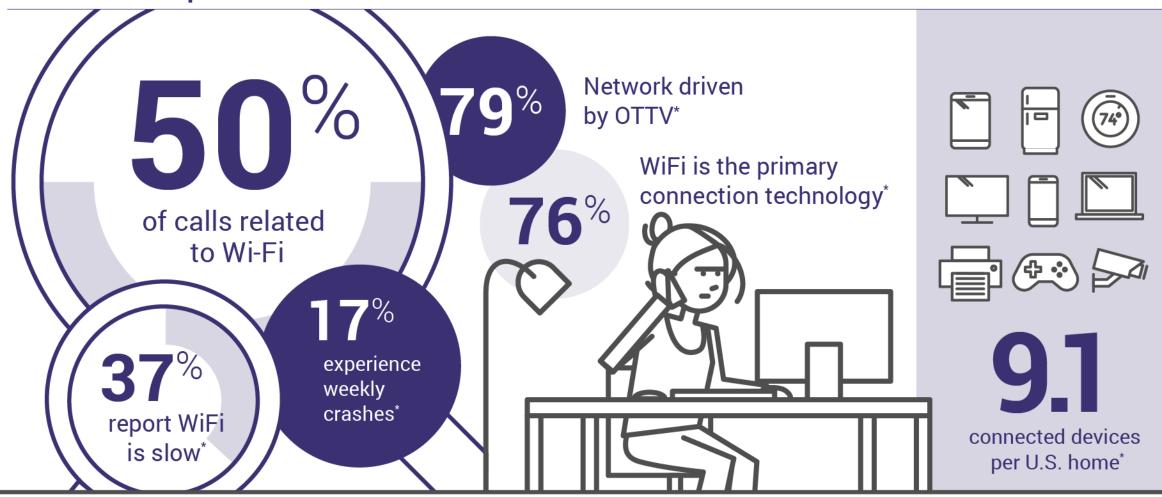
Off-The-Shelf-Routers

- Buying at Retail → Lost revenue
- Buying 3rd party → Undercuts your brand → Enhances the 3rd party's
- Zero control & visibility → Dismal FCR/First Call Resolution → Low NPS/Net Promoter Score
- Lack of Manageability → High cost of troubleshooting
- (For the subscriber) Staying current on latest technology → higher cost than what it might cost them to lease a router from you

Limited control over subscriber experience



Subscriber Experience in 2018



25% Wi-Fi coverage issues caused by:**



signal blockage within the premises



interference from nearby access points



Interference from non-wifi signals

Managed Wi-Fi means providing:

1. The 'strategic point of presence' (WAP/Wireless Access Point), and

 Effective, phone-based tech support (with remote troubleshooting capabilities);









Calix Support Cloud – Overview



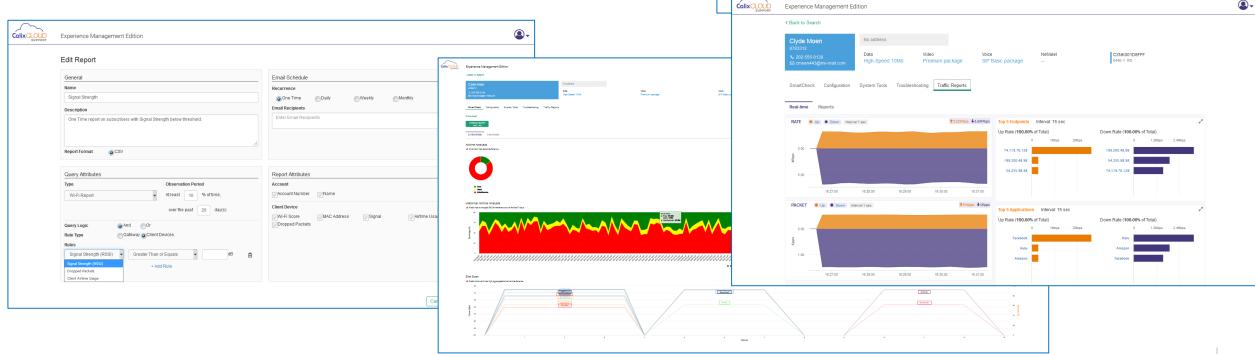
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A Client Devices

Observation Legacy Devices present in th

Main Use Cases:

- Automate reactive broadband care via SmartCheck
 - Improve support metrics: Volumes, escalations, AHT, Truck Rolls
- Increase visibility inside the home leveraging Netflow & Wi-Fi Analytics
- Make customer care proactive via Call Avoidance features and reports



Experience Management Edition

Recommendation Consider upgrade to higher

Gateway

A Wi-Fi

Issue Channel 40 has 81% interference Recommendation Improve Wi-Fi experies

Recommendation Improve Wi-Fi experience

≺ Back to Search

Managed Wi-Fi generates revenue

Current Managed Wi-Fi Annual Recurring Revenue (Consolidated, ND): \$241K.

Based on 29% penetration rate (~5,000/16,500 subscribers).

80% of new Internet customers take Managed Wi-Fi.



Current Managed Wi-Fi Annual Recurring Revenue: \$250K.

Based on **25% penetration rate** (~4,000/16,000 subscribers).

50% of new Internet customers take Managed Wi-Fi





Managed Wi-Fi generates significant cost savings

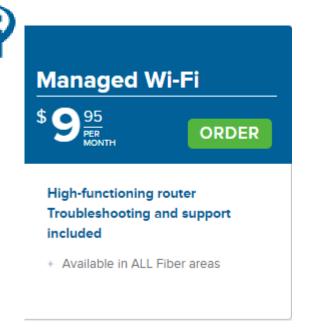
Benefits/cost savings for customers with Managed Wi-Fi vs BYOD (Consolidated, ND):

- 95% first call resolution;
- 60% less likely to roll a truck;
- 85% faster resolution = appr. \$20 saving per trouble ticket; and
- reduced installation times.

Benefits/cost savings for customers with Managed Wi-Fi vs BYOD (All West, UT):

- 40% first call resolution;
- 30% less likely to roll a truck;
- 44% faster resolution = appr. \$20 saving per trouble ticket; and
- reduced installation times.







Best Practices: What are SPs charging for Managed Wi-Fi?

Cost for Managed Wi-Fi solution ranges from \$4.95/month to \$13.95/month, depending on what is included:

■ Some SPs are moving toward 'tiered' tech support and/or differentiating based on number of in-home devices (e.g., SCTC \$8.95/month for "on-site connection of up to five, simple devices"; \$13.95/month to "synch up to ten, simple devices at time of installation")

\$4.95/month





\$7.95/month



\$8.95/month







\$9.95/month









Promoting Managed Wi-Fi



HASSLE-FREE MANAGED WI-FI

We create a seamless Wi-Fi network in your home.

Contact Arvig for details.



WORRY-FREE WI-FI

Easily share your Internet connection throughout your home.

See Arvig for details.



888.99.ARVIG | arvig.com



arvig

Promoting Managed Wi-Fi

Get the coverage of Managed WI-FI + Inside Wire Maintenance for just \$8.95 per month

Midstate Communications has paired up two of our services — Managed Wi-Fi and Inside Wire Maintenance — for one low monthly cost. This combination covers virtually all of your connectivity, both wireless and wired, so you can focus on using the technology and leave the troubleshooting and repair to us.

Here's what you get for \$8.95* per month:

- Managed Wi-Fi including installation (with a separate guest network if requested), router, connecting up to four devices, and ongoing account management
- Inside Wire Maintenance including service repair appointment and repairs of covered inside communications wiring

To get started, call Midstate

Communications at 605-778-6221.



'Whole Home Wi-Fi'



Whole Home Wi-Fi mirrors Managed Wi-Fi purchasing dynamics

Survey says...

- 80% of consumers prefer to buy their networking equipment from their ISP
- Nearly 70% of consumers of broadband services would be willing to pay \$5-10/month for small Wi-Fi Access Points (WAPs)



Prefer to purchase from broadband provider



Willing to pay for small WAP device

*PR Newswire

Some subscribers are turning to Consumer Mesh Wi-Fi for 'better Wi-Fi'

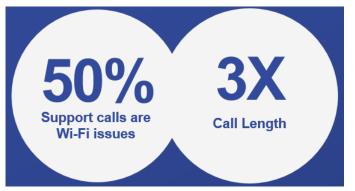
Revenue is lost to retail...







While you get stuck with the support costs...



You call that a 'Best Buy'?

Whole Home Wi-Fi means providing:

1. The 'strategic point of presence' (WAP/Wireless Access Point), and

 Effective, phone-based tech support (with remote troubleshooting capabilities); and

3. Extended/whole home coverage.













Best Practices: What are SPs charging for Mesh Wi-Fi?

\$3.95/unit





\$6.95/unit





\$4.95/unit





Hassle-Free **Managed Wi-Fi** starts at **\$7.00 per month.**Create a seamless network in your home and let the experts at Arvig' manage it for you.

The benefits of Arvig's Managed Wi-Fi:

- · Easily connect to the internet from almost anywhere in your home.
- · Wi-Fi password recovery.
- · Help for connecting wireless devices to your network.
- FREE router replacement, if needed.

Experience Managed Wi-Fi now!

888.99.ARVIG | arvig.com





Marketing Best Practices



Marketing Best Practices

Observations from our customers

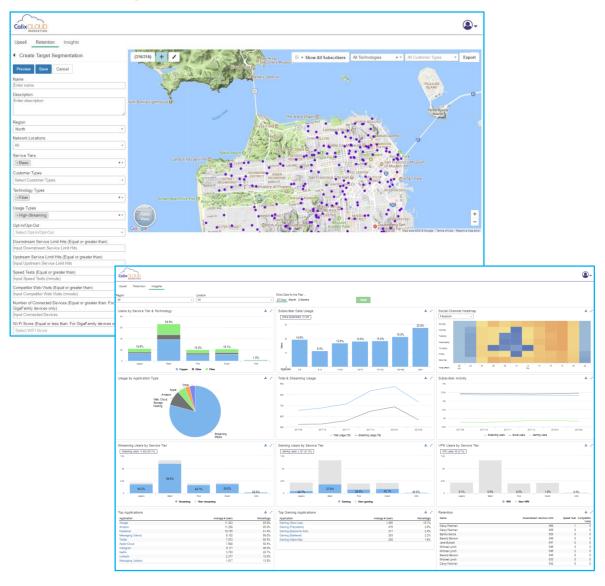
- Lead with your brand
- Don't re-invent the wheel Calix can help with creative content
- Leverage data/micro-segmentation to identify high potential subscribers → Marketing Cloud is AWESOME!
- Choose the right channel → Consider increasing social media
- Find the right price-value balance one that results in highest adoption and drives most cost savings
- Personalize/Inform/Educate → videos, FAQs, product details, etc.



Calix Marketing Cloud - Overview



Gain insights into your subscribers like never before



Use Cases

- Actionable Subscriber Insights
- Data usage
- Social Channel heatmap/usage
- Subscriber types
- Retention/Satisfaction monitor
- Segmentation filters
- Micro Targeting for Campaigns
- Focused upsell



Increase ARPU



Reduce Churn



Boost Marketing ROI

"Organizations that leverage customer behavior data... outperform peers by 85% in sales growth and more than 25% in gross margin"

- McKinsey, March 2017

Better Wi-Fi is a great service differentiator for service providers

Imagine powerful Wi-Fi in every nook and cranny of your home, even your backyard.

No upfront costs & only pennies a day.

Ask about our Whole Home Wi-Fi Support Plan!

ITSFiber



Offering better Wi-Fi presents an opportunity

Premium Wi-Fi = better coverage, less congestion, and faster speeds



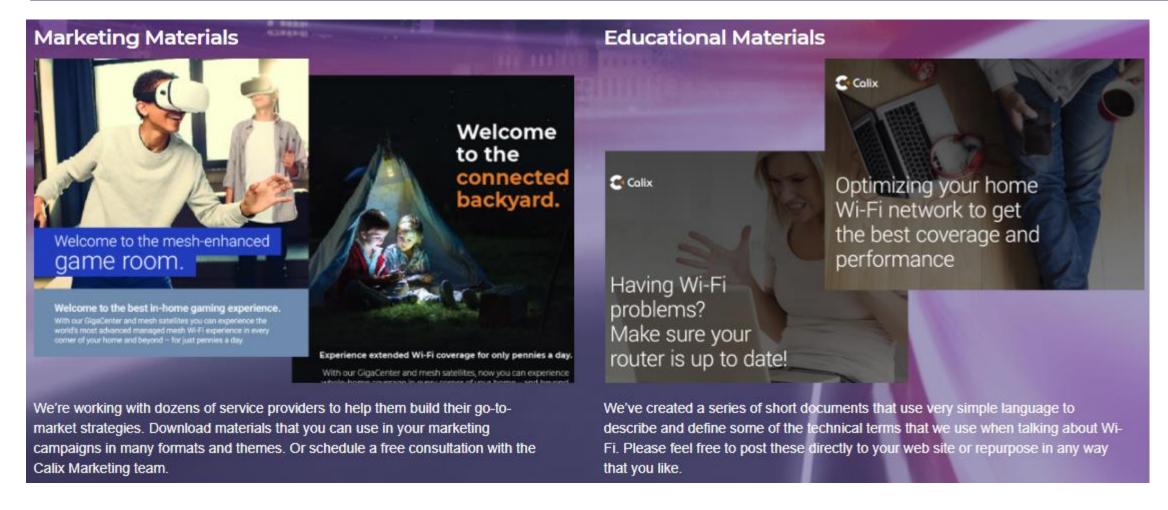
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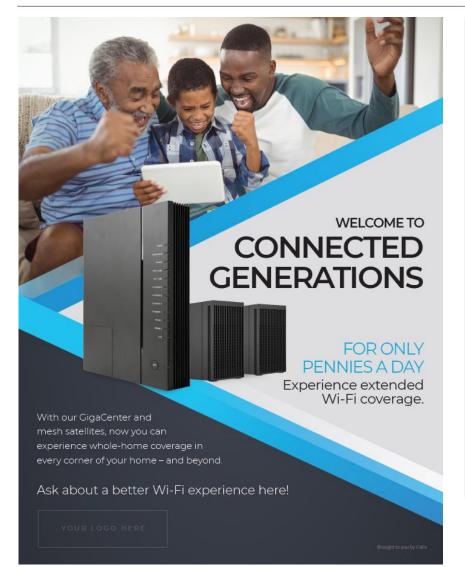


Calix can help you get started on your journey

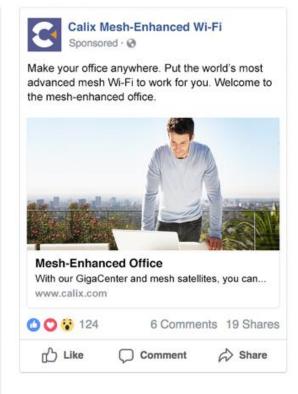


Dedicated site for marketing and educational materials (https://go.pardot.com/l/2172/2018-03-05/3nb85p).

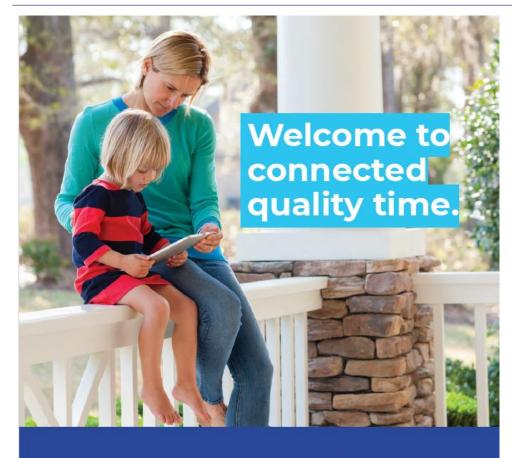
Marketing Starter Kit





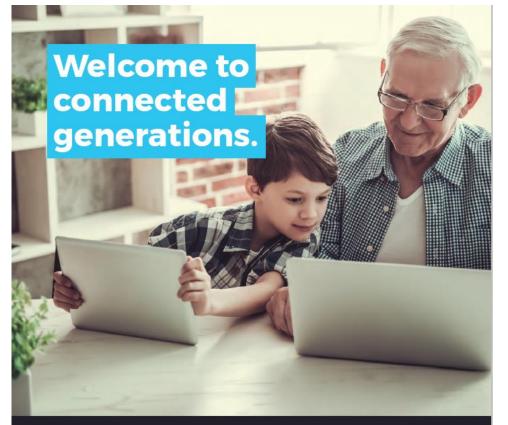


Toolkit Keeps Expanding - More Personas and Content Coming...



For only pennies a day. Experience extended Wi-Fi coverage.

With our GigaCenter and mesh satellites, now you can experience whole-home coverage in every corner of your home –



For only pennies a day. Experience extended Wi-Fi coverage.

With our GigaCenter and mesh satellites, now you can experience whole-home coverage in every corner of your home - and beyond.

Ask about a better Wi-Fi experience here! YOUR LOGO HERE

Ask about a better Wi-Fi experience here!

YOUR LOGO HERE

Brought to you by Calix

Brought to you by Calix

Wi-Fi Educational Materials

Better Wi-Fi, made easy.

HOW TO GET GREAT COVERAGE THROUGHOUT YOUR HOME-

EVEN IN YOUR YARD.

Inside your home, your Internet signal is delivered using a cable connected to a small box. This box is known as a gateway, a router, a modem or an "access point", because it's the point in your home that your devices access in order to connect to the Internet. Access can be delivered using an Ethernet cable connected directly from your device into the box (most common with desktop computers), or via Wi-Fi. The brand name of the gateway we installed in your home is "GigaCenter", one of the best on the market.

Here are answers to some questions you may have about Whole Home or Wi-Fi in general.

HOW CAN YOU IMPROVE MY WI-FI COVERAGE?

The easiest way to get a strong Wi-Fi signal throughout your home, and even in your yard, is by creating a bigger Wi-Fi network. Your GigaCenter is already transmitting the strongest signal allowed by Federal regulations, so we can't 'turn it up'. However, we can provide you with additional access points, called satellites, that work seamlessly with your GigaCenter to enlarge your network and provide you with what has become known as Whole Home Wi-Fi. These satellites 'mesh' with your GigaCenter to do this, which is why these bigger networks are technically called 'mesh networks'.

EASY TO USE.

With Whole Home, you aren't creating any new Wi-Fi networks. You're simply enlarging your existing network. That means:

- Your devices already "know" your network, so you don't have to change or add any new settings, passwords or configurations.
- As you move around, your GigaCenter will seamlessly (and automatically) switch
 you to the access point (or satellite) that gives you the best connection for where
 you are in or outside the house. ("Seamlessly" means you won't notice it. All you
 will notice is better Wi-Fi coverage everywhere.)
- If the channel or frequency of your access point gets too crowded, or encounters interference from other devices or your neighbors' Wi-Fi network, the GigaCenter will seamlessly (and automatically) switch you to a different frequency.





Eight (8) documents available

Want more? Topic suggestions welcome.

In today's increasingly connected homes, a fast, reliable Wi-Fir connection is no longer al louzy, we depend on Wi-Fir is no many ways, communicating with friends and family, sharing photos and videos, streaming movies and music, and interacting on social media. More and more, we also rejo no Wi-Fir oconnect a whole array of smart devices to manage mission-critical systems in our homes—such as smart locks, smart thermostats and mart security systems.

When it works the way it is supposed to, Wi-Fi is an amazing technology. When it doesn't—when we experience poor performance or can't connect at all—it has a big impact on our daily lives. For most of our devices, connecting over Wi-Fi is the only option. So when it's not working, it can be extremely frustrating.

As a result, many people are rethinking the logic of relying on consumer-grade Wi-Fi systems to manage something that's so important to their daily lives. Instead, they're looking to their service provider for a hassle-free Wi-Fi experience that makes their online lives better.

What is managed, carrier-grade Wi-Fi?

With managed, carrier-grade Wi-Fi, your service provider delivers the latest Wi-Fi technology and takes care of managing it within your home network. Your service provider offers a variety of Wi-Fi service levels, depending on your needs, including Mesh Wi-Fi solutions that use satellite units placed in different rooms to extend a strong Wi-Fi signal throughout your home.



When it comes to home Wi-Fi, the most important thing is that it works—so you never have to think about it. Unfortunately, with many home Wi-Fi networks this is not always the case. Poor connectivity, slow speeds and dropped connections are all too common.

Consumer-grade vs.

There are some steps you can take to improve Wi-Fi performance in your home, however, such as moving your router to a different location, making sure its settings are optimized, or even upgrading to a newer model. But when these actions don't result in any noticeable improvement, it may be time to consider a different type of

Enjoy a superior experience with Mesh Wi-Fi

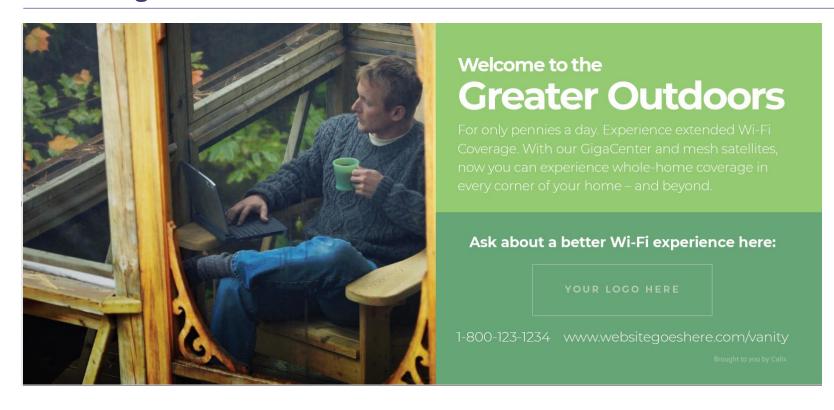
Fortunately, there is an existing new alternative to conventional home Wi-Fi retworks. Called a Mesh Wi-Fi network, this new technology combines a Wi-Fi router with one or more satellites, which as small wireless devices you place in different rooms in your home. These satellites communicate with the router and provide you with a strong Wi-Fi signal every-here, whether it sy our bedroom, your home office,

Consumer-grade Mesh Wi-Fi; convenient but expensive

Once you've decided a Mesh Wi-Fi system is for you, there are two options for making the jump. The first is to pay a visit to the nearest consumer electronics store and purchase your own Mesh Wi-Fi system. These systems typically consist of a router and one, or sometimes two, satellines.



Marketing Starter Kit



Posters, Bill Inserts, Door Hangers and Social Media

For further assistance

Contact: Greg Owens

Email: greg.owens@calix.com

Voice: 613.804.1978



Scheduled Your Free Marketing Consult

We can help you We're here to help with your go-to-market strategy.

SCHEDULE FREE CONSULTATION

- We're working with dozens of service providers to help them build their go-to-market strategies.
- If you'd like to discuss the business case and learn about some of the best practices that exist in the market, get in touch today and schedule a free consultation with a Calix executive or product expert.
- 100+ marketing consults completed to date.
- Schedule a free consultation (https://go.pardot.com/l/2172/2018-02-26/3mzdjf). Links also available from the GigaCenter, 804Mesh and EXOS web pages.

The End Game is Smart Home



IoT Growth has finally hit the home

The war for the Smart Home is NOW



37% Deploying in 2020

51% deploying in 2022

66 million

US households with smart devices by 2022



No Compromise Smart Home System

Brand Worthy Game Changers

6 Gb/s WiFi

First Service Provider Offered 8x8 11ax Wi-Fi

Universal IoT

All IoT technologies

Voice Command Services

AVS voice recognition technology

World first - three configurations

11AX | 11AX-Voice | 11AX - Voice - IOT

Configurable as Gateway or Satellite

11AX backhaul or ethernet



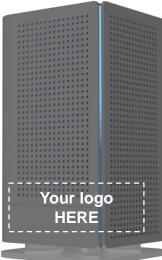








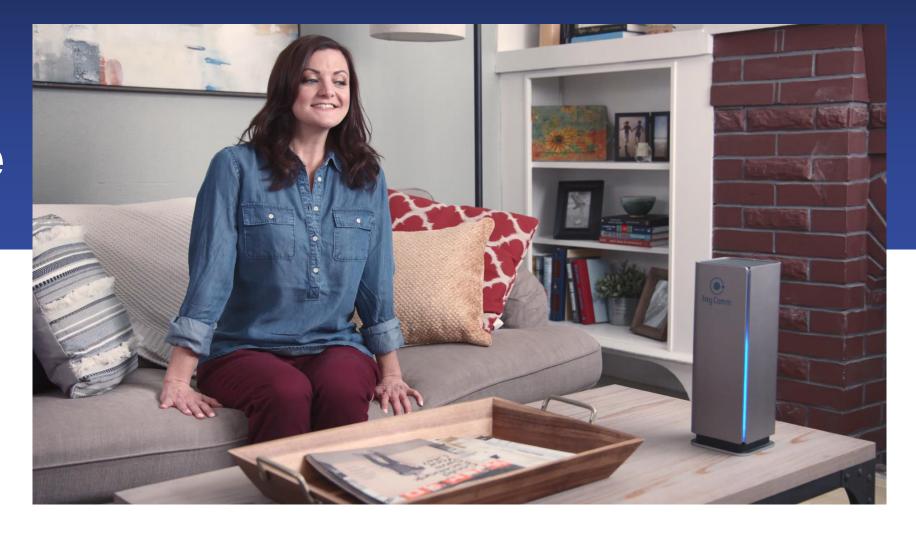






Set-Up YOUR BRANDED Smart Home









More than a Technology Solution A Platform To Deliver Epic Experiences





New Business Models & Revenue Streams



Manage Costs & Speed Time to Market



NOW REAL.

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WYNN LAS VEGAS OCTOBER 27-30

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Register today at www.Calix.com/Connexions

Use code CalixWebinar to get \$50 off Early Bird Registration**

> **Applies only to full conference registration. No guest passes may use this code for discount.

Is Your Brand Ready to Dominate?



The Time To Start Is Now

- step: Embrace **Managed Wi-Fi**
- 1. The essential first 2. Offer Whole Home Wi-Fi: 3. Smart Home: **Extending coverage** throughout the subscriber's home
 - **Evolution requires a** transformation; creates opportunities

Discussion/Q&A



Thank you

derek.kiger@calix.com

