Task 1: Campus and Federation

This Task delivers developments aimed at federations and campus identity providers, based on the existing federated identity and eduGAIN models and technologies.

It aims to make federated identity on a pan-European scale easier for federations and campus IdPs to adopt, more scalable to cope with significant growth of entities via eduGAIN, and more secure in complex operating environments.

Key objectives

The key objectives of Task 1 are:

T1.1 eduGAIN policy review

- In December 2015, the European Parliament and Council reached agreement on data protection reform [DPREFORM]. This will require legal and federation consultation and analysis of eduGAIN's policies focused on attribute release (Code of Conduct, EU and international variants, Research and Scholarship Entity Categories, recommendations on User consent), in particular focusing on service implications for eduGAIN members.

T1.2 eduGAIN metadata management and attribute release management

- Develop, pilot and enhance methods for facilitating attribute release and encouraging take-up by federations, including GÉANT Code of Conduct development and support for R&S within eduGAIN.
- Develop and enhance methods for improving metadata management and interoperability, e.g. adoption and customisation of FedLab results.
- Develop and enhance methods to ensure quality metadata exchange, e.g. implementation of best practice on metadata streams for eduGAIN.

T1.3 Development of supporting services for campus identity providers

- Based on findings from AARC, TIER (Internet2) and NREN developments, develop a campus IdP extension to the FaaS service for sites and regions who currently do not have the ability to support or offer a cloud IdP-type of service to campuses.

T1.4 eduGAIN incident management development

- Based on findings from AARC and REFEDS, pilot and implement the recommendations on the Security Incident Response Trust Framework for Federated Identity (SIRTFI) in the eduGAIN operational context.

Deliverables and Milestones:

| GREY | Deliverable D9.1: Market Analysis for Supporting Services for Campus Identity Providers, M8 |

| GREY | Milestone M9.2: Assessment of DP Legislation Implications, M8, White Paper |

| GREY | Milestone M9.4: SIRTFI Pilot Report, M20, Report |

Minutes of periodic Task calls

Task1 Trello Board

https://trello.com/b/bNmCfbZK/geant-campus-idp-platform

Availability of people during the summer 2018 break

https://evento.renater.fr/survey/availability-of-people-in-summer-2018-summer-holidays-please-fill-in-the-weeks-yes-you-will-be-at-work-wid35tjv

Relevant internal / collaborations documents

- Campus IdP platform architecture
- Campus IdP platform workplan May to October 2017
- Workplan Measuerement and Statistics
- SIRTFI strategy planning doc (F2F July 12-13, 2017 - Zurich)

Cloud-based IdP services Catalogue

https://campus-idp-test.geant.org/

Face To Face Meetings (notes, agenda, slides)

- Face To Face- Rome-May-4-5-2017
- Face To Face-Budapest-October-2-2017
- Face To Face-Paris-March 27-28-2018
- FaceToFace-Rome-October-4-5-2018

SWAMID REFEDS SIRTFI and REFEDS R&S Attribute Release Check

- https://sirtfi-check.swamid.se/
- Documented at Shibboleth SP attribute checker example - Require REFEDS SIRTFI and REFEDS Research and Scholarship

eduGAIN attribute release check

- https://release-check.edugain.org/

Measurement and Statistics wiki

Measurement & Statistics

Minutes of periodic task calls

- September 26, 2016
- October 10, 2016
- November 7, 2016 (T1.3)
- November 21, 2016 (T1.3)
- February 3, 2017
- February 9, 2017 (Architecture Team)
- February 13, 2017
- February 27, 2017
- March 27, 2017
- April 10, 2017
- April 24, 2017
- May 22, 2017
- July 3, 2017
- August 21, 2017
- September 6, 2017
- September 18,2017
- November 6, 2017
- November 27, 2017
- December 18, 2017
- January 15, 2018
- January 29, 2018
- February 12, 2018
- March 5, 2018
- April 30, 2018
- May 14, 2018

Moving towards production: GEANT Software Management Tools

- GEANT software pages: software.geant.net
- GEANT Bitbucket git code repository

- Bamboo Continuous Integration system
- JIRA Bug / Issue tracker
- GEANT Artifactor Maven Artifacts Repository

Useful Links and References

- https://release-check.edugain.org/   eduGAIN attribute release check tool
- https://goo.gl/m75yFY   Results of the Initial Survey for the NRENs

Presentations

- https://goo.gl/prkwTg   TNC 2018 Throndheim   June 11, 2018 (Joint with Internert2)   -   https://tnc18.geant.org/core/presentation/142
- https://goo.gl/Sr8cjQ   TechEx 2017 SFO Advance Camp - October 19, 2017
- https://goo.gl/5qBDTi   JRA3 All Hands - Zurich December 12-13, 2016

Final Products Presentations and Documentation

Product	Goals	Expected users	Notes on final status of the product	References (URLs) and Presentations / Videos / Documents	Subsequent related activity /task and persons involved in GN4-3	Git Repository

Campus IdP Platform	Enable FedOps and IdP admin to spawn and manage their IdPs - Accessed as an eduGAIN SP. Hosted on Openstack or VMware.	FedOps and HOs IdP admins	Use Case "Create IdP" implemented:
			
			- Request and approve new IdP via web client
			- Store configuration data in database
			- Convert configuration data and trigger Ansible
			- Deploy new IdM on existing VM
				Demo Video: CampusIDP Platform DEMO (FULL Short Version).mp4
				
				Documentation: Campus IdP Platform Architecture
					- Use Case 1: Create IdP
					  - Enable deployment on different target environments
					- Use Case 2: Manage IdP
					  - Edit IdP configuration
					  - Delete IdP
					- Use Case 3: Manage Federation
					  - Lifecycle management of IdP (approve, remove)
					  - Metadata management
						Web Client: https://github.com/GEANT/ClientCampusIdP
						
						API: https://github.com/GEANT/APICampusIdP

Measurement and Statistics National and eduGAIN platform	Gather Fticks from IdPs belonging to national federatoins and eduGAIN, enabling national ID Federatoins to view and manage their forwarding to a central eduGAIN collector node	FedOps and eduGAIN admins		https://tnc18.geant.org/core/poster/41		

Docker dpeloyment of Campus IdP	Enable Home organization to deploy a simple, basic Shib IdP on Docker	HOs IdP admins			
Ansible toolkit for deployment of Shibboleth IdP	Enable HOs and federatoin to install and configure IdP and related tools using Ansible.	HO IdP admins and FedOps		1. HOWTO Install an Ansible IdP on Localhost: https://docs.google.com/document/d/1u8ltqHiF_rq8CI1IfShqa47HO_ytdmBEz-2e1UPQI90/edit?usp=sharing 2. HOWTO use Ansible Toolkit in a centralized way: https://docs.google.com/document/d/14T6RCs6azT64XUtXr5ydjXF8rJz17nTFNq5feUyhU20/edit?usp=sharing	Ansible playbook and inventories needed to install and configure a Shibboleth IdP: 1. https://github.com/GEANT/ansible-shibboleth 2. https://github.com/GEANT/ansible-shibboleth-inventories Ansible playbook and inventories needed to install and configure some monitoring tools: 1. https://github.com/GEANT/ansible-monitoring 2. https://github.com/GEANT/ansible-monitoring-inventories Ansible playbook and inventories needed to create VMs upon OpenStack architecture: 1. https://github.com/GEANT/ansible-openstack 2. https://github.com/GEANT/ansible-openstack-inventories
SIRTFI email contacts verification tool	Deploy a web based tool accessible as eduGAIN SP capable of getting security email contacts for IDPs and capable of sending verification email to admins to verify the effectiveness of the addresses and their responsiveness.	eduGAIN support FedOps SIRTFI			