



PRISTINE



PRISTINE is designing and implementing the internals of the RINA clean-slate architecture

Allow Programmable functions for:

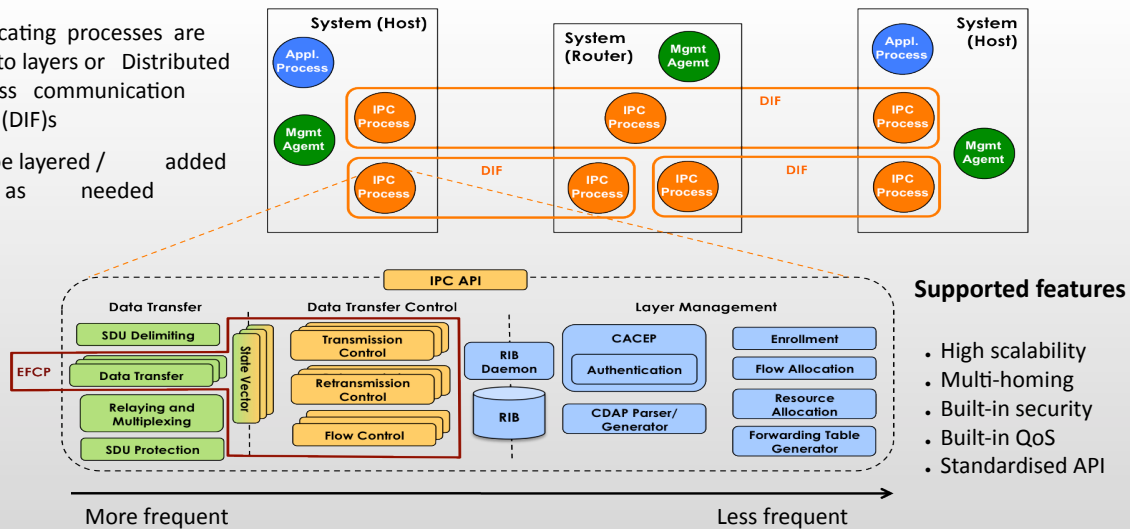
- Supporting congestion control
- Providing Protection / Resilience
- Efficient Routing (e.g. Topological)
- Unified Multi-layer management

“The present Internet architecture is 40 years old. Even though it may be claimed that its age is proving its validity, the writing on the wall is obsolescence”

– Louis Pouzin, 2013

Approach

- Communicating processes are grouped into layers or Distributed Inter process communication Facilities (DIF)s
- DIFs can be layered / added recursively, as needed



Supported features

- High scalability
- Multi-homing
- Built-in security
- Built-in QoS
- Standardised API

Expected Impact

Use RINA to develop practical, demonstrable and commercially exploitable solutions to address existing networking limitations

Targeted Use-cases

- Data center Networking
- Network Service Provider
- Distributed cloud

Key Outcomes

- SDK for expert customisation
- Multi-layer DIF Management system
- Advanced policies for DIFs
- RINA Network simulator

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In collaboration with:



NETWORK TECHNOLOGIES PRISTINE

<http://www.ict-pristine.eu>

PROJECT DATA

- Start Date: 01-2014
- Duration: 30M
- EU-Funding: 3.3ME



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