



REANNZ

28 October 2020

EDUROAM UPDATE

BIG NUMBERS, NEW TOOLS, GLOBAL REACH

REA/VNZ



Introduction

eduroam In Context



Introduction

eduroam Update

- Global Coverage
- Local Coverage
- Deployment Suggestions
- Usage Statistics
- Monitoring
- eduroam Configuration Assistance Tool (CAT)
- eduroam Applications

eduroam Coverage



eduroam Coverage

Where In New Zealand?

- <https://member.eduroam.net.nz> OR
- eduroam Companion



eduroam Coverage

Who In New Zealand?

- Universities : 8
- Crown Research Institutes : 5
- Institutes Of Technology, Polytechnics, And Wānanga : 7
- Education Sector : 4
- Innovation : 4
- SP : 2
- TOTAL : 30

Deployment

Why Not Use eduroam Everywhere?

Is there a downside?

Significant upsides

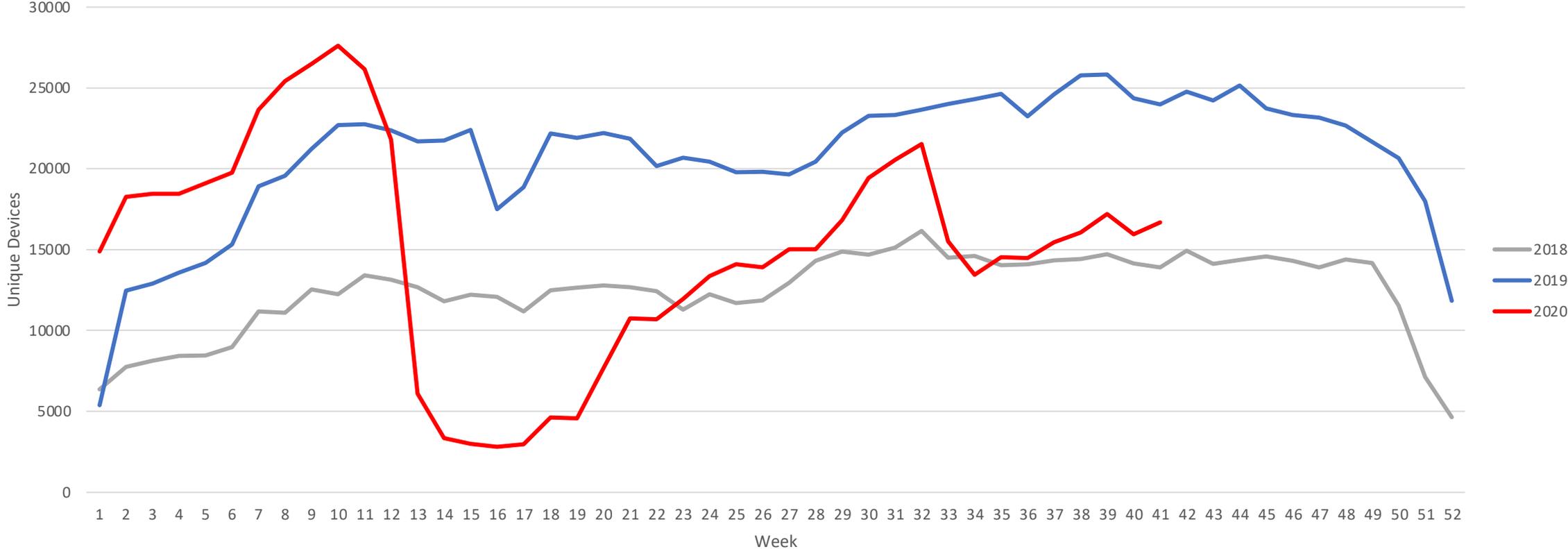
- Less SSIDs to manage
- Security model can stay the same
- All staff and students are ready to roam

Does anyone else do this?

Yes

Usage Statistics

Weekly Unique Devices On eduroam in New Zealand 2018-2020



Member Statistics

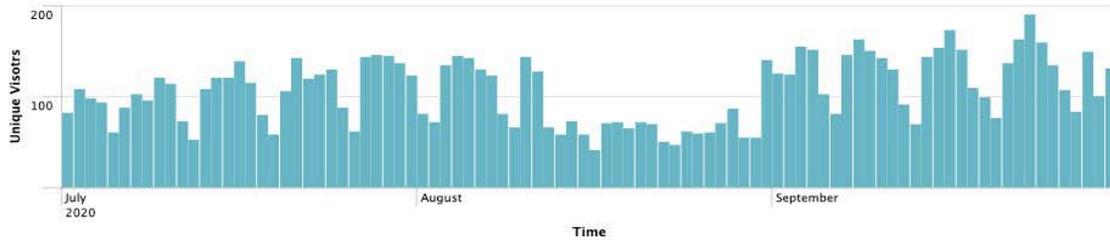
Total Unique Visitors

1h ago

2026

Unique Visitors Over Time

1h ago



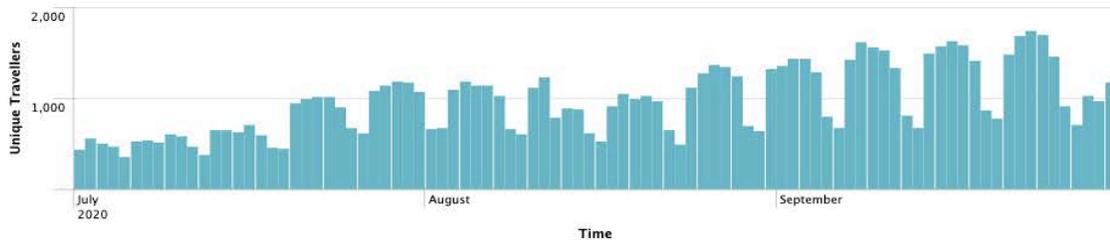
Total Unique Travellers

1h ago

7063

Unique Travellers Over Time

1h ago



Total Unique Domains

1h ago

202

Top Visitor Domains

1h ago

User Domain	Unique Devices
auckland.ac.nz	616
otago.ac.nz	401
whitireianz.ac.nz	176
autuni.ac.nz	123
aut.ac.nz	79
student.sit.ac.nz	71
uoa.auckland.ac.nz	42
canterbury.ac.nz	24
pfr.co.nz	22
sit.ac.nz	22

Total Unique Sites*

1h ago

28

Top Traveller Sites

1h ago

SITE	Unique Devices
University of Otago	4669
Dunedin City Council	2007
Eastern Institute Of Technology	651
Auckland University of Technology	635
Manaaki Whenua Landcare Research	616
University of Auckland	603
Plant & Food	551
w2squared	512
Ministry Of Education	429
Citylink	205

Monitoring

Need To Monitor Both SP and IdP

SP monitoring (visitors to your site)

- REANNZ provides a membertest@reannz.co.nz account to all eduroam members
- Testing this from your site is a test of how well a visitor will be able to use your eduroam

IdP monitoring (your travelers visiting other sites)

- REANNZ requests a reannztest@your.realm.nz account on your IdP
- REANNZ will monitor whether your IdP is available remotely

Other monitoring

- REANNZ monitors RADIUS STATUS on servers with this feature
- Monitoring visitors and travelers will detect issues

eduroam Configuration Assistant

(AKA eduroam CAT)

What is it?

It's a tool to securely streamline the enrollment of users into eduroam

Who needs it?

Any institution and user can benefit from using CAT

eduroam Configuration Assistant

How does it work?

- Built by GÉANT, available to the R&E community via your NRO
- You configure your institutional settings
- Either
 - Your users download the eduroam settings appropriate for their device OR
 - Your ITS team install the configuration as part of a build process
- Certificates automatically installed to improve security

eduroam Configuration Assistant

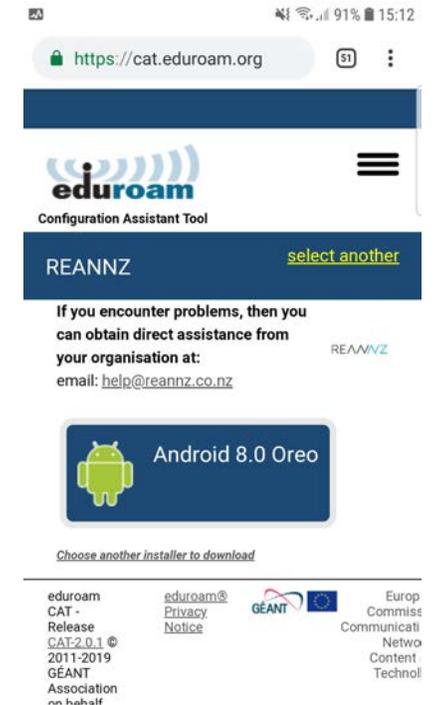
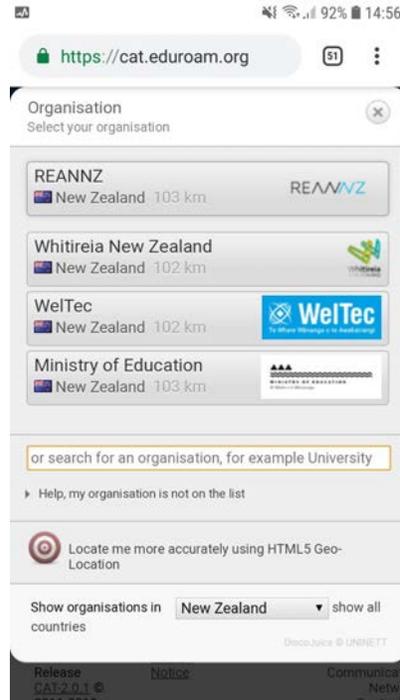
What options does it support?

It should support almost any use case

- Multiple realms
- Multiple SSIDs
- Helper SSIDs / Self service captive portals
- Anonymous outer identity
- Error checking of entered fields
- Helpdesk contacts
- Wired ethernet

eduroam Configuration Assistant

What is the user experience like?



eduroam Configuration Assistant

How do I get started?



eduroam Managed IdP

What is it?

A managed eduroam IdP As A Service (IAAS) to enable smaller member organizations to benefit from eduroam

Who needs it?

Any member organization who lacks the technical or infrastructure capability to manage their own eduroam IdP

eduroam Managed IdP

How does it work?

- Provided to the R&E community by GÉANT via your NRO
- Server infrastructure hosted and managed by GÉANT
- User management by institution
- Limit of 200 users per institution
- Limit of 10,000 users per country
- No integration with external sources of truth

eduroam Managed IdP

How do I get started?

- Contact REANNZ
- Configure your IdP
- Upload users by .CSV
- Send invitations to users
- Enrolment is by eduroam CAT

eduroam Applications

Available from App Stores

eduroam Companion

- Shows nearest eduroam AP
- Available for Android/iOS

eduroam CAT

- Helper application to install CAT configurations onto Android
- Only required for Android

28 October 2020

THANK YOU

Are there any questions?

REANVZ

