

Operator, please! eduroam Switchboard

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Keywords: eduroam Operator Automation Monitoring Container

Area: Creating intelligent complexity (Responsible sustainability)

eduroam Switchboard is an easy-to-use web application for the management of eduroam federations by national Roaming Operators (NROs) as well as IdP/SP, realms and clients by institutional administrators.

The information entered is propagated dynamically to the eduroam database, where it is used for populating the map of available roaming locations and to collect statistics about and monitor the activity within the federation.

The above-mentioned features are not unique to Switchboard, but are also provided by already existing alternatives, DjNRO being one of them.

Where eduroam Switchboard stands out is when it comes to the automation of process workflow as it allows to

- * Auto-generate secure shared secrets
- * Download customized eduroam-optimized FreeRADIUS configuration files for IdP, SP and FLR that contain up-to-date entries for all connected clients and proxies
- * Send out notification to upstream RADIUS proxies about new realm exceptions
- * Install new configuration files on all involved RADIUS instances in case of changes to any one of them
- * Restart the RADIUS Docker containers in order to pick up the new configuration files
- * Monitor the configured IdPs and FLRs regularly and alert their operators in case it finds problems

eduroam Switchboard is currently being run in a beta phase on the African continent with pilot partners from Ghana, Malawi, Tanzania and Zambia with plans to launch it across the continent in Q3/2018.