

eduroam in K-12 Schools

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December 6, 2022



Agenda

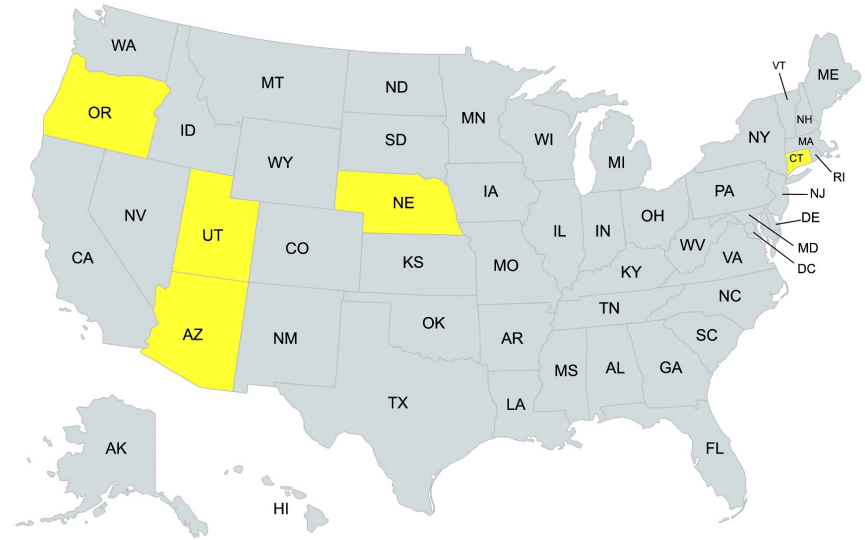
- eduroam Support Organization Program
 - What is it? Who is it?
 - Nebraska's Experiences
- Unique issues impacting K-12s
- Google identities with eduroam
- How you can get involved/engaged
- Questions

The background of the slide is a photograph of a library or computer lab. In the upper portion, several students are seated at tables, some wearing large headphones and using laptops. A woman, likely a staff member, is visible in the background. The lower portion of the image shows a woman with long brown hair leaning over a desk, assisting a young boy with a laptop. The laptop has a red sticker that says "Supreme" and "DIGITAL WRITING". The boy is wearing a grey jacket with "honors" and "DIGITAL WRITING" visible on it. The overall scene depicts a supportive learning environment.

eduroam Support Org Program

What is the eduroam SO program?

eduroam in K-12 State Networks



eduroam Support Org Program

- Piloted in 2019 with Utah Education and Telehealth Network (UETN)
- In 2020, a request for proposals was opened to become the next states:
 - 2021, accepted Arizona and Nebraska
 - 2022, Connecticut, Oregon
- SOs are responsible for operational support and administration of the eduroam rollout within their community: K-12 schools, Libraries, Museums

Site Administrator Login

Username

Password

Remember me

Login

This path is for authenticating if you have been given a username password combination to the FM.

[Forgot your password?](#)

eduroam/IAM Login

Login

This path is for authenticating using Internet2's Identity and Access Management (IAM) Services.

Questions? Visit our [wiki](#) or contact help@incommon.org.

Support Organization eduroam Dashboard

Expand All ▾

[i eduroam Support Organization Administrators for ConnectEd Nebraska](#) ▾

[eduroam Constituents](#) ▾

[All Realms](#) ▾

SO Responsibilities

- Constituent sign-up/contracting
- Admin roles within Federation Manager
- Approving domains/realms
- General technical support



ConnectEd Nebraska

Simple, Secure,
Easy to use wifi

powered by





ConnectEd Nebraska

18-month Status December 2022

Press Release July 21st, 2021

Select Language



News Release

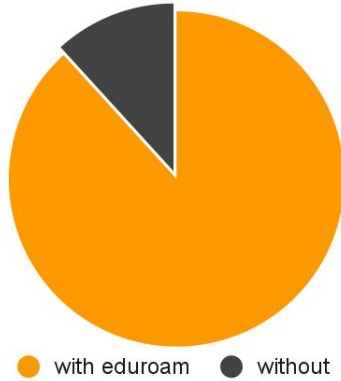
July 21, 2021

CONNECTED NEBRASKA OFFERS FREE WIRELESS INTERNET TO NEBRASKA SCHOOLS

The Nebraska Department of Education (NDE), the Office of the Chief Information Officer, Network Nebraska, and the University of Nebraska unveiled ConnectEd Nebraska, a new educational internet program for Nebraska K-12 schools. This program is powered by *eduroam* and provides students and educators with free and readily available access to guest wireless networks at participating ConnectEd Nebraska *eduroam* schools.

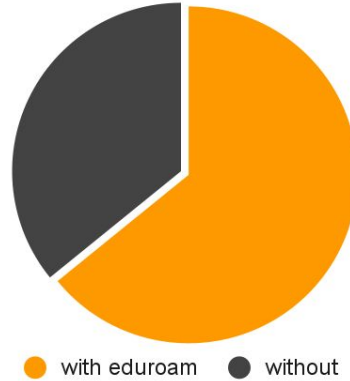
ConnectEd Nebraska is currently funded by Coronavirus Aid, Relief, and Economic Security (CARES) Act money and free to Nebraska school districts for three years. "In the spring of 2020, the NDE administered a public survey designed to prioritize Covid-19 relief funds in a way that most benefits Nebraska students, families, and school communities," said Commissioner Matthew Blomstedt. "Respondents identified the top need as enhancement of technology infrastructure, including Wi-Fi and broadband access. ConnectEd Nebraska is committed to

ESUs



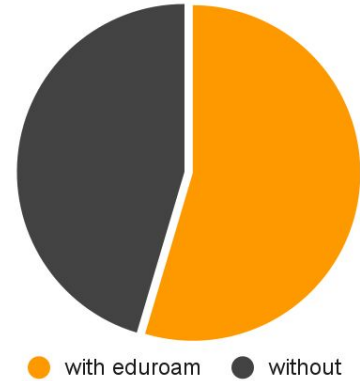
88%

Districts



64%

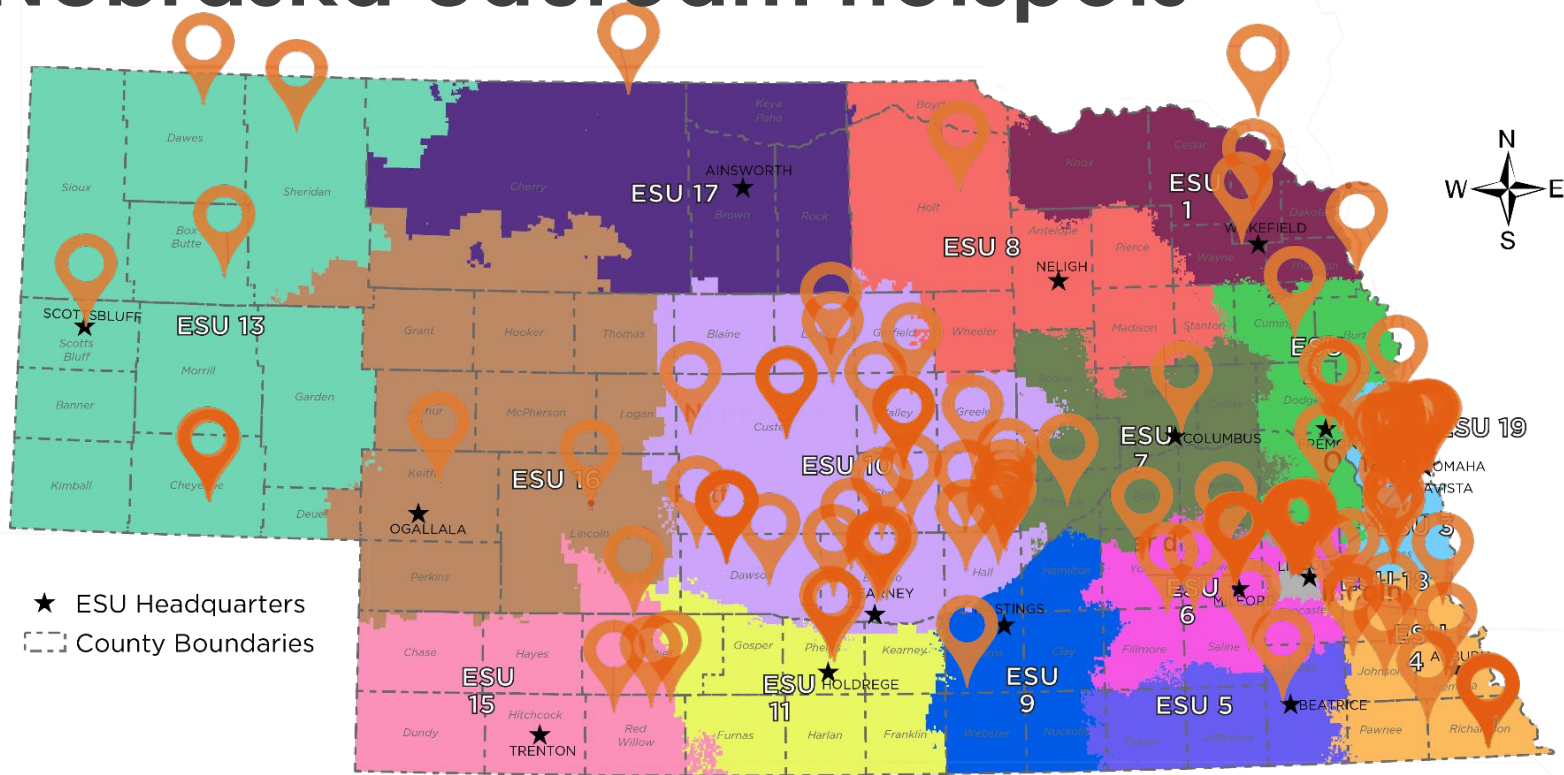
Students



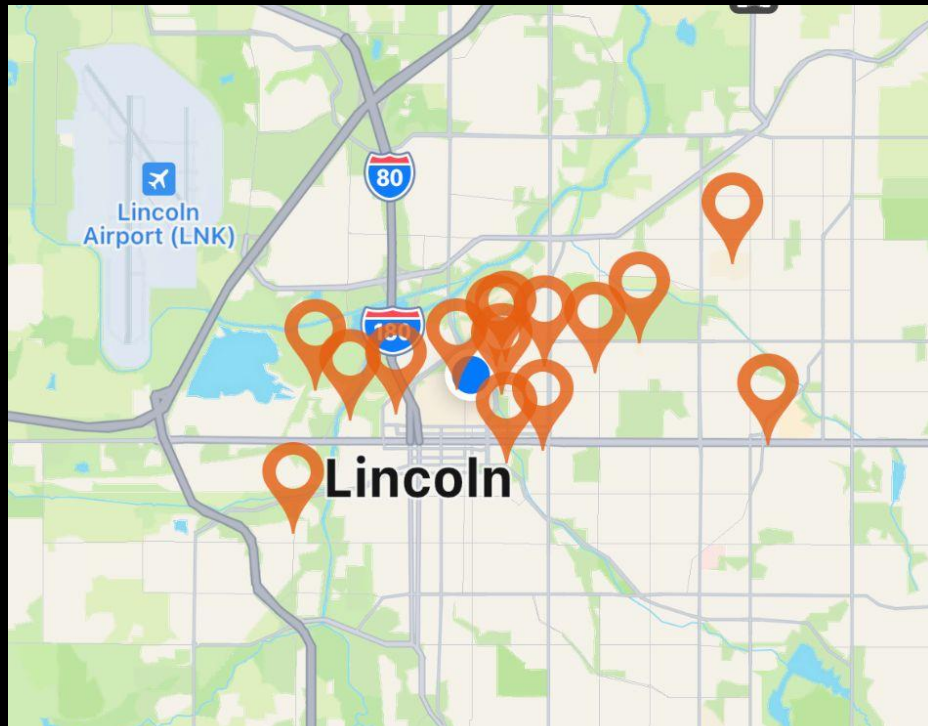
54%

170 eduroam hotspots in Nebraska

Nebraska eduroam hotspots



Internet Service Provider Partnerships: In Production



Broadcasting at 11 non-profits around Lincoln. Actively working on an opt-in program for all subscribers.



ConnectEd Nebraska

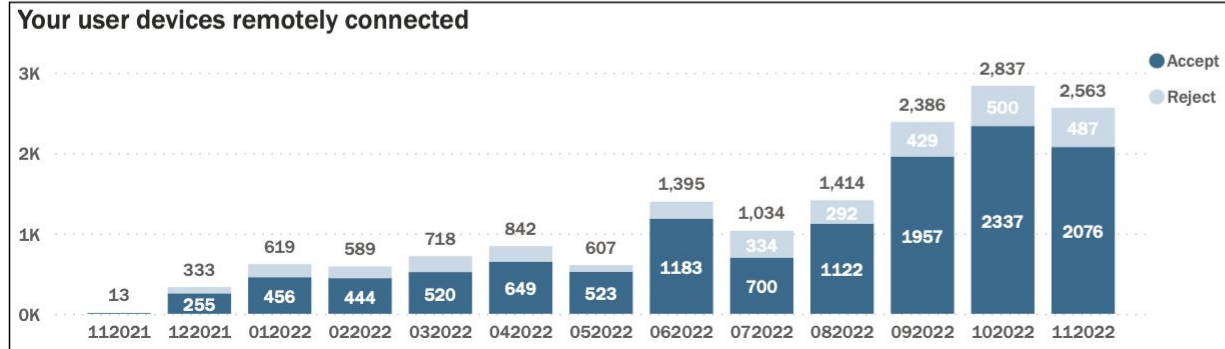
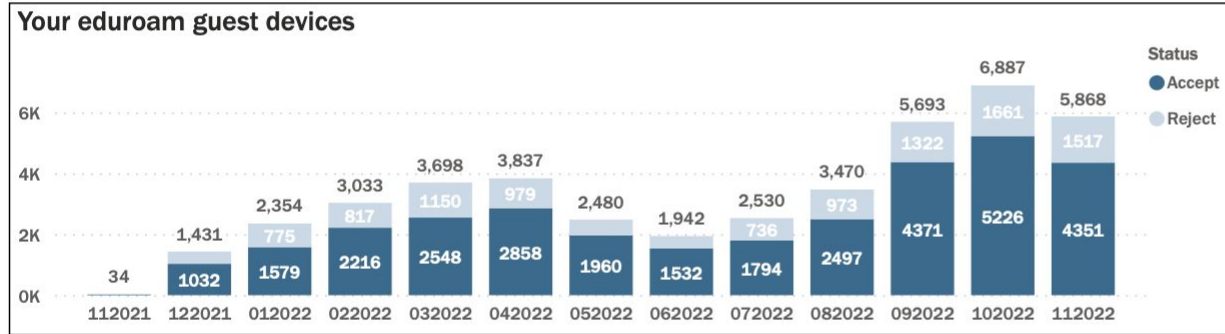
Measuring Success

November 2022



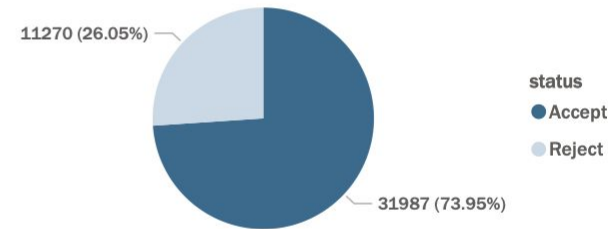
eduroam Activity:

Distinct device activity over the last twelve months

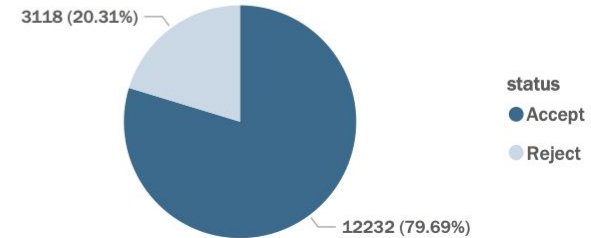


Authentication request for the month

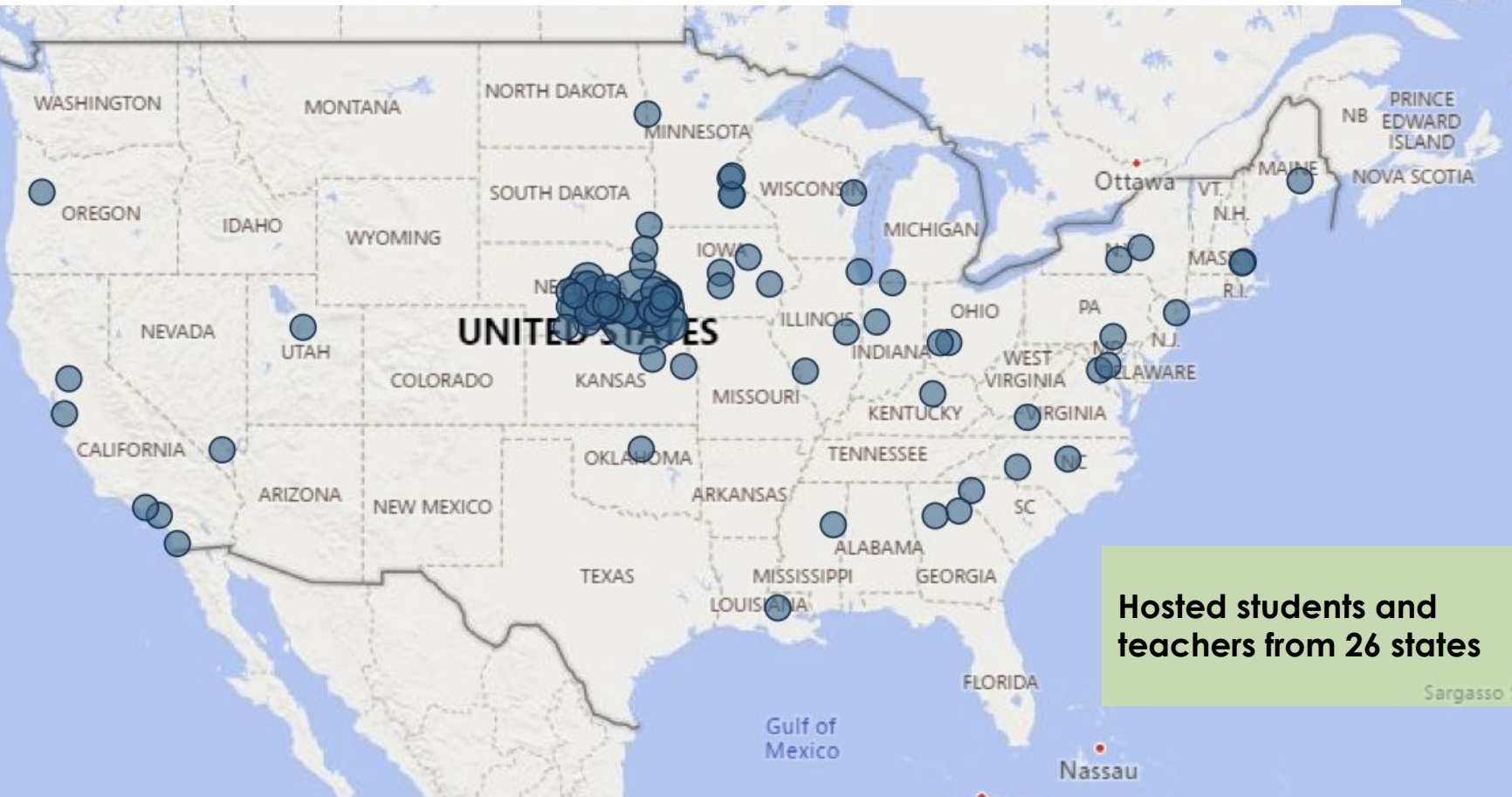
Your eduroam guest authentications



Your users remotely connected

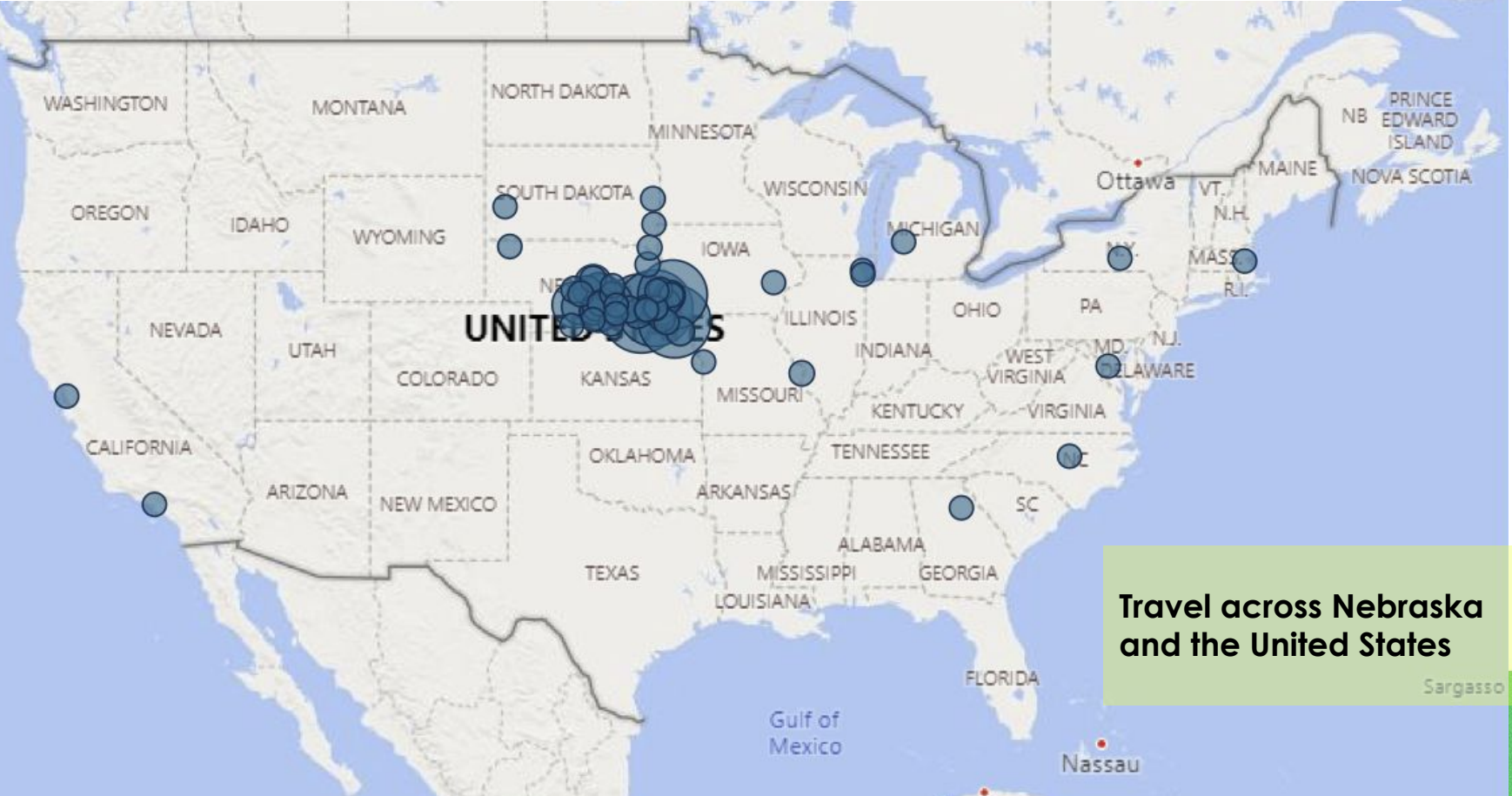


January-June eduroam guests:



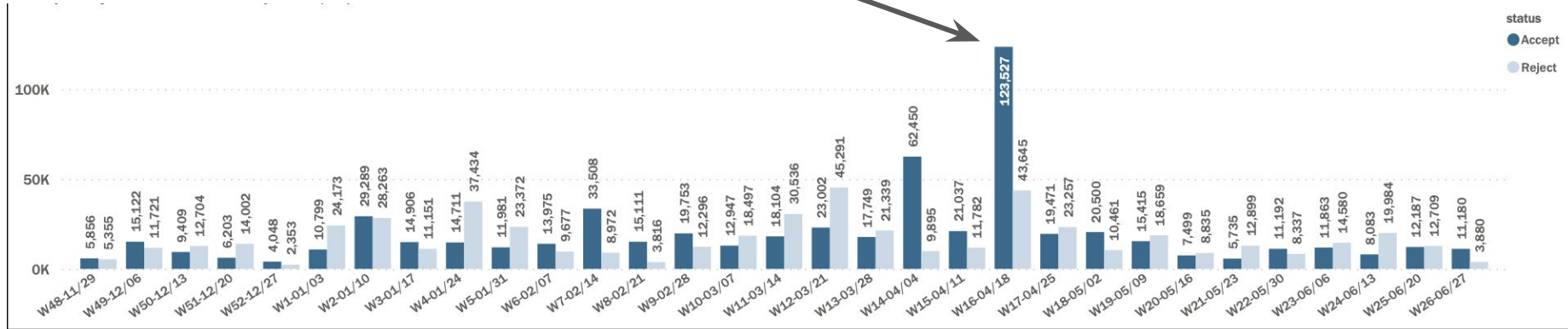
Hosted students and teachers from 26 states

January-June eduroam travel:



Weekly Authentication Requests

123k authentication requests



NETA

Nebraska Educational Technology Association

 CHI Health Center OMAHA

CONVENTION CENTER





ConnectEd Nebraska

Issues Impacting K-12

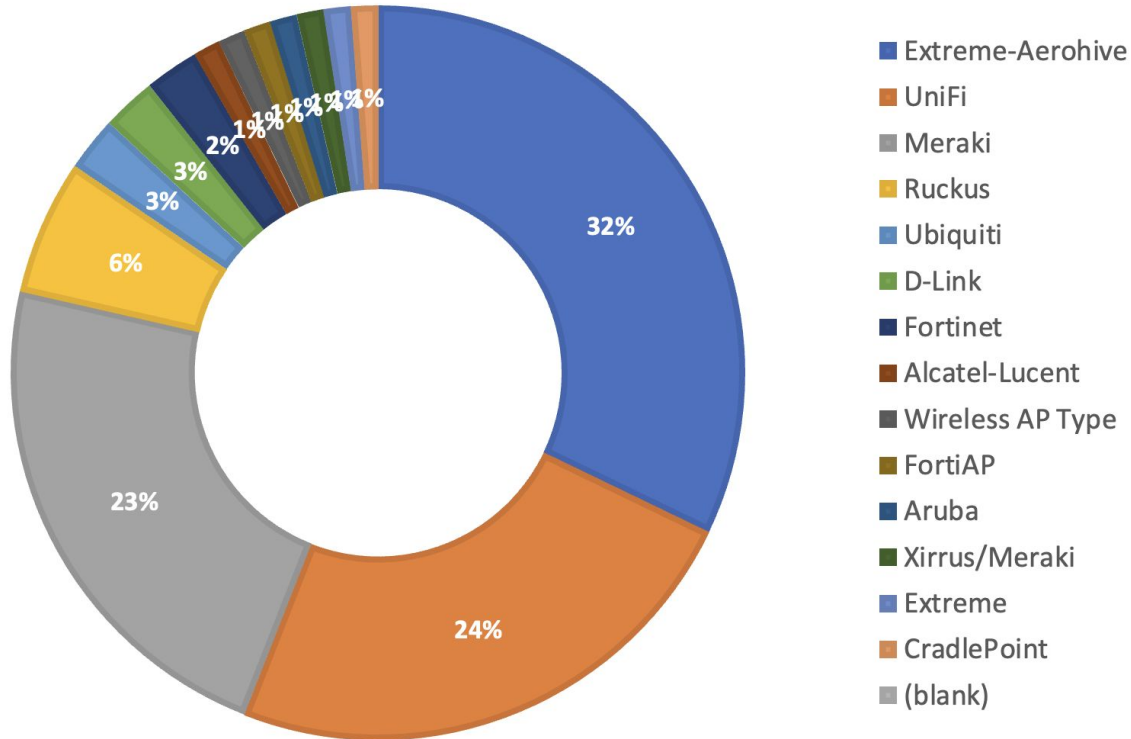
Why K-12 schools, libraries, and museums are different than your traditional HE eduroam deployment



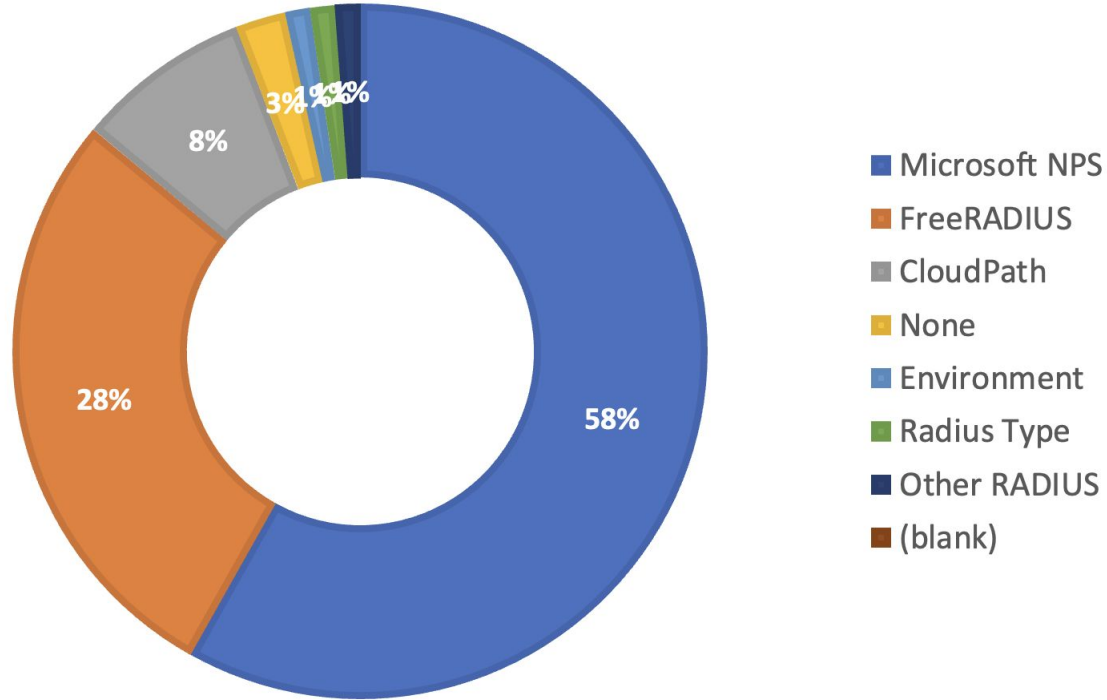
Issues unique to K-12 Schools

- Content filtering, e-rate funding
- Maturity of infrastructure and experience of personnel
- One-to-one vs classroom device deployments
- Wide variety of equipment, APs, controllers, radius servers
- Identity stores, e.g. Google

Access Point Hardware



Radius Server Types





PAINLESS
SECURITY

Google identities with eduroam

Mark Donnelly





How to get involved

December 2022



What's Next: Awareness and Outreach

- CoSN Presentation, Utah & Nebraska: March 2023
- Continue state rollouts
 - Utah: SP/hotspots
 - Nebraska: Enroll remaining schools, Libraries, Museums
 - Arizona: Expand school districts to gain critical mass
- You're Next! Watch for Request for Proposals!

What can you do?

- Build connections
 - Superintendents, Tech Directors, Educational Service Units, Department of Education, REN Operators, Higher-ed partners!
- You're Next! Watch for the Request for Proposals

Questions and Continued Conversation

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