

# Welcome Your Campus Visitors with eduroam!

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### What is CANARIE's Canadian Access Federation (CAF)?

**Federated Identity Management (FIM):** secure and controlled access to digital resources through a federated framework



eduroam: secure Wi-Fi for research and education; allows users to instantly gain internet access from participating sites throughout the world, using their home institution's login credentials



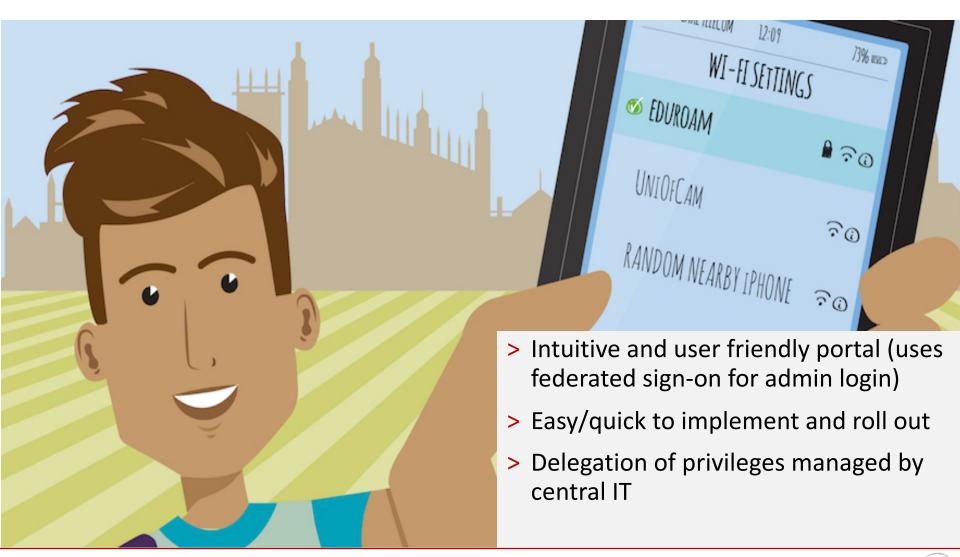
#### What is eduroam Visitor Access (eVA)?

A CANARIE hosted service that allows institutions to create temporary eduroam accounts for their visitors.



eVA will be rolled out in 2019.

#### What is eduroam Visitor Access (eVA)?



#### **eVA** Benefits

 Security of eduroam available to <u>all</u> campus Wi-Fi users

2. Reduces the number of transient credentials

3. Lowers operational costs and speed of deployment for guest Wi-Fi

4. Nationally consistent and familiar service benefits frequent guest Wi-Fi users

#### "Regular eduroam" vs. eVA accounts

> No technical differences

> Access is equivalent to roaming eduroam users

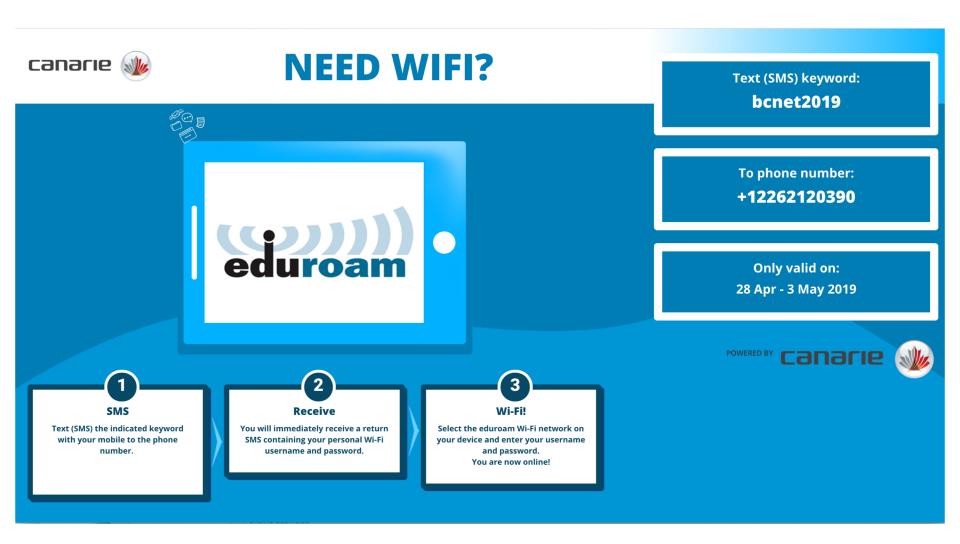
> Risk profile is on-par or better than regular eduroam

#### eVA Account Creation Methods

1. Individual Visitor Accounts

- 2. Batch/Group Accounts
- 3. SMS for Events





#### **Next Steps**

> Determine if eVA is the right fit for your organization

> Start planning for your eVA deployment

> Stayed tuned for the CAF eVA production release announcement and introductory webinars (currently planned for Summer 2019)!

#### eduroam Network Security

Security is a not a thing but a practice.



A "defense in depth" approach allows for best security practices to evolve and be applied.

## Use eduroam Visitor Access and do not offer open SSIDs.



Open SSIDs put users at risk of rogue access points, man-in-the-middle (MITM) attacks, and data capture.

Available Support actions

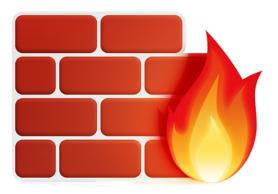
Use cat.eduroam.org to offer a security-first configuration as the easiest path to connect.



• •		
Check another realm's reachability		Go!
Check National Roaming Operator server status	Go!	

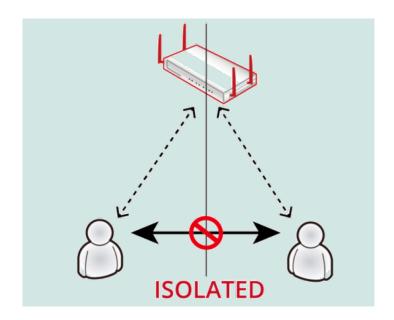
Site admins can secure access to 23 different device profiles and test their site reachability in real time.

Assign users by realm.

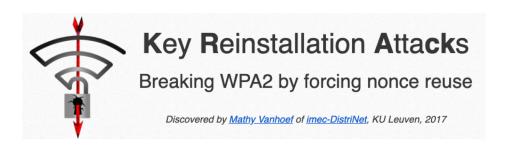


eduroam visitors outside your firewall; trusted users inside.

Isolate APs to mitigate risk of traversal attacks.



Layer defense mechanisms so that if one layer is challenged, the whole is protected.





eduroam 802.1x and TLS certificates are unaffected by WPA2/3 threats.

Use anonymous outer identities to protect personally identifiable information (PII).



#### eduroam - Security Checklist



Use eduroam Visitor Access and do not use open SSIDs.



Use cat.eduroam.org to offer most secure & easiest path to connect.



Assign users by realm.



Isolate APs to mitigate risk of traversal attack points.

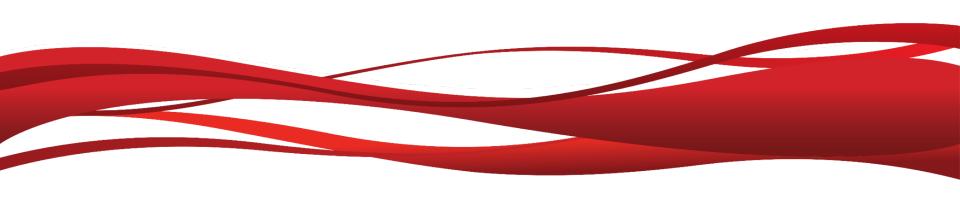


Layer defenses to mitigate risk of individual attacks.



Use anonymous outer identities to protect PII.

### **Questions?**







canarie.ca | @canarie\_inc