

eduroam Infrastructure Release Notes

These Release Notes include updates to the eduroam-US RADIUS routing infrastructure. You can find Release Notes for the eduroam Federation Manager portal [here](#).

15.1. Versions

1. V1.9.1

Release Date: January 17, 2024

1.1. Story

- Log Viewer opens to the organization currently viewed in Federation Manager. (Requires Federation Manager change as well.)

1.2. Improvement

- Recent patches and security updates for the Traffic Controller Boxes.

1.3. Bug

- RADIUS Fix for certain state mismatch failures.

2. V1.9.0

Release Date: October 10, 2023

2.1. Story

- Update to Grafana 10 (logviewer)
 - More intuitive data explorer
 - [#8]Name of Organization at top
 - General improvements overall
- Update of log storage system to most recent release

2.2. Improvement

- Security improvements using AWS secrets

2.3. Bug

- [#47]Fix an issue where the proxy would fail on an unreadable configuration file.

3. v1.8.0

3.1. Release Date: June 13, 2023

3.2. Story

- Allow listing (New Feature)
 - Traffic is filtered to only allow traffic from configured subscribers to reach the RADIUS proxies
 - This reduces load on the traffic controller and the proxies
 - Traffic controller has less traffic to monitor for rate limiting
 - Proxies do not have to answer invalid requests
- Rate Limit Log Monitoring
 - New tools to monitor incidents of Rate Limiting more closely in order to better diagnose issues
- Enhanced deployment tools
 - Allow for faster releases with less downtime
- IdP Testing Fixes
 - Improved error handling and responses
- Security enhancements
- Minor bug fixes

- 1. V1.9.1
- 2. V1.9.0
- 3. v1.8.0
- 4. v1.7.1
- 5. v1.7.0
- 6. v1.6.0
- 7. v1.5.0
- 8. v1.4.0
- 9. v1.3.0
- 10. v1.2.0
- 11. v1.1.2
- 12. v1.1.1
- 13. v1.1.0
- 14. v1.0.1
- 15. v1.0.0

4. v1.7.1

4.1. Release Date: April 6, 2023

4.2. Improvement

- Implemented certificate revocation for certificates used in RP testing
- For the Operator-Name attribute to known valid values, rather than accepting values supplied by the RP

5. v1.7.0

5.1. Release Date: March 13, 2023

5.2. Story

- RP testing
 - Add an IdP for testing your local eduroam WiFi network
 - Generates short-lived certificates to authenticate to that RP
 - Supply CAT-generated installers for that IdP and certificate

6. v1.6.0

6.1. Release Date: October 18, 2022

6.2. Story

- Internal cost reductions
 - Reduced the capacity of MQ servers
 - Removed unused DB instances

7. v1.5.0

7.1. Release Date: October 6, 2022

7.2. Story

- Self-Healing Containers Feature
 - Containers in AWS now periodically re-register themselves with the Traffic Controller
 - Prevents containers from being 'forgotten' in the event of network issues

8. v1.4.0

8.1. Release Date: August 16, 2022

8.2. Story

- IdP Testing infrastructure
 - Install the infrastructure that will support an FM feature allowing eduroam administrators to test whether their IdP responds to traffic on the federation.
 - Install an AWS Lambda function to perform the IdP testing
 - Install MQ configuration for FM to send IdP testing requests to the eduroam infrastructure, and for the eduroam infrastructure to send responses
 - Update the RADIUS configuration to accept authentication requests from the IdP Testing lambda function
- Update to the latest released FreeRADIUS version, 3.2.0

9. v1.3.0

9.1. Release Date: August 5 & August 8, 2022

9.2. Story

- Load balancing
 - Change the network routing of multiple Docker-ized containers behind each TLRS service from an active/standby configuration to an active/active load balanced configuration.
- Ubuntu system updates applied to TC routers

10. v1.2.0

10.1. Story

- Rate Limit Feature Update
 - Limits incoming traffic to prevent the national-level proxies from being overloaded with spurious requests
- [\[#30\]](#) Code Cleanup
- Ubuntu system updates applied to TC routers and VPN endpoints

11. v1.1.2

UPDATE: 4/1/2022 This release has been rolled back. Certain issues will be cherry-picked and released at a future date.

11.1. Bug

- [\[#23\]](#) Access-rejects not providing a failure reason
- [\[#26\]](#) Reject requests with invalid punctuation
- [\[#24\]](#) RADIUS server unexpectedly restarts under high load
- [\[#25\]](#) Remove nonresponsive upstream servers

12. v1.1.1

12.1. Improvement

- Improve log line identification for easier processing by a log viewer

13. v1.1.0

13.1. Bug

- [\[IFMC-2112\]](#) - Problem escaping special characters in RADIUS secrets

13.2. Story

- Enhancements to service resilience in the event of an AWS Region or Data Center outage
 - [\[IFMC-2221\]](#) - Top-Level Server redundancy/failover
 - [\[IFMC-2222\]](#) - Create new TLRS' servers
 - [\[IFMC-2223\]](#) - Failover scripts/tooling for TC boxes
- Logging Foundation
 - [\[IFMC-2040\]](#) - Log appropriate info on radius servers
 - [\[IFMC-2241\]](#) - Collect log data from radius servers on FluentD
 - [\[IFMC-2227\]](#) - FTICKs entries in logs
- Update operator-name behavior to write attribute if not present
 - [\[IFMC-2224\]](#) - Operator-Name and Country-Code Insertion
 - [\[IFMC-2225\]](#) - Insert operator-name attribute if not present
 - [\[IFMC-2226\]](#) - Country-code insertion

13.3. Improvement

14. v1.0.1

14.1. Bug

- [\[IFMC-2015\]](#) - Allow use of sub-realm
- [\[IFMC-2012\]](#) - Escape additional special characters in RADIUS secrets

14.2. Story

- [\[IFMC-2078\]](#) - Enable IPv6 routing

14.3. Improvement

- [\[IFMC-2125\]](#) - Flush connection tracking after migration

15. v1.0.0

- Initial Release