

## Agenda



About the Emergency Connectivity Fund (ECF)

Solutions to Solve the Homework Gap

TCO Comparison of Solutions

Wrap Up

**Questions & Answers** 

## The Emergency Connectivity Fund (ECF)



Established May 10, 2021 by the FCC to support remote learning

Part of the America Rescue Plan Act of 2021 for COVID-19 pandemic relief

Funded by an \$7.17B appropriation by US Congress

Provides assistance for Internet access off campus of schools/libraries

Initially applies to purchases from July 1, 2021 to June 30, 2022

Program administered by USAC who also administers the E-rate program

## ECF Products and Services Eligibility



#### Eligible products include:

- Laptop and tablet computer up to \$400 for each device
- Wi-Fi hotspots up to \$250 for each hotspot
- Modems, routers and modem/router combos funding limits not set
- Commercially available Internet service funding expected \$10-25/month
- In circumstances where there is no available broadband service, the fund may support construction of new networks

Reasonable costs of equipment/services beyond laptops/hotpots to be determined upon careful review by USAC

## **ECF Application Process**



Filing window open as of Tuesday June 29, 2021

Application window will be open 45 days until August 13, 2021

Applicants need on online ECF portal account to apply

USAC will review applications and approve funding in waves over time

FCC officials have instructed the program administrator to process 50% of applications within 60 days and 70% of applications within 100 days

Schools/libraries apply at: emergencyconnectivityfund.org

## Emergency Broadband Benefit (EBB) Program



\$3.2B funding for consumer Internet access

Offers discount \$50/mo. to consumers and \$75/mo. if on Tribal land

Enrollment opened May 12, 2021

More than 1000 broadband providers participating

ECF intended to complement the EBB (rules to prevent duplicate funding)

# Cambium Solutions for the Homework Gap





## The Multi-Gigabit Wireless Fabric

INDUSTRIAL

RESIDENTIAL





RURAL

#### **Network Extension to Student Homes**













## Extend the schools network via a dedicated point to multipoint network and indoor wifi to student residences.

- Create a long term sustainable network with minimal recurring costs.
- Partner up with local providers with existing coverage and leverage installation, maintenance overhead.

#### Choose from a variety of technology solutions

- Private LTE in 3.5 CBRS band
- Proprietary technology in un-licensed 5GHz band
- High performance mm wave technology
- Dedicated CPE installation on roof tops and indoor wifi becomes part of the solution.
- Transmit power limits in CBRS, propagation characteristics in the bands prevent universal "self" and/or "indoor" installs.

#### Wi-Fi Extension to Public Places





## Extend the school WiFi network to playgrounds, community centers and general student body public areas.

- Create a long term sustainable network using your current network.
- Partner with local govt for further use cases such as security and IOT.
- Manage seamlessly as you would your indoor campus network.

#### Choose from a variety of technology solutions

- Private LTE in 3.5 CBRS band
- Proprietary technology in un-licensed 5GHz band
- High performance mm wave technology







Simple installation with only power requirements.

Outdoor coverage with same security as the school network.

#### Outdoor Wi-Fi Using Cellular Technology







## Create Wi-Fi hotspots leveraging cellular network coverage.

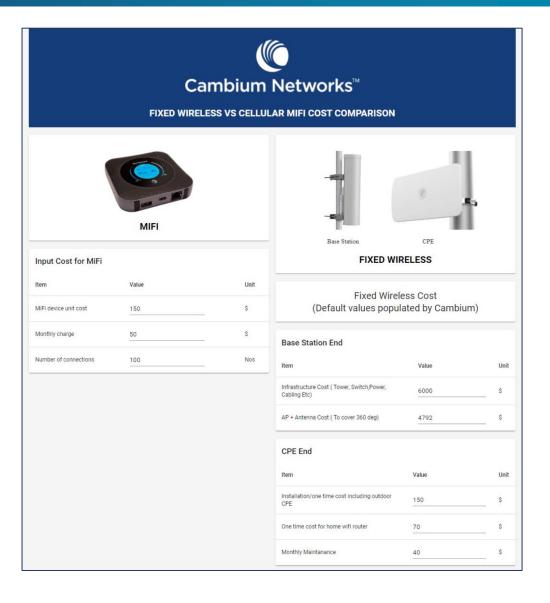
- Create a short term Wi-Fi network by using outdoor LTE modems and Cambium Wi-Fi hotspots.
- Use pre/post paid SIM cards to backhaul WiFi via a cellular connection.
- Route all traffic securely back to school network/firewall.
- Keep cellular backup as an emergency option while building out a dedicate network.

#### Choose from a variety of Wi-Fi solutions

- Outdoor Wi-Fi hotspots with directional and omni directional coverage.
- 802.11ac 4x4 APs and new Wi-Fi 6 outdoor APs.
- End to end cloud or on premise based management.

## Fixed Wireless vs. Mi-Fi TCO Comparison





### Wrap Up



- The Homework Gap is defined by 17 million+ students in the US without home Internet access
- Emergency funding acts including ECF, EBB, CARES, etc. are providing technology funding in response to the COVID-19 pandemic
- Cambium's broadband and Wi-Fi solutions deliver infrastructure to help to bridge the homework gap
- Cambium Homework Gap resource page: <a href="https://www.cambiumnetworks.com/solutions/homework-gap/">https://www.cambiumnetworks.com/solutions/homework-gap/</a>
- Be sure to download webinar handouts

## Questions

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## **Thank You**



