Above-the-net Services in GN5-1

8th March 2023
SIG-CISS meeting

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www.geant.org
GÉANT Cloud Collaboration Evolution
Information gathered from NRENs and institutions by surveys and interviews

- GÉANT Cloud Survey for NRENs and Institutions 2021
- NREN Cloud Consultations 2021 – 1:1 in-depth interviews
- NREN CTO Workshops 2021, 2022

Some ideas from the CTO workshop in November 2022

- Needs of institutions and their users
  - privacy, security, sovereignty, functions & interconnectivity, open science & open data, shift towards SaaS
  - Building capabilities of institutions and NRENs
  - Problems to be solved (complexity, research is time sensitive, gaps, saving plans, etc)

NRENs & institutions

- bringing user needs, services and processes together
- tiered competence centres? (how to choose & use services, outsource the competence)
- understanding university and research processes (digital workflows in research). What are the needs?
WP4 Above-the-net-Services

Next 2 years

- Maintain current service portfolio and support NREN adoption
- Next public Cloud tender, to succeed OCRE
- Develop strategic NREN-community approach on collaboration & joint development

Early tests for what works

- Continue piloting new ideas and offers (devops)
- Development on community-based offerings

Service Sustainability

- Pilot spin-out of service (eduMEET) into independent OpenSource
- Don’t develop services just because we, NRENs, can and like to
WP4 Objectives

T1: NREN-facing delivery chain

T2: Supplier-facing delivery chain

T3: Re-procure the flagship IaaS+ framework

T4: Community-backed strategy proposal
  - community/commercial services

T5: Incubator pilot
  - Service spin-out pilot (eduMEET)
Objectives:
• Progress on community enablement for cloud adoption
• Continuity of IaaS+ Frameworks value to R&E
• Maintain reliable contracts and finances for NRENs
• Solidify strategic bargaining position with hyperscalers
• Progress on collective strategic planning

Actions:
• Be a hub for relevant information and competencies
• Innovate Framework services delivery chain
• Prepare, execute, roll-out next IaaS+ tender
• Intensify Cloud Strategy process with actionable results

Key figures:
• 2020 IaaS+ Framework
  ○ 40 NRENs eligible
  ○ 25 countries consuming
  ○ 44 Suppliers
  ○ 474 contracts issued - 20x more than in 2016
  ○ 482 +5 services
  ○ 800 inst. using by end of 2022
  ○ €141m consumption, since 2016 expected this year
  ○ ~10% est. savings for R&E
Objectives:
- Innovation on service features, concepts, operational models
- Rapid experimentation and learning in low-risk environment
- Learning on service sustainability outside project funding
- Preserve the value and realise the potential in eduMEET

Actions:
- Incubator for small-scale concept, development work
- Develop a process for services “spin-out” from project
- Apply and evaluate “spin-out” for use-case eduMEET

Key figures:
- Incubator to work in 4-month “sprints”
- 6 sprints in total expected
- eduMEET
  - 14,700 monthly users in NRENs
  - 77 known instances
  - 41 organisations
  - 21 countries
## WP4 Work Package and Task Leadership

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<td>Maria Ristikok (EENet) and Jakob Tendel (DFN)</td>
<td>Eva Nestorovska MARnet</td>
<td>Garvan McFeeley HEAnet</td>
<td>Monique Pellinkhof David Heyns GÉANT</td>
<td>Jan Meijer – NORDUnet (Sikt)</td>
<td>Bartłomiej Idzikowski (PSNC)</td>
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**Partners**

- DFN
- SURF
- NORDUnet
- FCCN
- OREN
- ULAKBİM
- GSNET
- HEAnet
- EENet
- CARNET
- MAP-Net
- KIFÜ
- Inter-University Computing Center
- Consortium GARR
- Asnet
- RASH
GÉANT Cloud Services Collaboration

Work Package Leader + T4 Co-Lead

Global Clouds
- EUNIS
- SIGs, TFs
- e-infras & projects

Maria Ristkok
Estonian Ministry of Education and Research

T1: Service Delivery: Platform and Business Desk
- Suppliers
  - OCRE & EOSC
  - TF-MSP

Garvan McFeeley
HEAnet

T2: Service Development: Videoconferencing Infrastructure
- SIG-Multimedia
  - TF-EDU
  - TNC
  - Moodle
  - PosEmo

Bartłomiej Idzikowski
PSNC

T3: Service Development: Cloud Offerings
- ELIXIR & projects
  - SIG-CISS
  - TF eHealth
  - Universities
  - Companies

Dan Still
CSC

T4: Service Adoption Support
- NREN CSDMs
- Universities CSDMs
- Suppliers
  - SIG-Marcomms
  - GLAD

Eva Nestorovska
MARnet
WP dependencies

WP1 (management, trainings / GLAD)
WP2 (comms, stakeholders)
WP3 (Partner Relations, compendium, surveys, engagement)
WP5 (T&I integration, incubator workflows)
WP8 (cloud security trainings)
WP9 (Open-source software quality, providers peerings)

SIGs (CISS, MSP, Multimedia, Marcomms, ...)
TFs (EDU, RED, ...)
Project landscape (EOSC, GAIA-X, HPC, ...)
Outside partners (Suppliers, intl. NRENs, EUNIS, ...)
LOOKING AHEAD - 2023-2024: SERVICE OFFERINGS AND ACTIVITIES

Activities

Strategic Forums
Consulting with NRENs and other stakeholders
Global Collaboration

Managing Frameworks & services
Piloting new ideas and activities in the GÉANT Cloud Team Incubator

Strategic approach
Maintenance & Development

Conclusions
Overall Focus and Activities Fixed by Deadlines in 2023

Focus on
- Re-procurement of expiring IaaS Framework contracts
- New business models & sustainable funding structures for community-based services

April – legal-administrative framework for eduMEET spin-out PoC established

September – procurement strategy for IaaS+

December – GÉANT Community Strategy for Above the Net Services

November – IaaS procurement published. eduMEET spin-out development report
Further community plan

Requirements gathering process for 2024 IaaS+ tender

- Cloud Manager community
- 2023 GÉANT Cloud Survey for NRENs and Institutions

NREN needs gathering beyond the immediate tender re-procurement:

- WP4 Task 4 Cloud Strategy group
- Next Cloud CTO workshop (Q4 2023)
- Next project (GN5-2) planning phase, opens Q3-Q4 2023
- GÉANT Partner Relations
Thank you