

eduroam Federation Manager - eduroam Admin User Guide

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Introduction

Included in this guide are instructions to assist you with the information that needs to be completed on each page. This guide provides information on updating each page and submitting the changes for your organization's eduroam configuration.

Logging In

To access the eduroam Federation Manager portal, use the link:

- https://service1.internet2.edu/Shibboleth.sso/IAM_Login

The landing page displays all roles available to you in the portal.

Dashboard Links

[InCommon Registration Authority Dashboard](#)
[eduroam Registration Authority Dashboard](#)

Your Current Roles

- [Registration Authority Administrator for Internet2](#)
- [eduroam Administrator for Internet2](#)
- [eduroam Support Organization Administrator for Utah Education Network](#)
- [Site administrator for Internet2](#)
- [eduroam Administrator for Utah Education Network](#)

Most users will only have one role to select. Click this link and you will be taken to the Review and Submit page for your organization. If you have multiple roles, select the link next to the organization you would like to access. The Review and Submit page for that organization will be displayed.

Review and Submit

The Review and Submit page provides an overview of your Organization, Service Locations, IdP Realm Radius Servers and Relying Party Radius Servers. If you are a new organization and you have not yet completed any configuration each section will be blank.

eduroam Dashboard

Submitted

Organization

Contacts

Service Location

IdP Realms

RP Servers

Review and Submit

Review and Submit

Service Locations

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
Main Campus	42.23435070000001	-83.7284952	WPA2+WPA	IPv6 Enabled	5
Washington, DC	38.9045344	-77.04198209999998	WPA2+WPA	IPv6 Enabled	12
West Hartford	41.7588182	-72.74351690000003	WPA2+WPA	IPv6 Enabled	2
Denver	39.7447003	-104.9887066	WPA2+WPA	IPv6 Enabled	2
Washington, DC	38.9045344	-77.04198209999998	WPA2+WPA	IPv6 Enabled	12

IdP Realm Radius Servers

Realm	Friendly Name	Host	Auth Port	Acct Port
internet2.edu	radius2.wash.internet2.edu	10.2.2.2	1812	1813
internet2.edu	radius0.internet2.edu	10.1.1.1	1812	1813

Relying Party Radius Servers

Friendly Name	Host
radius2.wash.internet2.edu	10.4.4.4
radius0.internet2.edu	10.3.3.3

[Previous](#)

Once you are on the Review and Submit page, you will be able to select the specific page you would like to have displayed by clicking the page link in the left hand navigation or you can click the Next button which will take you to the organization page.

The Review and Submit page is also the page which allows you to submit all changes you have made for Radius configuration. The status displayed at the top of the page indicates the state of your organization's configuration. The Status section describes the different statuses.

Status

New

When you are a new organization and have not yet started to complete your configuration, your status will be new.

eduroam Dashboard

[New](#)

- Organization *
- Contacts *
- Service Location
- IdP Realms
- RP Servers
- Run Tests
- Review and Submit

Review and Submit

The following elements must be added before submission:

- The following ContactPerson types are missing: support
- Organization is missing the following fields: info url, policy url, address, venue type

Service Locations

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
------	----------	-----------	-----------------	------	---------------

IdP Realm Radius Servers

Realm	Friendly Name	Host	Auth Port	Acct Port
-------	---------------	------	-----------	-----------

Relying Party Radius Servers

Friendly Name	Host
---------------	------

[Next](#)

Submitted

The Submitted status indicates your organization's information is live, available to accept RADIUS connections, and listed on the [eduroam Map](#).

eduroam Dashboard

Submitted

Organization

Contacts

Service Location

IdP Realms

RP Servers

Run Tests

Review and Submit

Review and Submit

Service Locations

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
Main Campus	36.0029395	-78.93836660000001	WPA		50

IdP Realm Radius Servers

Realm	Friendly Name	Host	Auth Port	Acct Port
duke.edu	Duke IDP	1.1.1.1	1812	1813

Relying Party Radius Servers

Friendly Name	Host
---------------	------

Next

Editing

Once you have modified information on any page the status for your organization's configuration changes to Editing. When you have completed all the changes you need to make, click the Submit eduroam Configuration Changes button to save the changes and submit the updates to your configuration. Changes do not need to be completed all at once. You can stop making modifications at any time and leave the application. When you return to the Review and Submit page, you can select to make additional modifications or submit your changes. *Changes do not take effect until they are Submitted.*

eduroam Dashboard

Editing

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Review and Submit

[Submit eduroam Configuration Changes](#)

Service Locations

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
Main Campus	36.0029395	-78.93836660000001	WPA		50

IdP Realm Radius Servers

Realm	Friendly Name	Host	Auth Port	Acct Port
duke.edu	Duke IdP	1.1.1.1	1812	1813

Relying Party Radius Servers

Friendly Name	Host
---------------	------

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Submitted

Once the changes are saved the Review and Submit page will be re-displayed with the status showing as Submitted. This indicates that all changes have been saved and submitted for your eduroam configuration. Server configuration changes typically take 10 minutes to propagate. Map updates can take up to a day to appear.

eduroam Dashboard

Submitted

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Review and Submit

Service Locations

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
Main Campus	36.0029395	-78.93836660000001	WPA		50

IdP Realm Radius Servers

Realm	Friendly Name	Host	Auth Port	Acct Port
duke.edu	Duke IdP	1.1.1.1	1812	1813

Relying Party Radius Servers

Friendly Name	Host

Previous

Updating your eduroam Configuration

General Hints

Once you have selected to edit, certain indicators will be displayed behind the data field names

- A red asterisk * identifies this field as required
- An info icon when clicked will provide information to assist with describing the data field
- When you attempt to Save modifications and there are errors, an error message will be displayed in red such as **Institution Name a required field.**
- When updates are completed:
 - Click the Cancel link to revert the configuration to the last saved values
 - Click the Save to save the updated information
- Page navigation is controlled in the following three ways
 - In the left navigation, click the link for the page to be displayed
 - If you are on a configuration page, click the Previous button to go to the prior page or click the Next button to go to the next page.

This section provides information and screen examples for updating your configuration. Configuration information is presented for the following pages:

- Organization
- Contacts
- Service Locations
- IdP Realms
- Hotspot Servers

Organization

The organization page includes sections for organization details and organization address and contains the information currently configured for your organization.

eduroam Dashboard

Submitted

Organization

Contacts

Service Location

IdP Realms

RP Servers

Review and Submit

Manage Organization: Internet2

Collapse All ▾

Organization Details ▾

Organization Type	IdP+SP
Institution Name	Internet2
Venue Type	Research and Development Facility
Organization URL	https://internet2.edu
Policy URL	https://incommon.org/about/policies/
eduroam Configuration URL	https://staff.internet2.edu/tsg/eduroam.html

[Edit](#)

Address ▾

Address 100 Phoenix Dr Ste 111, Ann Arbor, MI 48108

Coordinates 42.23435070000001, -83.7284952



[Edit](#)

[Next](#)

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You can select to edit either the organization or organization address information.

Organization Details Update

To edit the organization details section, click the Edit button at the bottom right of the section. The organization details will be displayed as follows.

Edit Organization Details



Organization Type IdP+SP

Institution Name *

Cancel

Save

Organization Venue Type

Organization URL *

Policy URL *

eduroam URL *

* Required Information

Fields that can be updated will be opened for update. URL fields must be the complete URL and be well-formed.

Organization Address Update

To edit the organization address section, click the Edit button at the right of the address. The organization address and map will be displayed as follows.

Address



Address 1 *

Cancel

Save

Address 2

City *

State * **Zipcode**

Latitude

Longitude

Search for this Address

Use Current Location



* Required Information

Fields that can be updated will be opened. Once address information is updated, click the Search for this Address button to update the latitude and longitude and the map. Click the use this address button to update the address with your current location.

Contacts

The contacts page displays the contacts that are currently configured for your organization. Contacts can be updated, deleted and added.

Dashboard Help ▾ Your Current Roles ▾ serickson@unicon.net ▾

Signed in successfully.

eduroam Dashboard

Submitted

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Review and Submit

Contacts

Contact Type	Name	Email	Phone Number		
Support	Internet2 Techsupport	support1@test.edu	(555) 111-1111	Edit	Delete
Reporting	Internet2 Techsupport	reporting@test.edu	(555) 222-2222	Edit	Delete
Support	Sara Jeanes	support2@test.edu	(555) 333-3333	Edit	Delete
Support ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>	Add	

Previous Next

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A support contact is required. The support contact will receive critical notifications on service maintenances, outages, and other important updates.

Reporting contacts will receive the monthly, bi-annual, and annual reports for their organization. Note that if you do not designate reporting contacts nobody from your organization will receive these reports.

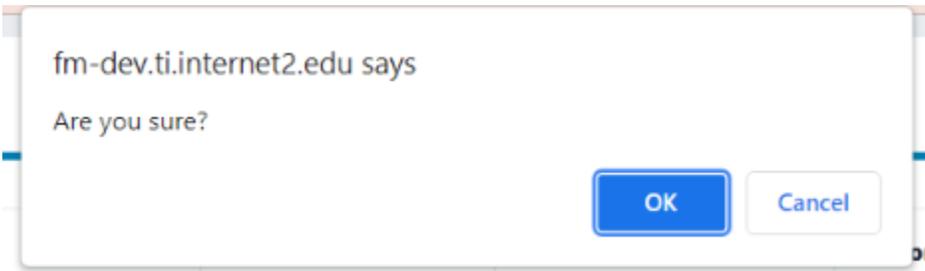
Update Contact

To update a contact, click the edit button. The date fields will be opened for update for the contact selected.

Contact Type	Name	Email	Phone Number		
Support ▾	Internet2 Tec	support1@test.edu	(555) 111-1	Save	Cancel
Reporting	Internet2 Techsupport	reporting@test.edu	(555) 222-2222	Edit	Delete
Support	Sara Jeanes	support2@test.edu	(555) 333-3333	Edit	Delete
Support ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>	Add	

Delete Contact Confirmation

To delete a contact, click the Delete link. A confirmation modal will be displayed for the delete.



Click the OK button to confirm the delete. The contact will be deleted. Click the Cancel button to cancel the delete.

Add Contact

To add a contact, enter the information in the boxes provided.

<input type="text" value="Support"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>
--------------------------------------	----------------------	----------------------	----------------------	------------------------------------

The order of the fields to be entered are contact type, name, email and phone number.

Once all information has been entered, click the Add button. The contact will be added and the page will be re-displayed with the new contact displayed in a new row in the table.

Service Locations

The service locations page displays each Service Location that has been configured for the organization. Service Locations can be updated, added and deleted. The service location information you provide here will be reflected in the national eduroam US map. Note that changes made in the eFM may take up to 24 hours to propagate out to the national map.

Signed in successfully.

eduroam Dashboard

Submitted

Organization

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Service Locations

Collapse All

Real-life locations where eduroam can be accessed within your organization, including an address with coordinates, encryption and venue type details, and more. You will always use an SSID of eduroam.

Service Location: Main Campus

Location Details

Name Main Campus
Encryption Type WPA2+WPA
Location Venue Type
Number of APs 5
Information URL https://example.com
Tags: IPv6 Enabled

Edit

Delete

Address

Address
Coordinates 42.23435070000001, -83.7284952

Edit



Add a New Service Location

Location Details

Name ***Encryption Type** WPA2**Location Venue Type** University or College**Number of APs** **Information URL** **Tags** Port Restrictions IPV6 Enabled

Address

Address 1 *

Address 2

City *

State *

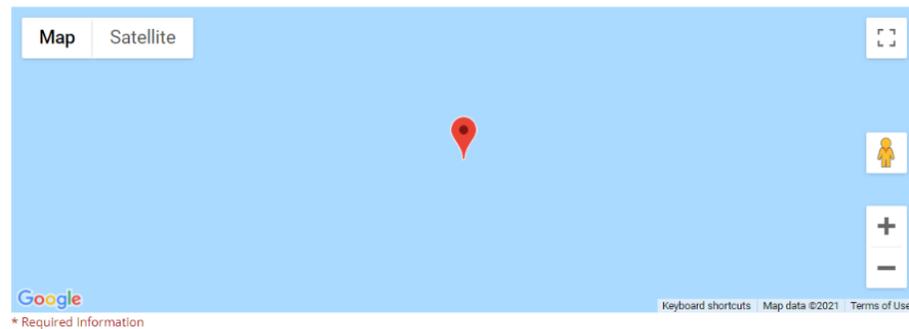
Zipcode *

Latitude

Longitude

Use Current Location

Map Satellite ☰



 Keyboard shortcuts | Map data ©2021 | Terms of Use

* Required Information

Add

Previous

Next

Edit Service Location

To open the service location to be edited, click the Edit button to the right of the location details.

Name *

Encryption Type

Location Venue Type

Number of APs

Information URL

Cancel

Save

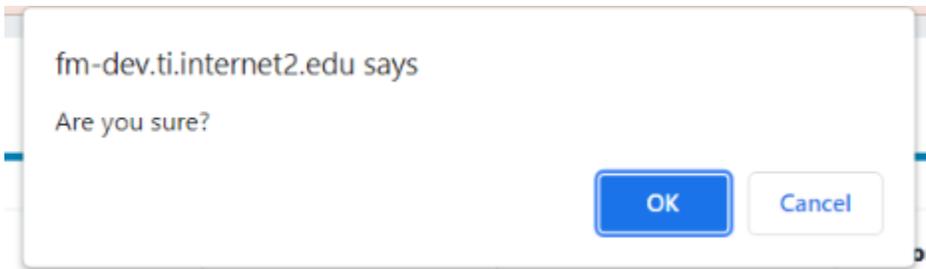
Tags

- Port Restrictions are present at this location.
- IPV6 is enabled at this location.
- Users are NATed at this location.

* Required Information

Delete Service Location

To delete a contact, click the Delete link. A confirmation modal will be displayed for the delete.



Click the OK button to confirm the delete. The service location will be deleted. Click the Cancel button to cancel the delete.

Edit Service Location Address

To open the service location address to be edited, click the Edit button to the right of the address.

Address

Address 1 *

Cancel

Save

Address 2

City *

State *

Zipcode *

Latitude

Longitude

Use Current Location



Fields that can be updated will be opened. Once address information is updated, click the Search for this Address button to update the latitude and longitude and the map. Click the use this address button to update the address with your current location.

Add Service Location

To add a service location enter the information requested.



Location Details

Name *

The name of this location

Encryption Type

WPA2



Location Venue Type

University or College



Number of APs 

Information URL 

 Tags

Port Restrictions

IPV6 Enabled

NATed

Address

Address 1 *

Address 2

City *

State *

Zipcode *

Latitude

0

Longitude

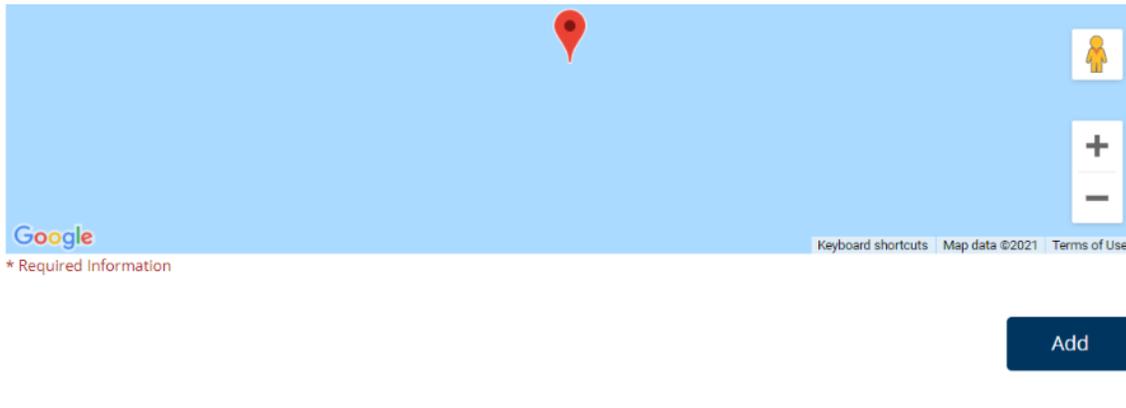
0

Use Current Location

Map

Satellite





Once service location and location address information is entered, click the Search for this Address button to update the latitude and longitude and the map. Click the use this address button to update the address with your current location.

Click the Add button to add the new Service Location. The new service location will be saved and you can then add a new Service Location.

IdP Realms

If you are an SP-only eduroam subscriber, you will not see an option to configure IdP realms.

The IdP Realms page displays the IdP realm(s) and all radius servers for the realms. Realms can be edited and added. Radius servers can be edited, deleted and added.

Signed in successfully.

eduroam Dashboard

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Review and Submit

IdP Realms

IdP Realm: internet2.edu

Approved

Name internet2.edu
Load Balance Type Handler hashbalance

Edit

Radius Servers

Friendly Name	IP Address	Secret	Auth Port	Acct Port	Order		
radius2.wash.internet2.edu	10.2.2.2	*****	1812	1813	1	Edit	Delete
radius0.internet2.edu	10.1.1.1	*****	1812	1813	1	Edit	Delete
<input type="text"/>	<input type="text"/>	<input type="text"/>	1812	1813	2	Add	

Add a New IdP Realm

Name *

Load Balance Type Handler hashbalance ▾

* Required Information

Add

Previous

Next

IdP realms that are unique DNS names can be added and ready for use from within the dashboard. *Radius Servers can be associated to the realm once the realm is added. To delete a realm, it must have zero Radius Servers associated to it.*

Edit IdP Realm

To open the IdP realm for editing, click the Edit button to the right of the realm.

Edit IdP Realm: internet2.edu

Approved

Name internet2.edu

Load Balance Type Handler

Cancel Save

Edit Radius Server

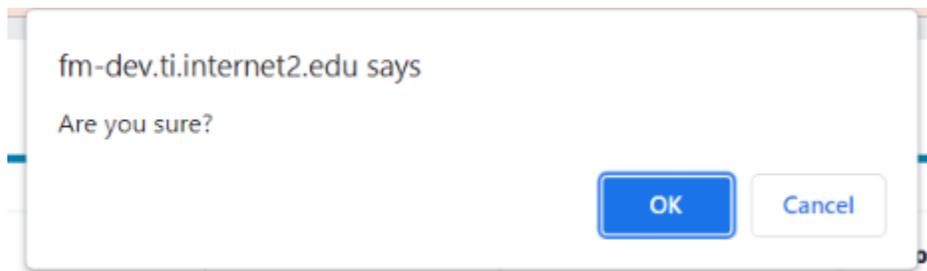
To open a radius server for editing, click the Edit button to the right of the radius server information.

Friendly Name	IP Address	Secret	Auth Port	Acct Port	Order		
radius2.wash.i	10.:		1812	1813	1	Save	Cancel

Even though the secret shows as blank, the field does not need to be updated unless you wish to modify your shared secret. If you do choose to modify the secret, the secret may be a combination of uppercase letters, lowercase letters, numbers, and symbols (printable ASCII characters), excluding \ and ". A minimum of 11 and a maximum of 255 characters are allowed.

Delete Radius Server

To delete the radius server, click the Delete link to the right of the Edit button.



Click the OK button to confirm the delete. The radius server will be deleted. Click the Cancel button to cancel the delete.

Add Radius Server

To add a radius server enter the information requested.

<input type="text"/>	<input type="text"/>	<input type="text"/>	1812	1813	2	Add
----------------------	----------------------	----------------------	------	------	---	-----

The order of the fields is Friendly Name, IP Address, Secret, Auth Port, Acct Port and Order. All fields are required. The secret may be a combination of uppercase letters, lowercase letters, numbers, and symbols (printable ASCII characters), excluding \ and ". A minimum of 11 and a maximum of 255 characters are allowed.

Once all information has been entered, click the Add button. The radius server will be added and the page will be re-displayed with the new radius displayed in a new row in the table.

Add Realm

Enter the information in the fields provided.

Add a New IdP Realm

Name *

Load Balance Type Handler hashbalance ▾

* Required Information

Add

Realm Added

As long as the realm is a unique DNS name, it will be added and ready for use once you click 'Add.' Now you can associate Radius Server records to the realm. Once a realm is added, all of the eduroam Administrators associated to the organization will receive an email noting the addition of the realm.

IdP Realm: internet2test.edu

Name internet2test.edu
Load Balance Type Handler hashbalance

Test Realm

Edit

Delete

Radius Servers

Friendly Name	IP Address	Secret	Auth Port	Acct Port	Order	
<input type="text"/>	<input type="text"/>	<input type="text"/>	1812	1813	1	Add

Radius servers can be added as defined above. Once a radius server has been added, the realm cannot be deleted. To delete a realm, all radius servers must be deleted.

Delete Realm

To delete a realm, first delete all radius servers associated to that realm. Once that is complete you'll see a delete button on the realm.

Note: realms are unique. Once you delete a realm, it's technically available again for you or anyone else to add to a configuration.

IdP Realms

IdP Realm: testrealm.edu

Name testrealm.edu
Load Balance Type hashbalance
Handler

Test Realm

Edit

Delete

RADIUS Servers

The radius secret may be a combination of uppercase letters, lowercase letters, numbers, and symbols (printable ASCII characters), excluding \ and ". A minimum of 11 and a maximum of 255 characters are allowed. [Click here for more information.](#)

Friendly Name	IP Address	Secret	Auth Port	Acct Port	Order	
<input type="text"/>	<input type="text"/>	<input type="text"/>	1812	1813	1	Add

Hotspot Servers

On the Hotspot Servers Page, you will configure the server IP addresses or DNS names for the RADIUS servers or other devices (such as wireless controllers) that will *send* authentication requests from to your organization to other eduroam subscribers, so that their users can be authenticated, as well as a private secret. Hotspot servers can be edited, deleted and added.



Federation Manager : Internet2



Dashboard Help ▾ Your Current Roles ▾ serickson@unicon.net ▾

eduroam Dashboard

Editing

- Organization
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- RP Servers**
- Review and Submit

Relying Party Radius Servers

Friendly Name	IP Address	Secret		
my test	123.123.123.125	*****	Edit	Delete
my server 1	123.123.123.126	*****	Edit	Delete
radius2.wash.internet2.edu	10.4.4.4	*****	Edit	Delete
radius0.Internet2.edu	10.3.3.3	*****	Edit	Delete
<input type="text"/>	<input type="text"/>	<input type="text"/>	Add	

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Edit Hotspot Server

To open an Hotspot server for editing, click the Edit button to the right of the Hotspot server information.

<input type="text" value="my test"/>	<input type="text" value="123.123.123.125"/>	<input type="text"/>	<input type="button" value="Save"/>	<input type="button" value="Cancel"/>
--------------------------------------	--	----------------------	-------------------------------------	---------------------------------------

Even though the secret shows as blank, the field does not need to be updated. The current secret will be used. If you do choose to modify the secret, the secret may be a combination of uppercase letters, lowercase letters, numbers, and symbols (printable ASCII characters), excluding \ and ". A minimum of 11 and a maximum of 255 characters are allowed.

Delete Hotspot Server

To delete a Hotspot server, click the Delete link to the right of the Edit button.



Click the OK button to confirm the delete. The Hotspot server will be deleted. Click the Cancel button to cancel the delete.

Add Hotspot Server

To add a Hotspot server enter the information requested.

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="1812"/>	<input type="text" value="1813"/>	<input type="text" value="2"/>	<input type="button" value="Add"/>
----------------------	----------------------	----------------------	-----------------------------------	-----------------------------------	--------------------------------	------------------------------------

The order of the fields is Friendly Name, IP Address, Secret, Auth Port, Acct Port and Order. All fields are required. The secret may be a combination of uppercase letters, lowercase letters, numbers, and symbols (printable ASCII characters), excluding \ and ". A minimum of 11 and a maximum of 255 characters are allowed.

Once all information has been entered, click the Add button. The Hotspot server will be added and the page will be re-displayed with the new Hotspot server displayed in a new row in the table.

Review and Submit

Once you have completed all changes you can either click the Review and Submit link in the left navigation or if you are on the Hotspot Servers page you can click next and the Review and Submit page will be displayed.

eduroam Dashboard

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Review and Submit

[Submit eduroam Configuration Changes](#)

Service Locations

Name	Latitude	Longitude	Encryption Type	Tags	Number of Aps
Main Campus	42.23435070000001	-83.7284952	WPA2+WPA	IPv6 Enabled	5
Washington, DC	38.9045344	-77.04198209999998	WPA2+WPA	IPv6 Enabled	12
West Hartford	41.7588182	-72.74351690000003	WPA2+WPA	IPv6 Enabled	2
Denver	39.7447003	-104.9887066	WPA2+WPA	IPv6 Enabled	2
Washington, DC	38.9045344	-77.04198209999998	WPA2+WPA	IPv6 Enabled	12

IdP Realm Radius Servers

Realm	Friendly Name	Host	Auth Port	Acct Port
Internet2.edu	radius2.wash.Internet2.edu	10.2.2.2	1812	1813
Internet2.edu	radius0.Internet2.edu	10.1.1.1	1812	1813
Internet2.edu	my test	123.123.123.125	1812	1813
Internet2.edu	my server 1	123.123.123.126	1812	1813

Relying Party Radius Servers

Friendly Name	Host
my test	123.123.123.125
my server 1	123.123.123.126
radius2.wash.Internet2.edu	10.4.4.4
radius0.Internet2.edu	10.3.3.3

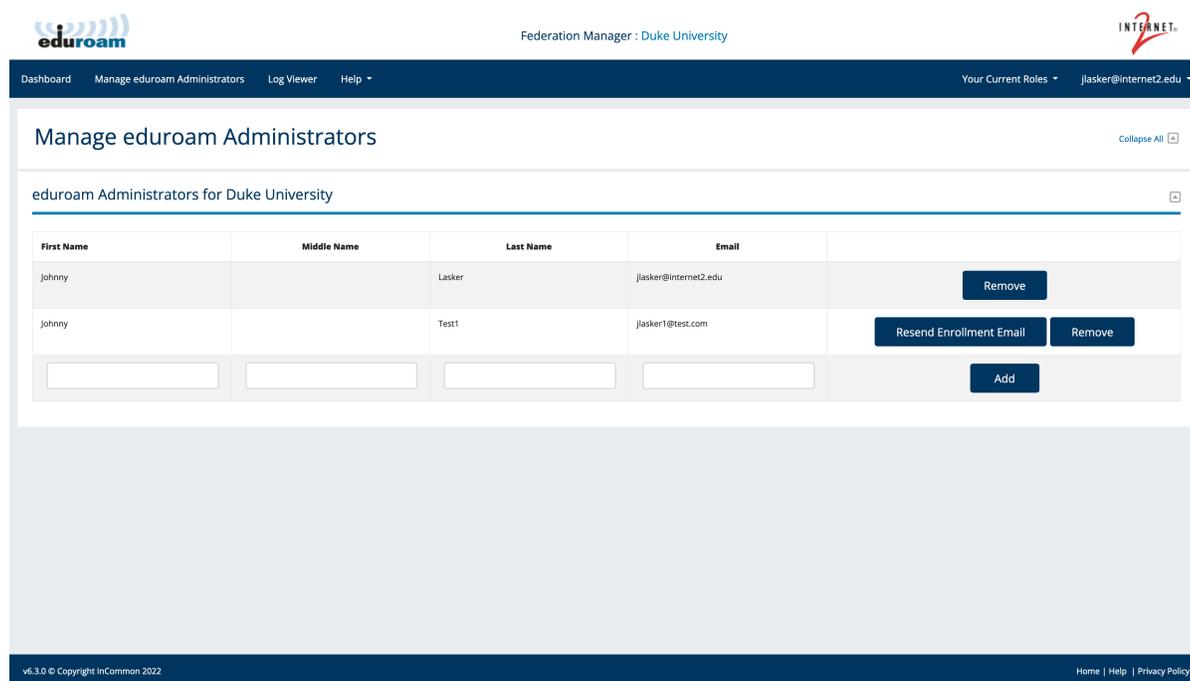
When changes have been made, the status will be Editing and the Submit eduroam Configuration Changes will be displayed and can be clicked. When the Submit eduroam Configuration Changes is clicked, your configuration changes will be submitted for your eduroam configuration. Once your changes are submitted, the status will be changed to Submitted.

For a more detailed description of the statuses, review the Status section in this document.

Adding new eduroam Administrators

The eduroam dashboard now allows for self-service user management of eduroam Administrators. You can access this feature by clicking 'Manage eduroam Administrators' from the top navigation of your organization's dashboard.

 Adding or removing eduroam Administrators sends an email notification to the other active Administrators notifying them of the change.



The screenshot shows the 'Manage eduroam Administrators' interface for Duke University. The page title is 'Manage eduroam Administrators' and the subtitle is 'eduroam Administrators for Duke University'. The interface includes a navigation bar with 'Dashboard', 'Manage eduroam Administrators', 'Log Viewer', and 'Help'. The user is logged in as 'jjasker@internet2.edu'. The main content area displays a table of administrators with the following data:

First Name	Middle Name	Last Name	Email	Actions
Johnny		Lasker	jlasker@internet2.edu	Remove
Johnny		Test1	jlasker1@test.com	Resend Enrollment Email, Remove

Below the table, there are input fields for adding a new administrator and an 'Add' button. The footer of the page indicates 'v6.3.0 © Copyright InCommon 2022' and 'Home | Help | Privacy Policy'.

View

See a list of your organization's roster of active eduroam Administrators.

Add

Add a new/existing user to your roster in the role of eduroam Administrator. If the admin has logged into an Internet2 service before, the admin will be matched on email address. If they have not already enrolled will be invited to enroll via email.

Remove

eduroam Administrators can also be removed from this screen. Removing a user has no effect on any of their other roles outside of the Organization you are editing.

Resend Enrollment Email

In the event that one of your users needs a new IAM enrollment email, this feature allows you to send it to their email address on record. Typically these invites expire after 7 days.

Testing your eduroam deployment

The eFM includes two tools for eduroam testing. One to see if visiting users will be able to authenticate using your eduroam deployment, and another to see if your users will be able to connect to other eduroam locations while roaming.

eduroam Admin IdP Realm Testing

Once an IdP Server and Realm have been submitted, eduroam Administrators are able to test the configuration of a Realm to ensure it is responding to requests via three authentication methods: EAP-PEAP, EAP-TTLS, EAP-TLS.

How to test an eduroam Realm

Prerequisites: Your Realm is approved, your Realm and corresponding IdP server information has been submitted as part of your configuration

1. Log into the [eduroam Federation Manager](#)
2. From the top nav bar, click 'Test Realm(s)' or from the IdP Realms tab, click 'Test Realm' next to the Realm you wish to test
3. Select the Realm to test
4. Select the authentication type to test, either EAP-PEAP, EAP-TTLS, or EAP-TLS.
5. Enter a username/password and and/or certificate for an active eduroam user on the IdP being tested
6. Click 'Test'
7. Results appear in about 10 seconds towards the bottom of the page along with a history of sent requests

eduroam Self Test IdP Realms Catalog All

Realm Testing Close

This page lets you test your organization's configuration by securely passing test credentials to the eduroam infrastructure. This simulates one of your users authenticating via your IdP. Your credentials will not be saved by the Federation Manager.

[More information](#)

Realm:

Authentication Type:

Username *

Password *

* Required information

Sent Requests Close

Realm Name	Authentication Type	Status	Results	Created At	
example.edu	eap_peap	Received	Proxy dev Result OK	2022-08-19T21:45:03.033Z	<input type="button" value="Remove"/>



Your credentials will not be saved by the Federation Manager. Each request will result in four results, representing the two TLRS servers and the two real servers running behind each of the TLRS virtual servers.

Successful Result

A successful result will be in a green box, and have a result of 'OK'. Each result will be late

Error Messages

A result with an error will be in a red box and have one of two error messages.

access-reject

An access-reject reason can result from a mistyped username/password or one that is not valid for the realm and IdP. An access-reject will also be returned if the IdP server's shared secret in eduroam Federation Manager does not match the shared secret configured on the IdP server.

timeout

The IdP server for the chosen realm is currently unreachable. This may be because the server is currently offline, not configured to respond to requests, or the request are currently being blocked by a firewall.

eduroam Admin Hotspot Testing

Overview

The eduroam Federation Manager Hotspot Testing tool allows administrators to generate a shortlived TLS certificate and download installers which can be used to test whether visiting users can authenticate at their location. Essentially you will be creating a temporary user and seeing if that "user" can successfully connect using your eduroam environment.

You can access the testing tool in the eduroam Federation Manager (eFM) by selecting the "Testing" tab at the top of the interface.

The screenshot shows the eduroam Admin Hotspot Testing interface. The top navigation bar includes 'Dashboard', 'Manage eduroam Administrators', 'Log Viewer', 'Testing' (highlighted with a red box and an arrow), and 'Help'. Below the navigation bar, the page title is 'Testing for Internet2'. On the left sidebar, under 'Test IdP Realm(s)', the 'Test eduroam Hotspot' option is highlighted with a red box and an arrow. The main content area is titled 'eduroam Self Test - Hotspot' and contains a 'Hotspot Testing' section with a description and a list of actions: 'Request/Download a certificate', 'Download an installation package', and a link 'Click here for more information on testing'. Below this is a 'Request a Certificate' section with a 'Request Certificate' button.

Note: Administrators of organizations that are both an IdP and SP will see options to "Test IdP Realm(s)" and "Test Relying Party". Administrators of an SP-Only organization will only see an option for "Test Relying Party".

How to use the testing tool

There are three steps in using the Hotspot Testing tool.

1. Generate test user credentials via a test certificate
2. Download appropriate installers
3. Perform testing

Let's walk through each step...

Certificate generation

This part of the tool will provide you with a set of test credentials in the form of a temporary SSL certificate. Clicking the request button begins the process of provisioning your certificate, and will set the request status to "Pending".

Request a Certificate

Only one certificate will be generated and valid at a time; this certificate will expire in 2 hours and is for testing purposes only.

Request Certificate

When the provisioning process is complete you'll be presented with the option to download the certificate. You'll also see the expiration time of your test certificate. **Note that you can only have one certificate issued to your organization at a time. The certificate can also only be used from your configured Hotspot site.**

The certificate is password-protected with the password 'eduroam'

Certificate Request

Received

Expires At:2023-02-22T20:18:26.000Z

Certificate is available and ready for download

Download Certificate

Downloading installers

To assist administrators in testing, we've put together some installers which you can use to set up a wireless profile for your test user. Download the appropriate installer via the link. The installers are generated and maintained using the [eduroam Configuration Assistant Tool](#) and kept up to date by the eduroam US team. Note that downloading the installers is not a requirement for running this test - they're simply provided to make life a little easier for eduroam administrators. You may also need to clear your existing eduroam credentials by telling the device you will use for testing to 'forget' the network before running the appropriate installer.

Installation Packages

Please choose the appropriate installation package for your environment.

[Apple Devices](#)

[Linux](#)

[Windows 10+](#)

Performing the test

The process for testing using a laptop or other wireless device is the same as provisioning a regular user. Ensure that the certificate is saved on the device and run the installer package, or configure a profile manually. Then, the device should connect to the network when selected in the system settings.