Join us

In 2014 we launched the Agile Optical Networking (AON) Tech Summit, an annual event where network operators, enterprises and partners from Europe and the Middle East could gather together with Nokia engineers and leaders to share, learn, and experience the latest in optical networking. Since then, the event has grown into a multi-day conference featuring certifications, partners, industry analysts, and an impressive exhibition of live hardware and software demonstrations.

For its 7th edition in 2020, we are building upon the success and growth of AON by welcoming a global audience of network operators, enterprises and partners, accompanied by a fresh new name - Nokia Wavelengths. 'Wavelengths' will continue to offer the live demonstrations, interaction, education, and hands-on experience attendees have experienced in previous editions, with a broader perspective and some new exciting features.

We look forward to welcoming you in Budapest.

Sincerely,

Sam Bucci
Senior Vice President & General Manager
Optical Networking Business Unit, IP/Optical Networks
Nokia
## Agenda

### Thursday April 2

**Day 3**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>7:00 - 19:00</td>
<td>ONC Written Exams</td>
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<tr>
<td>8:00 - 16:30</td>
<td>Registration Open</td>
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<tr>
<td>9:00 - 16:15</td>
<td>Exhibition Open</td>
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### Breakouts

<table>
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<tr>
<th>Time</th>
<th>Breakout 1</th>
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<tr>
<td>9:00 - 9:05</td>
<td>Welcome - Kyle Hollasch</td>
<td>Welcome - Kevin Drury</td>
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<td>9:05 - 9:40</td>
<td>Time-Sensitive Networking - A Key Element of 5G Transport - Stephan Roullot</td>
<td>Virtualizing the Optical Infrastructure with Open Agents &amp; Applications - Sylvain Chenard</td>
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<tr>
<td>10:15 - 10:35</td>
<td>Customer Testimonial</td>
<td>Innovations in Optical Network Management &amp; Control - Steve Kingscott / Luigi Foresta</td>
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<td>10:35 - 11:05</td>
<td>Break</td>
<td>Break</td>
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<tr>
<td>11:40 - 12:15</td>
<td>Upgrading the Core to SDN-Ready Ultra Wide-Band - Szilard Zsigmond</td>
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<td>12:15 - 12:35</td>
<td>Customer Testimonial - Customer</td>
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<td>12:35 - 14:30</td>
<td>Lunch</td>
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<td>14:30 - 15:05</td>
<td>A New Portfolio for the Edge - Enrico Di Lorenzo</td>
<td>Open Line, Open Spectrum, Space Division Multiplexing, &amp; ULH Systems - Luca Possidente</td>
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<td>15:05 - 15:40</td>
<td>Data Center Connectivity - Pedja Dragovic</td>
<td>Nokia Open Optical Networking: From Dissagregation to Shared Spectrum - Lubo Tancevski (or Szilard Zsigmond)</td>
</tr>
<tr>
<td>15:40 - 16:00</td>
<td>Customer Testimonial - Customer</td>
<td>Customer Testimonial / Partner Intro - Customer + Partner</td>
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<tr>
<td>16:00 - 16:15</td>
<td>Closing Ceremony - Leader team</td>
<td>Closing Ceremony - Leader team</td>
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### Sponsors

Take advantage our exclusive sponsorship opportunities available for a select few Partners. For more information about Nokia’s IP & Optical Networks (ION) 2020 sponsorship program, please contact Karen Whitaker at +49 171 305 1967 or karen.whitaker@nokia.com.

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**Silver sponsors**

![Intel](intel.png)  
**Official Test Equipment Sponsor**

![VeEX](veex.png)
The Wavelengths Exhibition will feature a comprehensive set of original live demonstrations prepared by our engineering and product management teams. Innovations will touch all network applications:

- Low latency and Time Sensitive Networking (TSN) solutions for 5G transport
- Packet optical and OTN/WDM solutions for metro access and edge
- Disaggregated solutions for Datacenter Interconnect
- Secure mission-critical networks for industries and enterprises
- Scalable and flexible OTN/WDM solutions for core and subsea

Beside the WaveFabric hardware featured in numerous live demonstrations, we will also showcase our latest software enabled capabilities around transport SDN and open applications, with WaveSuite applications, as well as our professional services know-how, with WavePrime solutions.

Be sure to stop by our new WaveHub corner, which is Nokia’s connected ecosystem program. A proof-point, and commitment, to Nokia’s strategy of openness, collaboration and new value creation. Community members include Nokia customers, complementary independent software vendors, complementary system integrators, consultants and more. WaveHub’s goals include to accelerate innovation and business growth while making collaboration easier, in order address business needs and market opportunities. The WaveHub corner in the Wavelengths exhibition will feature ecosystem members who will be showcasing products and solutions which, when combined with Nokia’s, deliver enhanced value propositions.

Register now!
nokiawavelengths.com
Leverage your investment in Nokia optical technology and prepare for the future of optical networking with the Nokia Optical Network Certification (ONC) Program.

The ONC Program is designed to provide industry professionals with the training and skills needed to design, implement, manage, and maintain optical networks based on the Nokia 1830 PSS and NFM-T.

https://networks.nokia.com/onc

The ONC Program Offers 4 Certifications:
- Optical Network Professional (New!)  
- Optical Network Services Expert  
- Optical Network Design Expert  
- Optical Network Architect

Be a First to Certify as a Nokia Optical Network Professional at Wavelengths
Leave Wavelengths with an industry-recognized certification! We’ll provide you all the resources in advance to prepare for the required written exam to be taken at Wavelengths. Even better, this will be at no cost to you. Pass the exam and you’re certified!

Register now

Visit our experts in the Exhibition Hall and take advantage of more exclusive learning offers
Stop by and visit our experts in the Exhibition Hall. They will be more than happy to answer your questions about optical networking and the ONC Program. You’ll also be able to sign up for exclusive learning offers that include:
- Written exam vouchers that can be used at Pearson VUE test centers
- Remote lab access time with My Nokia Optical Labs
- Free courseware samples to review content from our instructor-led courses.

Take Any ONC Written Exam for Free!
Test your optical networking knowledge and work towards any Optical Network Certification at no cost to you! All written exams for each of our 4 certifications are available for registration at Wavelengths.

Learn more
Attend a Seminar

Our team will be delivering seminars on Day 1 of Wavelengths based on training from the ONC Program that features Integrated Packet Transport over WDM, Optical Transport for Mobile Services, and GMPLS.

Integrated Packet Transport over WDM
(2 hour seminar)
Day 1: Tuesday, March 31st, 2019
Session 1 – 10 am -12 pm
Session 2 – 1:30 pm - 3:30 pm

Join us as we explore provisioning and managing Carrier Ethernet services over optical networks using the Service Router Operating System (SR OS) capabilities of 1830 PSS. In this 2-hour seminar, we’ll introduce key concepts for transporting Layer 2 traffic through packet-aware optical networks, including:

- Carrier Ethernet services
- Provider Bridging
- 802.1Q Virtual LANs (VLANs)
- QinQ tagging, Virtual Private LAN Service (VPLS)
- G.8032 Ethernet Ring Protection (ERP)
- Link Aggregation Groups (LAGs)
- MPLS-TP
- Ethernet Service Module (ESM) of the NFM-T from the NSP module
- Quality of Service (QoS) policies.

Optical Transport for Mobile Services
(2.5 hour seminar)
Day 1: Tuesday, March 31st, 2019
Session 1: 10:00 am – 12:30 pm

Explore the principles and best practices for optical transport traffic from current and future (5G) cellular networks, and from the base stations to the mobile core network. This 2.5-hour seminar presents the use cases for optical fronthaul, midhaul, and backhaul. Optical technologies and architectures based on the 1830 Versatile WDM Module (VWM) are proposed for fronthaul to meet 5G requirements, as well as solutions to support a packetized fronthaul (TPS: Time-sensitive Packet Switch).

Leverage the Features of the GMPLS Routing Engine
(1.5 hour seminar)
Day 1: Tuesday, March 31st, 2019
Session 1: 1:30 pm – 3:00 pm

This seminar will present the value proposition of Nokia GMPLS Routing Engine (GMRE) while controlling optical transport networks. After introducing the key GMPLS features, the seminar will focus on the technologies and solutions supported by GMRE, and will additionally show some typical use cases. Protections such as SBR, GR, and PRC are included, and fiber cut scenarios will also be discussed.

Registration is available on a first-come, first serve basis as part of the event registration.

Register now! nokiawavelengths.com
**Corinthia Hotel**  
Erzsebet krt. 43-49  
Budapest 1073  
Hungary

**Guestroom rate:**  
from 196.60€ per night

Previously the Grand Hotel Royal, The Corinthia Hotel Budapest is now one of the finest hotels in the heart of Budapest. Ideally located within walking distance of several of the city’s most exciting attractions, this classic property captures the city’s glamour and romance, where guests will find the perfect balance between business and leisure.

The hotel has been transformed to offer the highest standards of contemporary luxury, whilst retaining the beautiful historical features such as marble floors, a grand sweeping staircase and a stunning six-story atrium. The original Royal Spa has been given a new lease of life, remodeled as a luxurious and contemporary spa with a 15 metre pool.

The hotel offers over 400 spacious and tastefully decorated guestrooms and suites over six floors. All rooms and suites are fitted with a minibar, safe, hair-dryer, tea/coffee facilities & iron/ironing board.

Onsite dining options include the renowned “Rickshaw Asian Restaurant” as well as the hotel Brasserie & Atrium Restaurants and the comfortable “Le Bar & Lounge”.

Free Wifi will be available in the bedrooms and all conference facilities for all Wavelengths attendees.

**Hotel reservations**

Hotel requests can be made during the online event registration starting December 3, 2019.

All registrants who have requested accommodation during your registration will receive a detailed hotel reservation confirmation from our agency Conference Contacts approximately 2 weeks prior to the event. For any changes or cancellations, please contact Conference Contacts at nokia@conferencecontacts.co.uk or tel. +44 1628 773 300. **Please do not contact the hotels directly!**

**Guestroom cancellation terms**

Reservations can be cancelled without penalty up to 17:00 on March 24, 2020. If you cancel your reservation after that date and your room cannot be resold, the hotel reserves the right to charge for the duration of your intended stay as cancellation fees. This also comes into effect in case of early departure or no-show.
Registration

Registration is free of charge for all Nokia customers and partners. A pass includes:
• All conference tracks
• Exhibition
• All coffee breaks and luncheons
• Networking events
• Speakers’ presentation slide-sets

The fees do NOT include hotel accommodation and personal travel charges. Hotel charges will be charged directly by the hotel.

Purchases and payment policy
All applicable fees are payable at the end of the online registration process and will be charged by Conference Contacts Limited, UK for and on behalf of Nokia. A transaction fee of 3% will be added to all payments. A detailed receipt can be downloaded directly from the confirmation you will receive upon completion of the online registration process. Please contact the Registration Support Team, for any questions regarding the registration process.

Cancellations
In the event of cancellation prior to March 16, 2020, you will not be charged a cancellation fee and receive a full refund of your registration fee minus any applicable transaction fees. In case of cancellation on or after March 16, 2020, or no-show, we reserve the right to charge you a cancellation fee equivalent to 100% of your registration fee or 500 € if you registered for a free pass.

Substitutions
If you are unable to attend Wavelengths after registering, a substitution from the same company is permitted at no charge. Substitutions must be made in writing to the Registration Support Team with the names and email addresses of both the original and substitute registrant. Any balance due will automatically be transferred to the substitute. Cancellation of travel reservations and hotel reservations are the exclusive responsibility of the registrant.

Contact us

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karen.whitaker@nokia.com

Accommodation or Registration
Conference Contacts
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nokia@conferencecontacts.co.uk

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