



# User Authentication in the Fast Lane: *eduroam* as your primary campus SSID

## Case Study: University of the Fraser Valley



IT requirements at higher-ed institutions are constantly evolving, the result of emerging technological trends, a steady flow of incoming and outgoing students, and the continuous movement of faculty and researchers between buildings and campuses. The result is a dynamic infrastructure that's time consuming for IT professionals to maintain.

Most Canadian post-secondary institutions provide several campus-wide wireless networks for their students and faculty, in addition to *eduroam*, the global Wi-Fi service for education and research communities. This requires the IT staff to manage credentials and permissions for each network, in addition to the configurations required to offer *eduroam*.

Users also pay the price in lost time whenever they have to pull up a browser, enter a username and password, and accept terms and conditions every time they want wireless Internet access.

## A lighter load for IT, better UX for students and faculty

The University of the Fraser Valley (UFV) is a regional teaching facility in British Columbia with about 16,000 students and 1,200 staff spread out across eight different campuses. Bryan Daniel, Manager of IT Infrastructure, and Shane Schlosser, Team Lead for the IT Systems Group, first considered *eduroam* for its ability to connect students and faculty to a broader educational network. "We knew a number of other BC universities were using *eduroam* and we wanted to offer it as a service to our customer base," explains Bryan.

## A single campus-wide wireless network

During initial discussions with CANARIE (the Canadian provider of *eduroam*), UFV realized that *eduroam* could also be used to simplify wireless access for local users, turning their cumbersome web-based login process into a one-time authentication setup. Not only would *eduroam* make everyday access easier for users, it would lessen the university's overall IT workload with fewer systems to manage: *eduroam* would simply act as UFV's primary wireless service set identifier (SSID).

"Our only reservation was the burden a network migration would place on users," recalls Shane. "The multitude of devices and operating systems on the market make initial device configuration a huge challenge." As a case in point, when UFV looked at other *eduroam*-enabled universities, they discovered a document for connecting Windows 7 devices that was pages long. This scared Shane: "We wanted to use *eduroam* as our primary wireless network but we just couldn't ask our user base to do this kind of complicated manual install."

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Bryan Daniel, Manager of IT Infrastructure

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So when CANARIE offered UFV the opportunity to pilot a new *eduroam* configuration tool that would automate the user installation process, Bryan and Shane jumped at the chance.

## Simplified wireless access at all *eduroam*-enabled institutions

*eduroam*'s web-based Configuration Assistance Tool (CAT) automates the installation of security certificates and user credentials on all manner of user devices, making setup a simple process. Once installed, this configuration makes network access seamless. "Users previously needed to re-authenticate every time they wanted to get online," explains Bryan. "Now, once their device is configured, they don't even need to log in." Shane laughs when he adds: "Our users would never go back."

## Seamless access, fewer helpdesk calls

Students and faculty who travel to other institutions benefit even further. *eduroam* accounts that are correctly configured at home guarantee seamless access at other *eduroam*-enabled institutions. People no longer have to call helpdesk in a panic an hour before they travel or when they get somewhere and realize they don't have access. With *eduroam* as the university's primary Wi-Fi access mechanism, people can move from campus to campus or even university to university without giving secure wireless access a second thought.

The University of the Fraser Valley is still in the process of migrating to the new *eduroam* network, having migrated about two-thirds of its user base to date. Shane believes, "Without the simplicity enabled by CAT, most people would still be on the old solution using a web-based login." Bryan is quick to add: "The convenience of user setup is critical. While the service itself can be functional in a couple of days, user adoption rates are what guarantee success."

Migrating to *eduroam* as its primary SSID has resulted in simplified management of user accounts, seamless wireless roaming for students throughout the campus and at *eduroam*-enabled sites worldwide, and effortless access for visiting students and faculty...a win-win for both the IT department at UFV, and their users.

## 7 Easy steps to migrating *eduroam* as your primary SSID

1. Join CAF online  
[canarie.ca/identity/join/](https://canarie.ca/identity/join/)
2. Request invitation to the *eduroam* Configuration Assistant Tool (CAT)  
*Log in using Federated Single Sign-on*
3. Download IdP Installer from [collaboration.canarie.ca](https://collaboration.canarie.ca)  
*Peer your RADIUS server with eduroam.ca and configure access for home and visiting users*
4. Use the *eduroam* Configuration Assistant Tool (CAT) to create device installers and test device configurations  
*CAT generates a QR code and URL for auto-configuring popular devices*
5. Create "*eduroam*" and "*eduroam*-help" wireless networks  
*Optionally, set up VLANs to segregate visitor and home user networks*
6. Use "*eduroam*-help" SSID to on-board new users to "*eduroam*"  
*Users access your institution's QR code to configure their device*
7. Outreach to user community  
*Use a variety of promotional channels to reach your community*

Could your institution benefit from *eduroam* as your primary SSID?

Contact [caf@canarie.ca](mailto:caf@canarie.ca)