eduPERT history
– GN2 and GN3plus

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eduPERT

- PERT = Performance Enhancement Response Team

- "eduPERT is the GÉANT service for the "network of PERTs"" (from the GN3plus eduPERT portal)

- Main purpose - to troubleshoot performance issues on the GÉANT backbone
eduPERT in GÉANT 2 Project time

• Started as a part of "End to End Quality of Service" Service Activity (SA3) lead by Toby Rodwell, GÉANT
• A centralised eduPERT service established to work on multi-domain performance problems
• NREN representatives (members of SA3) working as Case managers on reported performance problems in weekly shifts
• Lowlights:
  • low response from organisations "on the path"
  • long-lasting cases
  • cases resolved by themselves rather than through eduPERT shifts
eduPERT in GÉANT 3 Project time

• Disclaimer:
  • *Some data on this slide might be incorrect or incomplete due to the absence of the SPoT*

• The interest in eduPERT operational service declined:
  • lower number of reported cases
  • less contacts with users recorded

• Increased range of activities:
  • Portal
  • Mailing list
  • Knowledge database
  • Certification
eduPERT in GÉANT3plus Project

• Activities described in the Deliverable document:
  • [https://geant3plus.archive.geant.net/Resources/Deliverables/Documents/D8-1_DS4-4-1_eduPERT-Report.pdf](https://geant3plus.archive.geant.net/Resources/Deliverables/Documents/D8-1_DS4-4-1_eduPERT-Report.pdf)

• eduPERT portal
  • [https://geant3plus.archive.geant.net/Services/NetworkPerformanceService/Pages/eduPERT.aspx](https://geant3plus.archive.geant.net/Services/NetworkPerformanceService/Pages/eduPERT.aspx)

• Mailing list with more than 100 registered participants
  • pert-discuss@geant.net

• Knowledge database organised in five categories:
  • Network (network metrics, protocols and tuning).
  • End host (application protocols, host tuning, virtualisation).
  • Tools (PERT tools, NREN tools and statistics and network emulation).
  • General knowledge (user-perceived performance, performance metrics, etc.).
  • Performance case studies (sharing PERT solutions, etc.)
eduPERT in GÉANT3plus Project (cont.)

• eduPERT Monthly calls
  • Up to 1 hour calls with an invited talk about a performance-related topic
  • Speakers from and outside of GÉANT community

• Yearly eduPERT community meetings

• eduPERT Workshops
  • General or tailored for a specific user-group

• PerformanceU! (Performance University)
  • A "pilot" for an Annual school
  • 11 invited speakers, 19 attendees
  • Topics included TCP performance, investigative and monitoring tools, virtualisation, OpenFlow and multipath TCP over SDN, case studies and expert reports
eduPERT in GN4-3

- Proposed during the project preparation phase
- No clear instructions from the GPPC
- Not included in the Technical Annex
eduPERT - What's next?

• Keep the brand?
• Rename SIG-PMV to SIG-eduPERT?
• What should it include?
  • Trainings / Workshops / Webinars?
  • Knowledge base?
  • Portal?
  • Assistance in resolving PERT cases?
  • Other...?
Thank you

Any questions?

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