2nd SIG-NGN Meeting

4th & 5th April 2019, Stockholm, Sweden

SIG-NGN is the Special Interest Group on Next Generation Networks.

This meeting was the second meeting of the SIG and hosted by **SUNET** in Stockholm.

blocked URL

Brorsson [CC BY-SA 3.0 (https://creativecommons.org/licenses/by-sa/3.0)], from Wikimedia Commons

Theme

"whiteboxing" & "optical"

Remote Participation

Meeting ID: 338 012 664

Join Zoom Meeting: https://geant.zoom.us/j/338012664
Find your local number: https://zoom.us/u/acBzohYbIm
Join by SIP 338012664@109.105.112.236 or 338012664@109.105.112.235
Join by H.323 109.105.112.236 or 109.105.112.235

Directions

Meeting location: SUNET, Tulegatan 11, Stockholm, Sweden.

Direction provided on the SUNET website.

Quick Links

All Presentations

Checkout the discussion on NREN.slack.com (sign up here)

Subscribe to the NGN mailing list or View the Archive

Contact the NGN Steering Committee

Registration

Attendee List

Agenda (all times are in CET)

Thursday, 4th April 2019 - "White boxing"

Time	What's happening
09:00-12:00	GÉANT GN4-3 WP6 White boxing workshop **This is open to all SIG-NGN attendees** Coordinators: *Xavier Jeannin (Renater), Ivana Golub (PSNC), Tim Chown (Jisc)* In this session we present the work ongoing in the new GÉANT GN4-3 project in the area of white boxing and P4, to solicit input and feedback from the SIG-NGN community on uses cases and services.
09:00-09:10	Welcome and introductions - *Ivana Golub, PSNC, GN4-3 WP6 co-leader*
09:10-09:40	White boxing for NRENs, where we are today, lessons learnt, uptake strategy - *Xavier Jeannin, Renater*
09:40-10:20	Work planned and use cases (including new services) within the GÉANT project - *Xavier Jeannin, Renater and Christos Argyropoulos, GRNet*
10:20-10:40	***Coffee break***
10:40-10:50	Data plane programming, status, uptake strategy - *Xavier Jeannin, Renater*
10:50-11:10	Designing a routing platform for the R&E academic community - *Fréderic Loui, Renater*
11:10-11:30	Network monitoring and security (DDoS mitigation) with P4 - *Marco Savi, FBK*
11:30-12:30	***Lunch***
12:30-13:00	Discussion around white box adoption (Updated) • Use cases, services, innovation, new features, concerns, ... • Uptake - quick-wins and challenges • How should we build a strong community around white boxing and data plane programming (inc. P4) ?
	SIG-NGN

13:00-13:15	Welcome & Introduction - *Rob Evans, Jisc, Rudolf Vohnout, CESNET, Edoardo Martelli, CERN, Lars Fischer, NORDUnet, Jac Kloots, SURFnet*
13:15-14:00	"Whiteboxing at LINX" - *Flemming Heino (LINX)*
14:00-14:45	"A Plethora of P4 Particulars" - *Aaron A. Glenn*
14:45-15:30	"P4-to-VHDL: How We Built the Compiler for FPGA Devices" - *Pavel Benacek & Jan Korenek (CESnet). (Video P4-INT | IPv7 Demo)*
15:30-16:00	***Tea and coffee break***
16:00-16:45	"FPGA and NPU technologies into our next generation production network" - *Yatish Kumar (Lawrence Berkeley National Laboratory)*
16:45-17:30	"ESnet6 High-Touch Services: Telemetry and Rate Monitoring." - *Richard Cziva (ESnet)*
17:30-19:30	***Pause (or provide feedback at Menti.com 67 00 73)***
19:30-20:30	Meet for drinks on the roof top bar Urban Deli (pay for yourself).
20:30	**Dinner at Urban Deli on Sveavägen 44 (*Hosted by SUNET)***

Friday, 5th April 2019 - "Optical"

Time	What's happening
09:00-09:30	***SIG-NGN Steering Committee Catchup***
09:30-09:40	Variable T/F Infrastructure and Testbed - *Josef Vojtech (presented by Rudolf Vohnout), CESnet*
09:40-09:55	"How to measure and analyze non-data applications in fibres?" - *Jan Radil & Rudolf Vohnout (CESnet)*
09:55-10:45	"Disaggregated optical systems" - *Kent Lidström (Smartoptics)*
10:45-11:15	***Tea and coffee***

11:15-11:45	"GEANT lab automation and network evolution." - *Guy Roberts (GÉANT)*
11:45-12:00	"Optical time frequency: its a relative thing" - *Guy Roberts (GÉANT)*
12:00-12:45	"OpenROADM Multi Service Agreements" - *Rob Smets (SURFnet)*
12:45-13:00	Wrap up, Summary and Next Steps - *Rob Evans, Jisc, Rudolf Vohnout, CESNET, Edoardo Martelli, CERN, Lars Fischer, NORDUnet, Jac Kloots, SURFnet* ...and provide feedback at Menti.com 67 00 73
13:00	***Finish***