

Real-time communication services infrastructure support

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GN2020 GN4-2 JRA4 T5

technical infrastructure support for real-time
communication services

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JRA4-T5 develops an underlying technical infrastructure, which:

- enables and interconnects a pan-European Web-RTC based set of real time communication and multimedia services and
- links these to traditional conferencing systems and infrastructures.

This includes:

- service verification
- unified dialing
- addressing
- directory harmonisation
- monitoring

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Task 5 closely interacts with Task 4, to create a technical infrastructure which reflects and supports the organisational structure and services established in Task 4.

Task 5 consists of people with a deep technical understanding of real-time communication protocols, applications and back-end supporting infrastructures to interconnect communication services.



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8 NRENs directly involved:



Cooperation:



Latin American Advanced Networks Cooperation
Argentina, Brazil, Colombia, Costa Rica, Chile, Ecuador, El Salvador, Guatemala, Mexico, Uruguay and Venezuela

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Team:

- Saša Davidović - CARNet
- Tobias Appel - DFN (BADW-LRZ)
- Luca De Cicco - GARR (Politecnico de Bari)
- Mihály Mészáros - NIIFI
- Stefan Otto - NORDUnet (UNINETT)
- Lino Valdivia - RedIRIS (i2CAT)
- Laurent Gyde - RENATER
- Maciej Stróżyk - PSNC
- Sergiusz Zieliński - PSNC
- Bartłomiej Idzikowski - PSNC

Manpower:

29 MMs per full project year

Volunteers:

- Piotr Skąlecki - PSNC
- Dariusz Janny - PSNC

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Key objectives:

- to provide the technical aspects of a infrastructure for interconnecting a pan-European Web-RTC based set of real time communication and multimedia services
- to link these Web-RTC based set of services to traditional conferencing systems and infrastructures
- follow appropriate GN4-1 SA8T2 recommendations (roadmap report)

Provide a complete solution to end user

- make one or more easy to use WebRTC desktop videoconferencing service available to all European R&E users through the GÉANT Cloud Catalogue
- closely track market developments for the WebRTC data channel as it has potential for interesting R&E use cases
- establish a GÉANT STUN/TURN pilot service to support WebRTC technology early adoption

Provide functional blocks for integrating by end users

- continue to investigate the concept of, and possibilities for, a GÉANT Media API Service to facilitate low-cost, R&E domain-specific, contextual communication
- adding a WebRTC-to-SIP and WebRTC-to-H323 gateway to the GÉANT cloud catalogue
- investigate the feasibility of establishing a GÉANT service that may act as a hub for key Unified Communication data

Other potential scope in interest

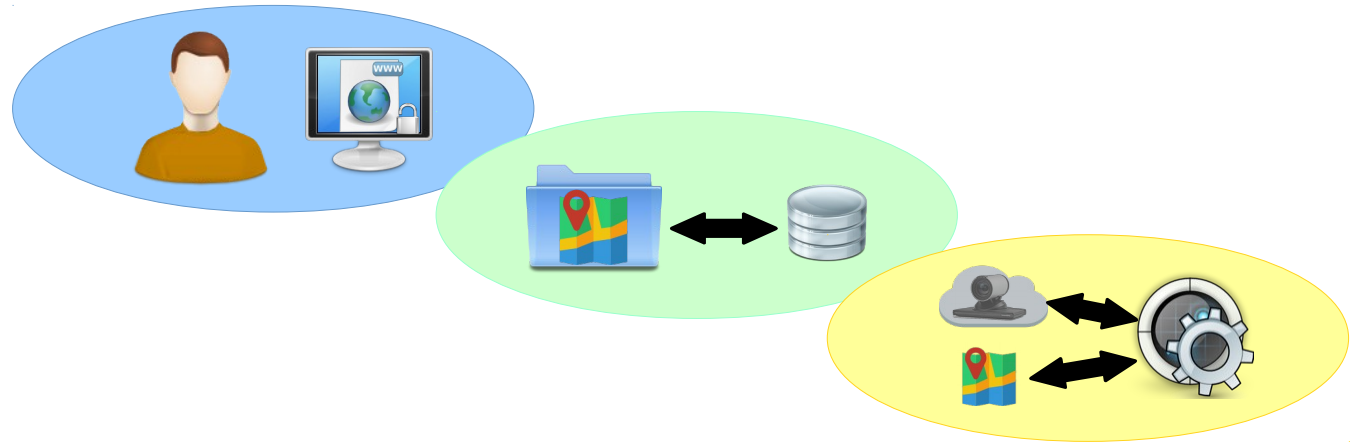
- integration of directories
- including personal WebRTC rooms to Directory
 - room approach vs. user approach
- monitoring of WebRTC core infrastructure
- testing personal rooms
- testing users browsers
- testing / providing gateways interoperability
- ...

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Potential functional areas

to **assist research and educational societies in scope of WebRTC**

- testing
- directory
- monitoring



Thank you!

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