## 11th SIG-NGN Meeting

### Thursday 20th April 2023

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

This meeting of the 11th meeting of the SIG was held in Prague, Czech Republic.

#### Venue:

FZU

Pod Vodárenskou Vží 1 182 00 Prague 8

#### Czech Republic

https://www.fzu.cz/en/about-fzu/contact Meeting room: Solid/1.NP/P.23/1 (Solid Sál - 1)

This SIG-NGN meeting is a co-located event with the LHCONE meeting:  $\label{eq:https://indico.cern.ch/event/1234127/}$ 

#### Theme

# "Large science experiments and networking futures"

SIG-NGN held its 11th meeting as a in person workshop on 20 April 2023. The meeting was hosted jointly with the LHCONE meeting in Prague. We have invited speakers representing some of the largest science communities, including HEP, SKA, DOE presenting their future vision and requirements. As well, networking experts from the NREN community presented current and future network capabilities. The workshop concluded with a discussion group to try and map requirements and capabilities, with a goal to leave both scientists and network engineers better informed about the future. Which is always bright.

#### Quick Links

All Presentations (currently past meeting presentations.)

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

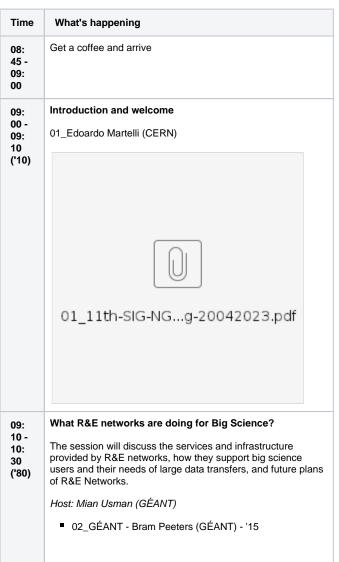
Subscribe to the NGN mailing list or View the Archive

Contact the NGN Steering Committee

## RECORDING

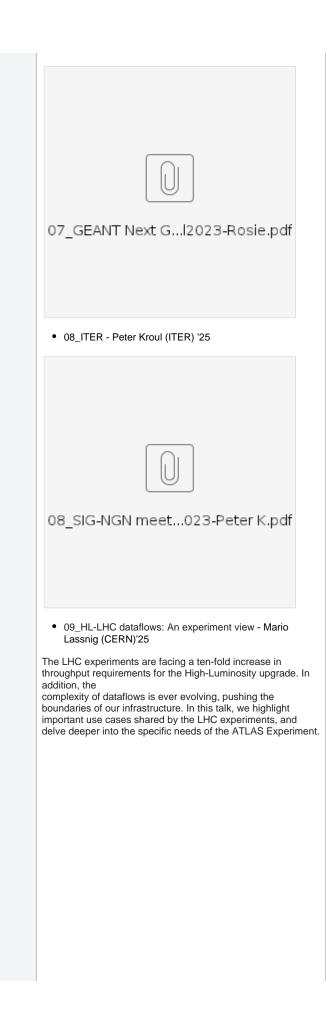
Registered participants (CLOSED) Agenda (all times are in CEST)

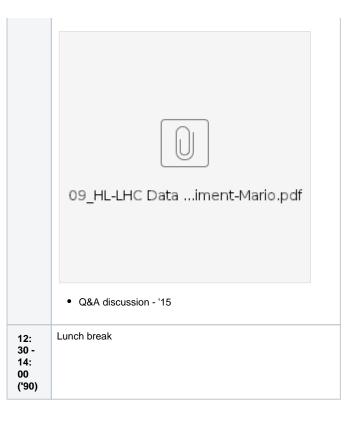
#### Thursday, 20 April 2023

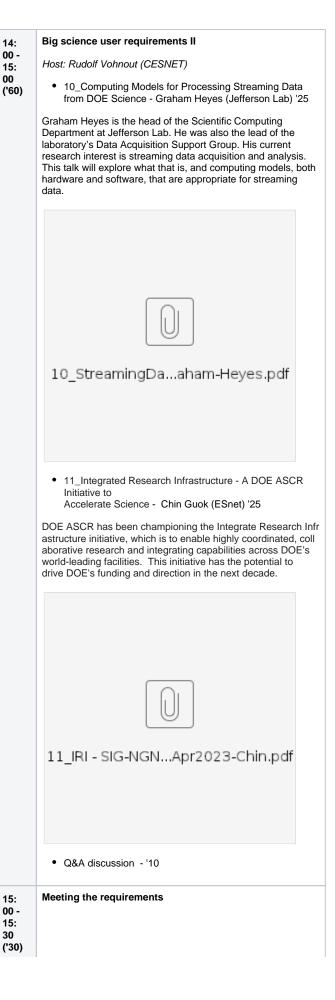


02_SIG-NGN_in_Bram.pdf
<ul> <li>03_IPv6 traffic - Bruno Hoeft (KIT) '15</li> </ul>
03_HEPiX-IPv6-20ril-20-Bruno.pdf
■ ■ 04_PerfSONAR - Lætitia A Delvaux (PSNC) '15
04_20230420-perGN-Laetitia.pdf
<ul> <li>05_SURF - Alexander van den Hill(SURF) - '10</li> </ul>

	05_SIG NGN Apri3-Alexander.pdf         06_Internet2 - Chris Wilkinson (Internet2) - '10         00         06_NGN-SIG 2023inson-Chris.pdf         08A discussion - '15
10: 30 - 11: 00 ('30)	Coffee break
11: 00 - 12: 30 ('90)	<ul> <li>Big science user requirements I</li> <li>This session will discuss the network capacity requirements of big science users and how these requirements are evolving as scientific research becomes increasingly data-intensive.</li> <li><i>Host: Edoardo Martelli (CERN)</i> <ul> <li>07_SKA - Rosie Bolton (SKA) '25</li> </ul> </li> <li>The SKA Observatory and the SKA Regional Centres: Operational model and implications for data transfer.</li> </ul>







The research and education (R&E) networks will share how they are working together to deliver intercontinental capacity and adequate connectivity links to support the needs of big science users

Host: Mian Usman (GÉANT)

<ul> <li>12_International Connectivity - Sebastiano Buscaglione (GÉANT) '10</li> </ul>
12_SIG-NGN - GNSebastiano.pdf
<ul> <li>13_International Connectivity - Pieter de Boer (SURF) '10</li> </ul>
13_20230421 - Ster de Boer.pdf
<ul> <li>16_Multi-domain Spectrum Service - Matteo/Paolo Bolletta (GARR) '5</li> </ul>
I6_sig-ngn scs cMatteo-Paolo.pdf
Q&A discussion - '5

15: 30 - 16: 00 ('30)	Coffee break
16: 00 - 16: 40 ('40)	<ul> <li>Mapping big science requirements to what the R&amp;E Networks are doing</li> <li>This session will include presentations on the requirements of big science users and how these requirements can be mapped to the services and infrastructure provided by research and education (R&amp;E) networks</li> <li><i>Host: Edoardo Martelli (CERN)</i></li> <li>14_ESCAPE: 'Large science experiments and networking futures' - Yan Grange (ASTRON / LOFAR)'20 Yan will present the work that has been executed on the Scientific Data Lake, a data infrastructure targeted at large-scale data management within a network of heterogeneous storage resources. This work was conducted as part of work package 2 of the ESCAPE project.</li> </ul>
	14_ESCAPE-GEANIG-NGN-Yan.pdf
	<ul> <li>15_ESnet science user requirements - Eli Dart - '20</li> <li>15_20230420-darScience-Eli.pdf</li> </ul>
16: 40 - 17: 30 ('50)	Facilitated discussions Host: Enzo Capone (GEANT) & Eli Dart (ESnet) - '50

17: *End* 30