

# 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](#) ([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	<b>GÉANT GN4-3 WP6 White boxing workshop</b> <b>This is open to all SIG-NGN attendees</b> 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	<a href="#">Welcome and introductions</a> - <i>Ivana Golub, PSNC, GN4-3 WP6 co-leader</i>
09:10-09:40	<a href="#">White boxing for NRENs, where we are today, lessons learnt, uptake strategy</a> - <i>Xavier Jeannin, Renater</i>
09:40-10:20	<a href="#">Work planned and use cases (including new services) within the GÉANT project</a> - <i>Xavier Jeannin, Renater and Christos Argyropoulos, GRNet</i>
10:20-10:40	<b>Coffee break</b>
10:40-10:50	<a href="#">Data plane programming, status, uptake strategy</a> - <i>Xavier Jeannin, Renater</i>
10:50-11:10	<a href="#">Designing a routing platform for the R&amp;E academic community</a> - <i>Frédéric Loui, Renater</i>
11:10-11:30	<a href="#">Network monitoring and security (DDoS mitigation) with P4</a> - <i>Marco Savi, FBK</i>
11:30-12:30	<b>Lunch</b>

12: 30- 13: 00	Discussion around white box adoption (Updated) <ul style="list-style-type: none"> <li>• Use cases, services, innovation, new features, concerns, ...</li> <li>• Uptake - quick-wins and challenges</li> <li>• How should we build a strong community around white boxing and data plane programming (inc. P4) ?</li> </ul>
	<b>SIG-NGN</b>
13: 00- 13: 15	<a href="#">Welcome &amp; Introduction</a> - <i>Rob Evans, Jisc, Rudolf Vohnout, CESNET, Edoardo Martelli, CERN, Lars Fischer, NORDUnet, Jac Kloots, SURFnet</i>
13: 15- 14: 00	"Whiteboxing at LINX" - <i>Flemming Heino (LINX)</i>
14: 00- 14: 45	"A Plethora of P4 Particulars" - <i>Aaron A. Glenn</i>
14: 45- 15: 30	"P4-to-VHDL: How We Built the Compiler for FPGA Devices" - <i>Pavel Benacek &amp; Jan Korenek (CESnet). (Video P4-INT   I Pv7 Demo )</i>
15: 30- 16: 00	<b><i>Tea and coffee break</i></b>
16: 00- 16: 45	"FPGA and NPU technologies into our next generation production network" - <i>Yatish Kumar (Lawrence Berkeley National Laboratory)</i>
16: 45- 17: 30	"ESnet6 High-Touch Services: Telemetry and Rate Monitoring." - <i>Richard Cziva (ESnet)</i>
17: 30- 19: 30	<b><i>Pause (or provide feedback at <a href="https://www.menti.com/670073">Menti.com 67 00 73</a>)</i></b>
19: 30- 20: 30	Meet for drinks on the roof top bar Urban Deli (pay for yourself).
20: 30	<b>Dinner at <a href="#">Urban Deli</a> on <a href="#">Sveavägen 44</a> (Hosted by <a href="#">SUNET</a>)</b>

## Friday, 5th April 2019 - "Optical"

Time	What's happening
09: 00- 09: 30	<b><i>SIG-NGN Steering Committee Catchup</i></b>

09: 30- 09: 40	Variable T/F Infrastructure and Testbed - <i>Josef Vojtech (presented by Rudolf Vohnout), CESnet</i>
09: 40- 09: 55	"How to measure and analyze non-data applications in fibres?" - <i>Jan Radil &amp; Rudolf Vohnout (CESnet)</i>
09: 55- 10: 45	"Disaggregated optical systems" - <i>Kent Lidström (Smartoptics)</i>
10: 45- 11: 15	<b><i>Tea and coffee</i></b>
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 <a href="https://menti.com/670073">Menti.com 67 00 73</a>
13: 00	<b><i>Finish</i></b>