



eduroam Configuration Assistant Tool Institutional Admin Guide

Author: Neil Witheridge

Date: 7th November 2017

Version: 0.02

About This Guide

This guide describes how institutional eduroam administrators use the eduroam Configuration Assistant Tool (CAT).

The eduroam AU National Roaming Operator (AARNET) registers an institution with the Configuration Assistant Tool, and invites institutional eduroam administrators via an invitation email to use the CAT.

Most of the eduroam deployment data required by the CAT is read from the Global eduroam Database. This in turn is populated by information in the eduroam AU AdminTool.

Institutional Administrators are responsible for checking data and also entering certificate data.

The end-user device configuration scripts generated may be downloaded and distributed to an institution's users via the institution's eduroam website, or the institutional website can point directly to the CAT user guide and/or CAT website.

It is the institutional eduroam administrator's responsibility to ensure that certificate data is kept up to date.

Contents

Institutional Registration	2
Accessing CAT	2
Logging in via SAML Authentication.....	3
Use of the AAF Virtual Home Organisation.....	5
Confirming Institutional Data.....	5
Example Identity Provider Overview	5
Editing IdP-Wide Settings.....	7
Editing a Configuration Profile.....	8
Adding Institutional RADIUS Server Certificate Information	9
Confirming Script Correctness	9
Providing Configuration Scripts to End Users.....	9
Advising End-Users of Configuration Scripts.....	9
Other References.....	9

Institutional Registration

In order for an institution to be able to use the eduroam Configuration Assistant Tool (CAT), AARNet as eduroam AU National Roaming Operator needs to register the institution with the CAT service, and invite the individual administrators for the institution who will be authorised to access institutional configuration data.

An institutional eduroam administrator wishing to make use of CAT should request access via support@eduroam.edu.au, including the list of administrators that are authorised to access the institution's CAT configuration pages.

An email is sent to the administrator with a link to activate their access.

eduroam CAT: you have been invited to manage an IdP

eduroam CAT Invitation System <monitor@eduroam.org>

Extra line breaks in this message were removed.

Sent: Thu 28/11/2013 9:03 AM

To: Neil Witheridge

Hello,

a eduroam operator has invited you to manage the IdP "AARNet". This invitation is valid for 24 hours from now, i.e. until 28/11/13 23:02:34.

To enlist as an administrator for that IdP, please click on the following link:

[http://cat.eduroam.org/admin/action_enrollment.php?
token=94f0afad51](http://cat.eduroam.org/admin/action_enrollment.php?token=94f0afad51)

If clicking the link doesn't work, you can also go to the eduroam CAT Administrator Interface at

<http://cat.eduroam.org/admin/>

and enter the invitation token

94f0afad51

manually. Please do not reply to this email, it is a send-only address.

We wish you a lot of fun with the eduroam CAT.

Sincerely,

Your friendly folks from eduroam Operations

Once this invitation is acted upon, the invited institutional administrator can use CAT to administer their institution's configuration in CAT.

Accessing CAT

The CAT website is <https://cat.eduroam.org>

Welcome to eduroam CAT
eduroam Configuration Assistant Tool
View this page in [Български](#) [Català](#) [Čeština](#) [Deutsch](#) [Ελληνικό](#) [English\(GB\)](#) [Español](#) [Euskara](#) [Français](#) [Galego](#) [Hrvatski](#) [Italiano](#) [lietuvių](#) [Norsk](#) [Polski](#) [Slovenščina](#) [Srpski](#) [Suomi](#) [Magyar](#) [Português](#) [Slovenčina](#) [Start page](#)

About eduroam
[About eduroam CAT](#)
[Terms of use](#)
[FAQ](#)
[Report a problem](#)
[Become a CAT developer](#)
[eduroam admin: manage your IdP](#)

eduroam installation made easy:
Apple OS X
10.7+
Custom built for your home institution
Digitally signed by the organisation that coordinates eduroam: GÉANT Association

eduroam user:
download your eduroam installer

eduroam CAT - Release CAT-1.1.4 © 2011-15 GÉANT on behalf of the GN3, GN3plus, GN4 consortia and others [Full Copyright and Licenses](#) [Cookie Policy](#).
GÉANT European Commission Communications Networks, Content and Technology

Logging in via SAML Authentication

An initial page advising that you should have received an invitation is displayed.

Welcome to eduroam CAT
eduroam Configuration Assistant Tool
View this page in [Български](#) [Català](#) [Čeština](#) [Deutsch](#) [Ελληνικό](#) [English\(GB\)](#) [Español](#) [Euskara](#) [Français](#) [Galego](#) [Hrvatski](#) [Italiano](#) [lietuvių](#) [Norsk](#) [Polski](#) [Slovenščina](#) [Srpski](#) [Suomi](#) [Magyar](#) [Português](#) [Slovenčina](#) [Start page](#)

eduroam admin: manage your IdP
eduroam admin: manage your IdP
You must have received an invitation from your national eduroam operator before being able to manage your institution. If that is the case, please continue and log in.
[Login](#)

Click on Login to continue to login via SAML.

AARNet operates a SAML proxy in order to provide access to eduroam related services. Currently the proxy is accessible under the “Experimental” tab of the global eduroam SAML discovery service which provides for selection of the SAML identity provider.



You have previously chosen to authenticate at **AARNet Production**
[Login at AARNet Production](#)

- [eduGAIN](#)
- [Social Networks](#)
- [Experimental](#)

Incremental search...

AAF Virtual Home
AAI@EduHr Single Sign-On Service

Following clicking on Experimental, select “AARNet Production” as the identity provider.



You have previously chosen to authenticate at **AARNet Production**
[Login at AARNet Production](#)

eduGAIN Social Networks **Experimental**

Incremental search...

★ AARNet Production
AARNet eduroam AU
iAMRES Web Single Sign-on Portal
Comptes CRU

Supporting Services - Central Authentication Proxy;

Select your institution from the list of available institutions in the AARNet SAML IdP list

Login via your institution HELP EN NL

Select your institution and continue to login to eduroam supporting services

Our Suggestion: JAMES COOK UNIVERSITY AUSTRALIA
(AAF) James Cook University

or search for an institution

aarnet (AAF) AARNET	qansto (AAF) ANSTO	ACU AUSTRALIAN CATHOLIC UNIVERSITY (AAF) Australian Catholic University	AUSTRALIAN INSTITUTE OF MARINE SCIENCE (AAF) Australian Institute of Marine Science
Australian National University	BOND UNIVERSITY	University of Queensland	CHARLES DARWIN UNIVERSITY

Use of the AAF Virtual Home Organisation

If your institution is not a member of the AAF, you will need to have accounts created in the AAF Virtual Home Organisation.

See the document entitled "Setting up a VHO Account" on the eduroam AU webpage.

Confirming Institutional Data

Institutional administrators should confirm the data stored in CAT, read from the Global eduroam Database.

The basic information needed to configure your device 'supplicant' for IEEE 802.1x authentication to the eduroam network is:

SSID (should be "eduroam")

Outer authentication method (PEAP recommended)

Inner authentication method (MSCHAPV2 recommended)

Home RADIUS Server certificate information (for authenticating your home RADIUS server)

This information will be read from the global database, however the administrator should confirm this information via the CAT GUI.

Example Identity Provider Overview

Below is the Identity Provider Overview for AARNet

eduroam Configuration Assistant Tool View this page in English(GB)

Administrator Interface - Identity Provider You are: Neil Witheridge
[Go to your Profile page](#) [Logout](#) [Start page](#)

Identity Provider Overview

IdP-wide settings

General Institution Details

Country: **Australia**
Institution Name default/other languages: **AARNet Pty Ltd**
Institution Name English(GB): **AARNet Pty Ltd**

Global Helpdesk Details

Support: E-Mail default/other languages: **support@eduroam.edu.au**

Media Properties

Global EAP Options

CA Certificate File: **C=BM
O=Quovadis Limited
CN=Quovadis Root CA 2**

Name (CN) of Authentication Server: **wa-knsg-rad1.aarnet.net.au**

Institution Download Area QR Code

<https://cat.eduroam.org/?idp=332>

[Edit IdP-wide settings](#) [Delete IdP](#) [Reset all IdP settings](#)

Check another realm's reachability: [Go!](#)

Check server status of European federations: [Go!](#)

Profiles for this institution

Profile: AARNet eduroam Profile

EAP Types (in order of preference): [Check realm reachability](#)
PEAP-MSCHAPv2 **OK**
TTLS-MSCHAPv2 **OK**

[Installer Fine-Tuning and Download](#)

[Edit](#) [Delete](#)

[Add new profile ...](#)

User Download Link

<https://cat.eduroam.org/?idp=332&src/?lg=855>

User Downloads

Android 4.3	4
Android 4.4 KitKat	13
Android 5.0 Lollipop	66
Android 6.0 Marshmallow	80
Android 7.0 Nougat	43
Apple OS X El Capitan	51
Apple macOS High Sierra	1
Apple OS X Lion	8
Apple OS X Mavericks	7
Apple OS X Mountain Lion	9
Apple macOS Sierra	17
Apple OS X Yosemite	18
Chrome OS	0
EAP config	16
Linux	89
Apple iOS mobile devices (iOS 7 and above)	358
Apple iOS mobile devices (iOS 5 and 6)	5
MS Windows Vista	7
MS Windows 10	65
MS Windows 7	81
MS Windows 8, 8.1	48

The profile for the institution identifies which EAP types are supported. Global EAP Options show AARNet's home IdP RADIUS Server certificate information.

Editing IdP-Wide Settings

The screenshot shows the 'Administrator Interface - Identity Provider' for 'AARNet Pty Ltd'. The page is titled 'Editing IdP information for 'AARNet Pty Ltd'' and is in English (GB). The user is identified as Neil Witheridge. The interface is divided into several sections:

- General Institution Properties:** Country: Australia; Institution Name default/other languages: AARNet Pty Ltd; Institution Name English(GB): AARNet Pty Ltd.
- General Information:** Location: Click to see location 1; Institution Name (default/other languages): AARNet Pty Ltd; Institution Name (EN): AARNet Pty Ltd. Includes an 'Add new option' button.
- Location:** You can enter an additional location here. You can see the already defined locations in the 'General Information' field. Includes an address input field, 'Find address', and 'Locate Me!' buttons. A map shows the location of AARNet Pty Ltd with markers for 'Binary Centre', 'Binary Cafe', 'Ingenuity Electronics Design', and 'Wacom Australia HQ'. Includes latitude and longitude input fields.
- Media Properties:** Includes an 'Add new option' button.
- Helpdesk Details for all users:** Support: E-Mail (default/other languages): support@eduroam.edu.au. Includes an 'Add new option' button.
- EAP details for all users:** CA Certificate File: C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 2. Name (CN) of Authentication Server: wa-kmsg-rad1.aarnet.net.au. Includes an 'Add new option' button.

At the bottom, there are 'Save data' and 'Discard changes' buttons.

Click on “Add new option” under EAP details for all users to add home RADIUS server certificate information.

Editing a Configuration Profile

The profile determines the information in the configuration scripts (e.g. EAP type).

The screenshot shows the 'eduroam Configuration Assistant Tool' Administrator Interface for an Identity Provider. The user is identified as Neil Witheridge. The page is titled 'Edit profile 'AARNet eduroam Profile' ...' and contains several sections for configuring the profile:

- General Institution Details:** Country: Australia; Institution Name (default/other languages): AARNet Pty Ltd; Institution Name (English(GB)): AARNet Pty Ltd.
- Media Properties:** (Empty box)
- Global Helpdesk Details:** Support: E-Mail (default/other languages): support@eduroam.edu.au
- Global EAP Options:** CA Certificate File: C=BM, O=QuoVadis Limited, CN=QuoVadis Root CA 2; Name (CN) of Authentication Server: wa-kmg-rad1.aarnet.net.au
- General Profile properties:**
 - Profile Name and RADIUS realm:** Profile Description: Profile for all AARNet staff; Profile Display Name: AARNet eduroam Profile; Production-Ready: on; Add new option; Realm: aarnet.edu.au
 - Anonymity Support:** Enable Anonymous Outer Identity: anonymous
 - Installer Download Location:** Redirect end users to own web page:
- Supported EAP types:** Supported EAP types for this profile: E. PEAP-MSCHAPv2, E. TTLS-MSCHAPv2. Unsupported EAP types: RST-GTC, EAP-pwd, TLS, TTLS-GTC, TTLS-PAP. A note explains the drag & drop mechanism for marking methods as supported.
- Helpdesk Details for this profile:** The option 'Support: E-Mail' is already defined IDP-wide. Support: E-Mail (default/other languages): neil.witheridge@aarnet.edu.au; Support: Phone (default/other languages): 0425 263 946.
- EAP Details for this profile:** The options 'CA Certificate File' and 'Name (CN) of Authentication Server' are already defined IDP-wide. Name (CN) of Authentication Server: wa-kmg-rad1.aarnet.net.au.
- Media Properties for this profile:** (Empty box)

At the bottom, there are buttons for 'Save data' and 'Discard changes'.

Adding Institutional RADIUS Server Certificate Information

The only information that should be required to be added by institutional administrators is the institution's RADIUS server certificate subject name and the signing CA certificate.

Enter certificate data under

Edit IDP-Wide Settings

-> EAP details for all users

-->Add new option

First select CA Certificate File and browse to CA Public Certificate file, then select Namd (CN) of Authentication Server and add the CN part of the "Subject" field of your RADIUS server certificate.

EAP details for all users

CA Certificate File

CA Certificate File

Name (CN) of Authentication Server

CA Certificate URL

CA Certificate File

Browse... No file selected.

Add new option

Save data Discard changes

C=BM
O=QuoVadis Limited
CN=QuoVadis Root CA 2

wa-knsg-rad1.aarnet.net.au

Click "Save data" once updates are made.

Confirming Script Correctness

It is strongly recommended that institutional IT staff test at least a subset of available scripts (those for platforms of majority use in the institution) to ensure that the configuration data is correct.

Providing Configuration Scripts to End Users

Advising End-Users of Configuration Scripts

Once all information is provided to CAT, advise institutional end-users regarding the use of the scripts. As a minimum, this should include a brief description of the CAT service and a link to the CAT homepage.

Either a CAT link & simple instruction can be provided to users from the institutional eduroam webpage, or scripts for all major mobile device platforms can be downloaded and provided locally.

End-users need to be aware of is the need to correctly identify their **Home Institution when they access the CAT download page**. There is of course scope for confusion whereby users may think they need to download scripts for the visited institution, so please emphasize that the Home institution is the correct script to install.

Other References

<https://community.jisc.ac.uk/library/janet-services-documentation/eduroam-cat-configuration-assistance-tool>

Feedback on this document should be emailed to support@eduroam.edu.au