

Simplified NIF for GN4 Input

Purpose: This NIF form is to be used for the submission of New Ideas suggested for inclusion in the GN4 Phase1 and beyond proposals. Budget estimates, information about objectives, impact, benefits, etc. as well as scope must all be supplied.

Submit to: pmo@GÉANT.net by January 31st, 2014 with the subject label starting: GN4Input

Overview

Project Name: eduroam monitoring and reporting for NROs

Project Proposer: Harri Kuusisto, Juha Hopia, Tomi Salmi, Jari Miettinen - Funet

Project Type: GN4 Phase1 or longer term

GN4 Phase Y1 and Phase Y2

Duration proposed

2 years
April 2015 – March 2017

Deliverables proposed (If any can be defined at this stage)

D1: Plan of implementing collector and visualizer
D2: Workshop

Milestones proposed (If any can be defined at this stage)

Q3 2015: draft of implementation plan
Q4 2015: final implementation plan
Q1 2016: piloting
Q3 2016: workshop
Q4 2016: final report

Estimated Project Costs (best effort!)

Manpower in person-months also identifying specific expertise required

Y1: 24
Y2: 24

Hardware and equipment:

Y1: € 10 000
Y2: € 0

Other costs

Travel and workshops:
Y1: € 20 000
Y2: € 20 000

1 Background and Reasoning

Provide background information and the context of the project. Explain the reason for the project. What do you want to be different? What do you hope to improve? Why is the project needed? This should be the reason for the project, not the solution.

The current way collecting data from eduroam locations and usage at NREN customer organization level is lacking automatization and accuracy. Manual input of data is often outdated and/or missing. NREN customer organizations are willing to get more information and statistics from eduroam usage of their organization's site.

eduroam is well-defined, robust, secure, state of the art and de facto way to do wireless networking at academic world. Getting more accurate data from eduroam usage supports network planning, development and problem solving. E.g. over-loaded eduroam access point can be identified in the campuses and corrective measures can be applied.

2 Objectives, Impact and Benefits

Provide one or more bullet points to briefly describe the primary objective(s) of the project in terms of the desired outcomes. This should be expressed in the form: 'To ensure...', 'To implement...', 'To service...', 'To improve...', 'To innovate...', 'To optimize...', 'To save...', etc. For each objective mention the benefits to identified stakeholders (e.g. end-users, NRENs, large international research projects, industrial research partners, high level education, etc.) should be mentioned. A description of the expected overall impact must also be provided.

- To implement the way to collect data from eduroam usage for monitoring and reporting needs in NRENs
- To help locating and solving possible problems in eduroam at NREN customer organizations
- To harmonize the NREN eduroam reporting at European level
- To automatize the collecting of plotting data of eduroam locations at NREN customer organizations
- To increase more reliability to eduroam reporting data from NREN customer organizations

3 Scope

Describe the areas expected to be covered or impacted by the proposed activity, such as organisational areas, systems, processes, resources.. i.e. what is 'in scope'. This is not a list of what will be done but identifying the services, areas or what, will be affected.

Also please enumerate specific items which although they could perhaps be related are intentionally not addressed by your proposal ("Out of Scope").

1. In Scope

- Technical components of eduroam: RADIUS-server and WLAN controller
- New components for collecting and visualizing eduroam data ("Collector" and "Visualizer")

2. Out of Scope

- API for Visualizer

4 General Information

Outline any potential issues, risks, dependencies, assumptions, constraints and limitations or any other points that may be useful to help assess the proposal.

- The project group for this task is planned to include from 4 to 6 NRENs from all around the Europe
- Possible co-operation partnerships with TERENA task forces (TF-MNM etc.) and other Geant working groups at mobile and best practises areas
- Potential Risk: The current RADIUS-hierarchy does not some how support automatization of collecting data
- The need of first year Kick-Off meeting and international workshops
- The dissemination of the results at NORDUnet networking conference and TERENA networking conference