

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.

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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/acBzohYblm>

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](https://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: <i>Xavier Jeannin (Renater), Ivana Golub (PSNC), Tim Chown (Jisc)</i> 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 - Frédéric 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) ?
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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. " - <i>Guy Roberts (GÉANT)</i>
11: 45- 12: 00	" Optical time frequency: its a relative thing " - <i>Guy Roberts (GÉANT)</i>
12: 00- 12: 45	" OpenROADM Multi Service Agreements " - <i>Rob Smets (SURFnet)</i>
12: 45- 13: 00	Wrap up, Summary and Next Steps - <i>Rob Evans, Jisc, Rudolf Vohnout, CESNET, Edoardo Martelli, CERN, Lars Fischer, NORDUnet, Jac Kloots, SURFnet</i> ...and provide feedback at Menti.com 67 00 73
13: 00	<i>Finish</i>