



PMP Service

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PMP service manager / WP6T3

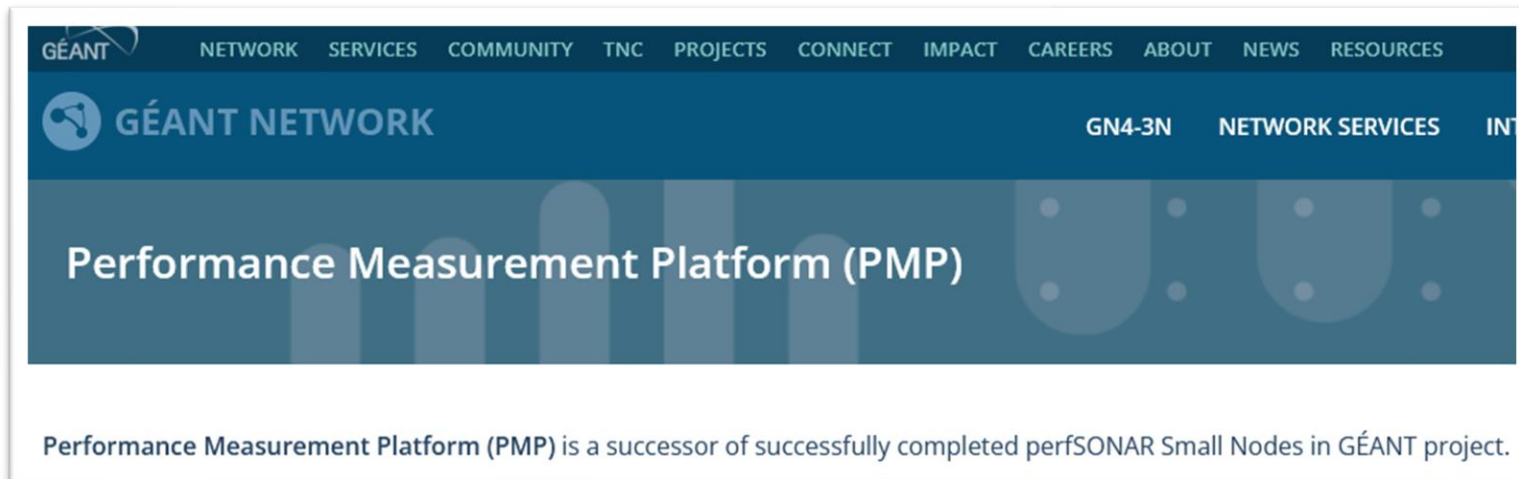
STF27, Zurich CH, 19-20 October 2022

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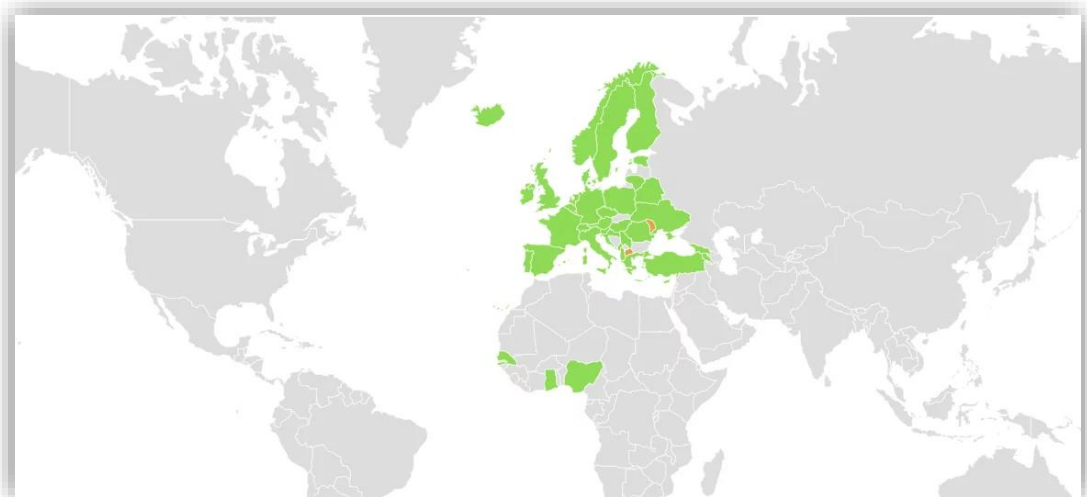
Definition

- The platform consisting of:
 - Low-cost hardware nodes with pre-installed perfSONAR software
 - Central components including a central Measurement Archive (MA) and a Dashboard



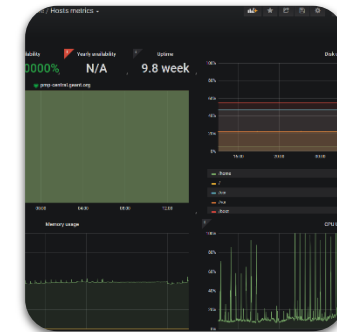
Users

- Nodes are deployed and hosted in GÉANT collaborating organisations in Europe and Africa
- Anyone accessing Dashboard, individuals making tests as with any other perfSONAR node
- Priviledged users (hosting organizations) for setting regular tests and having access to CLI

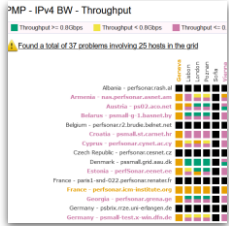


How does it work?

- Coupled with GÉANT MPs to create a partial mesh for regular testing
 - Throughput, latency, loss, RTT, traceroute, HTTP request time, DNS query time
- Central components operated and maintained by the GÉANT project
 - Central MA, Maddash, Grafana-based infrastructure monitoring, automation with Ansible, support

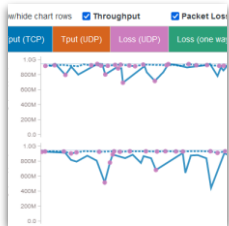
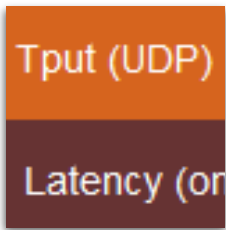


Added value



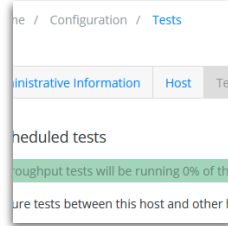
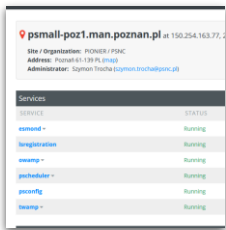
Regular testing between NRENs and GÉANT

Use multiple network metrics



Access historical measurement results

Configure your own local tests in GUI



Play and learn

Run CLI tests from/to nodes

```
Submitting task...  
Task URL:  
https://perfsonar.eenet.ee/pscheduler/  
Running with tool 'ping'  
Submitting task run...  
Next scheduled run:  
https://perfsonar.eenet.ee/pscheduler/  
tools/4e3274/runs/0474130d-8418-47b2-4  
starts 2022-05-23T12:11:55Z (-0 seconds)  
ends 2022-05-23T12:12:02Z (-8 seconds)  
Waiting for result...  
ima.geant.org (2001:798:3::132)  
ima.geant.org (2001:798:3::132)  
ima.geant.org (2001:798:3::132)  
ima.geant.org (2001:798:3::132)  
ima.geant.org (2001:798:3::132)
```



Extend with more nodes

Implement your ideas



Service onboarding

Public access

- Maddash for historical graphs
 - <https://pmp-central.geant.org/maddash-webui/>
- Endpoint for a typical perfSONAR ad-hoc tests
- Endpoint for a regular test dst / src

Node deployment

- Part of the regular mesh (1st or 2nd tier)
- Administrative access to local GUI and CLI
 - Own tests configuration
- Deployment and operation support

Thank you

Any questions?

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