

SESSIONS

PRE-CONFERENCE WORKSHOPS - 21/06/2022

NGON & DCI World

21 - 23 June 2022

Hyatt Regency Barcelona Tower, Spain

Pre-Conference Registration & Coffee

09:00 - 09:30

Pre-Conference Workshops

Overview of Recent Developments for Optical Network Standards

09:30 - 11:00

Pre-Conference Workshops

- Perspective on all-optical services network transition from a standards point of view
- How F5G enables business success via all optical services network transitions

Participants

Luca Pesando - Chairman ISG F5G, ETSI

Behnam Shariati - Project Manager, Fraunhofer HHI

Teun van der Veen - Senior Consultant Media Networks, TNO

Xiang Liu - Principal Scientist, Transmission Network Product Line, Huawei

Coffee & Networking

11:00 - 11:30

Pre-Conference Workshops

TeraFlow SDN: Where Research and Open Networking Meets Industry

11:30 - 12:30

Pre-Conference Workshops

- The need for smart open-source connectivity from research to industry PoCs
- Development of open standards for advanced applications over optical infrastructure
- Operator-driven deployment scenarios of advanced applications using IP over DWDM
- Findings and next steps for industry using open networking over optical networks

Participants

Oscar Gonzalez de Dios - Technology Expert of Transport Networks, Telefonica

Daniel King - Consultant ODC & Teraflow Project, Old Dog Consulting

Ricard Vilalta - Senior Researcher, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC)

Lunch & Networking

12:30 - 13:30

Pre-Conference Workshops

OIF on Overcoming Implementation Challenges to Enable Interoperability

13:30 - 15:00

Pre-Conference Workshops

Participants

Karl Gass - Physical & Link Layer Working Group Vice Chair – Optical, Optical Interworking Forum (OIF)

Dave Brown - Director of Communications, Optical Internetworking Forum (OIF)

Coffee & Networking

15:00 - 15:30

Pre-Conference Workshops

Quantum Key Distribution

15:30 - 16:45

Pre-Conference Workshops

- Quantum Key Distribution: Is this the Future of Cyber Security?
- Building the World's First Integrated Quantum Communication Network
- The applications of such quantum communication

Participants

Diego Lopez - Senior Technology Expert, Telefonica

Antonio Perales - Technical Expert, Telefonica

Carlos Abellan - CEO & Co-Founder, Quside

Sebastian Etxeverry - CTO, LuxQuanta

Welcome Drinks Reception

16:45 - 17:45

Pre-Conference Workshops

SCHEDULE

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11:00	11:00 - Coffee & Networking 11:30 - TeraFlow SDN: Where Research and Open Networking Meets Industry
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13:00	13:30 - OIF on Overcoming Implementation Challenges to Enable Interoperability
14:00	
15:00	15:00 - Coffee & Networking 15:30 - Quantum Key Distribution
16:00	16:45 - Welcome Drinks Reception

Registration & Coffee

08:00 - 08:10

BREAKFAST BRIEFING: ITU-T SG15's Standardization Activities

08:10 - 08:45

- Overview, mandate and structure of ITU-T Study Group 15
- International standards on networks, technologies and infrastructures for transport, access and home
- Hot topics and recent standards from ITU-T Study Group 15

Participants

Hiroshi Ota - SG15 Counsellor, ITU

Chair's Welcome Address and Omdia Optical Networks Update

08:45 - 09:00

Keynotes

Participants

Ian Redpath - Research Director, Transport & Components, Omdia

The Economic Benefits of Innovative Approaches to Organising and Managing Transport Networks

09:00 - 09:20

Keynotes

- European Use Case: Photonic Backbone using DWDM technologies
- Attaining maximum reliability, high performance and low latency with this approach
- The operational challenges of this approach

Participants

Prasanna Sundaram - Associate Director, Optical Network Engineering, Colt Technology Services

SPONSOR ADDRESS: Towards Green All-Optical Transport Network

09:20 - 09:40

Keynotes

- The optical network is the greenest communication infrastructure
- Build a green all-optical target network to enable dual-carbon strategy and new business growth
- WDM deploying to the edge sites can achieve optimal TCO in the metro network

Participants

Liu Xiang - Chief Optical Standards Expert, Huawei

Open Optical Networking and Disaggregation – A Requirement?

09:40 - 10:20

Keynotes

- Improving supply continuity through the use of multiple suppliers
- Who defines the fundamental APIs and interfaces?
- Breakdown of innovations brought by disaggregation
- What are the technical and commercial implications of operators seeking interoperability?

Participants

Moderator: Ian Redpath - Research Director, Transport & Components, Omdia

Mattias Fridström - Vice President & Chief Evangelist, Arelion

Edward Echeverry - Head of Planning and Engineering of Transport Networks, Telefonica

Dave Brown - Director of Communications, Optical Internetworking Forum (OIF)

Andreas Hegers - VP IP Optical Center of Excellence EMEA, Ribbon

Mark Gibbon - Architect - Regional Portfolio Management, Ciena

SPONSOR ADDRESS: Intelligent Network Evolution based on Big Data and AI

10:20 - 10:40

Keynotes

- The electrical-optical hybrid cross-connection – the basis for intelligent elastic network
- Build end-to-end intelligent network with WASON + SDN
- Prediction and analysis of autonomous network

Morning Refreshment Break & Networking

10:40 - 11:30

Keynotes

SPONSOR ADDRESS: Coherent Optics: 400G, 800G and Beyond

11:30 - 11:50

Keynotes

- Benefits and challenges of 400G ZR+ coherent optics
- Implementing these new coherent innovations
- What happens after 800G?

Participants

Helen Xenos - Senior Director, Portfolio Marketing, Ciena

Reimagining Your Network: Moving Towards Converged IP and Optical Architecture

11:50 - 12:20

Keynotes

- Addressing the challenges brought by legacy networks
- Network automation as a means of reducing the planning complexity of upgrades and expansions

Participants

Moderator: Ian Redpath - Research Director, Transport & Components, Omdia

Paulo Oliveira - Transport Network Engineer, NOS SGPS

Edward Echeverry - Head of Planning and Engineering of Transport Networks, Telefonica

Wolfram Sturm - EMEA Senior Director Regional Product Line Management Optical Networks, Nokia

Craig McMillan - EMEA Sales Engineering Director, Ciena

SPONSOR ADDRESS: Service-Centric Optical Networks: Scalable, Simplified, Streamlined

12:20 - 12:40

Keynotes

- Delivering unlimited end-to-end network scale
- Simplifying network and service operations
- Enabling new services
- Streamlining the network for increased efficiency

Participants

Nicolas Almendro - VP EMEA Presales DCC Optics, Nokia

Networking Lunch

12:40 - 13:40

Keynotes

Chair's Opening Remarks

13:40 - 13:45

Optical Network Transformation & Automation

Participants

Emir Halilovic - Principal Analyst, GlobalData

Chair's Opening Remarks

13:40 - 13:45

Data Centre Connectivity

Participants

Kevin Kent - Data Center Operations, Ohio State University, Wexner Medical Center

An Overview of Potential Transport Optical Network Architecture for European Mid-Size Telcos

13:45 - 14:05

Optical Network Transformation & Automation

- Drivers and challenges of an operator – aggregation, backbone and core
- High level network architecture view focusing on transport areas, from access nodes to core and content provider sources
- Backbone WDM topology and architecture
- Outlook on NG Mobile access backhauling

Participants

Emil Babics - Head of IP and Transmission Network Department, Telekom HU

Daniel Retsan - IP and Transmission Network Specialist, Magyar Telekom

The Changing Infrastructure of Data Centers and Data Distribution

13:45 - 14:05

Data Centre Connectivity

Participants

Stijn Grove - Managing Director, Dutch Data Centre Association

SPONSOR ADDRESS: Evolution of Optical Networking Infrastructure in Metro Aggregation Networks

14:05 - 14:25

Optical Network Transformation & Automation

- Evaluating the trends that drive new architecture requirements
- Is IP and Optical convergence a vision or reality?
- Can we leverage existing infrastructure for scalability?

Participants

Jon Baldry - Director, Metro Marketing, Infinera

SPONSOR ADDRESS: From Leased Lines to Optical Spectrum Services

14:05 - 14:25

Data Centre Connectivity

- What is "optical spectrum as a service"?
- How do current generation optical line systems support transparent cross-border interconnection?
- What opportunities arise from sharing optical spectrum resources internationally?

Participants

Cornelius Fürst - Product Line Manager, ADVA Optical Networking

Optical Network Progressions that Support 5G FMC Services

14:25 - 14:55

Optical Network Transformation & Automation

- Where are the new opportunities? How can networks build to take advantage of these opportunities?
- What are the roles and requirements for fronthaul, midhaul, and backhaul segments in 5G transport?
- Lessons already learned from 5G FMC deployments

Participants

Andrew van der Haar - Managing Director, Data Center Groningen

Liu Xiang - Chief Optical Standards Expert, Huawei

Justin Abbott - Director of Product Line Management, Lumentum

FIRESIDE CHAT: Accommodating the Growth of Computing at the Edge

14:25 - 14:55

Data Centre Connectivity

- Overview of the latest trends in data centre infrastructure & networking hardware
- Gauging security challenges at the edge
- Means of reducing size, cost and power consumption

Participants

Moderator: Tomas Lamanuskas - Managing Partner, Envision Associates

Ayotunde Coker - Managing Director, Rack Centre

SPONSOR ADDRESS: Future-Oriented Transport Network Innovation

14:55 - 15:15

Optical Network Transformation & Automation

- How to get optimal TCO per bit in the 400G era?
- Super C+L maximizes the fiber value.
- How to match the transport costs and power consumption with traffic growth.

Participants

Maxim Kuschnerov - Director of the Optical and Quantum Communications Laboratory, Huawei

SPONSOR ADDRESS: Why IP+OTN (not IPoDWDM)?

14:55 - 15:15

Data Centre Connectivity

- IPoDWDM is NOT the mainstream trend of IP Industry
- IP+OTN can provide the best network evolution, openness, lower network TCO and simpler network OAM

Participants

Italo Busi - Principal Optical Transport Research Engineer, Huawei

Afternoon Refreshments & Speed Networking

15:15 - 16:15

Get your business cards ready and join this structured and fast-paced networking format where every minute, the bell will ring and participants shift places. It is designed to accelerate the number of business contacts made, maximising every minute of networking time available.

SPONSOR ADDRESS: Using Compact OTN for Transport-as-a-Service (TaaS) applications

16:15 - 16:35

Optical Network Transformation & Automation

- Bandwidth virtualization enables service-oriented optical transport networks
- Resource-sharing in electrical domain allows multiple clients / services on the same wavelength
- Dedicated bandwidth per-service secures data and guarantees performance

Participants

Sergio Timoteo - Global Product Line Manager - Ekinops360 Product Portfolio, Ekinops

SPONSOR ADDRESS: Evolving Data Centre Infrastructure to Support Hyperconnectivity

16:15 - 16:35

Data Centre Connectivity

- Overview of photonic technologies and network architectures for next generation data centres
- Promising solutions for increase in bandwidth requirements
- Shifting to coherent technology?

Participants

Justin Abbott - Director of Product Line Management, Lumentum

SESSIONS

DAY 1 - 22/06/2022

NGON & DCI World

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Achieving Higher Performance and Efficiency Using Coherent Pluggable Optics Supported by Automation

16:35 - 16:55

Optical Network Transformation & Automation

- How has coherent technology evolved over the years?
- Assessing the complimentary relationship between pluggable and coherent optics
- Will coherent optics make it to the data centre?
- 400ZR and point-to-point data centre interconnect (DCI) representing new evolutions towards higher capacity, pluggable solutions

Participants

Paul Wright - Research Manager Optical Networks, BT

Addressing Climate Change: Carbon Neutral Data Centres

16:35 - 16:55

Data Centre Connectivity

- Overview of the Carbon Neutral Data Centre Pact – how to deliver on this promise
- Setting out a project pathway to meet power use effectiveness (PUE) targets
- Embedding sustainable technologies to achieve energy resource efficiency

Participants

Alex Rabbetts - Managing Director, European Data Centre Association

SPONSOR ADDRESS: Crossing the Automation Divide

16:55 - 17:15

Optical Network Transformation & Automation

- Achieving a service-driven agile optical layer at your own pace
- Benefiting from a multivendor ecosystem

Participants

Jonathan Homa - Senior Director of Solutions Marketing, Ribbon

CASE STUDY: OTN Private Line, Key Enabler of Revenue Growth

16:55 - 17:15

Data Centre Connectivity

Participants

Carlo Richartz - Director of Network Planning Department, POST Luxembourg

NGON & DCI World Awards Ceremony followed by Drinks Reception

17:15 - 18:45

NGON & DCI World Beach Party

18:45 - 21:45

SCHEDULE

DAY 1 - 22/06/2022

NGON & DCI World

21 - 23 June 2022
Hyatt Regency Barcelona Tower, Spain

TIME	DATA CENTRE CONNECTIVITY	KEYNOTES	OPTICAL NETWORK TRANSFORMATION & AUTOMATION
08:00	08:00 - Registration & Coffee 08:10 - BREAKFAST BRIEFING: ITU-T SG15's Standardization Activities	08:00 - Registration & Coffee 08:10 - BREAKFAST BRIEFING: ITU-T SG15's Standardization Activities 08:45 - Chair's Welcome Address and Omdia Optical Networks Update	08:00 - Registration & Coffee 08:10 - BREAKFAST BRIEFING: ITU-T SG15's Standardization Activities
09:00		09:00 - The Economic Benefits of Innovative Approaches to Organising and Managing Transport Networks 09:20 - SPONSOR ADDRESS: Towards Green All-Optical Transport Network 09:40 - Open Optical Networking and Disaggregation – A Requirement?	
10:00		10:20 - SPONSOR ADDRESS: Intelligent Network Evolution based on Big Data and AI 10:40 - Morning Refreshment Break & Networking	
11:00		11:30 - SPONSOR ADDRESS: Coherent Optics: 400G, 800G and Beyond 11:50 - Reimagining Your Network: Moving Towards Converged IP and Optical Architecture	
12:00		12:20 - SPONSOR ADDRESS: Service-Centric Optical Networks: Scalable, Simplified, Streamlined 12:40 - Networking Lunch	
13:00	13:40 - Chair's Opening Remarks 13:45 - The Changing Infrastructure of Data Centers and Data Distribution		13:40 - Chair's Opening Remarks 13:45 - An Overview of Potential Transport Optical Network Architecture for European Mid-Size Telcos
14:00	14:05 - SPONSOR ADDRESS: From Leased Lines to Optical Spectrum Services 14:25 - FIRESIDE CHAT: Accommodating the Growth of Computing at the Edge 14:55 - SPONSOR ADDRESS: Why IP+OTN (not IPoDWDM)?		14:05 - SPONSOR ADDRESS: Evolution of Optical Networking Infrastructure in Metro Aggregation Networks 14:25 - Optical Network Progressions that Support 5G FMC Services 14:55 - SPONSOR ADDRESS: Future-Oriented Transport Network Innovation
15:00	15:15 - Afternoon Refreshments & Speed Networking	15:15 - Afternoon Refreshments & Speed Networking	15:15 - Afternoon Refreshments & Speed Networking

SCHEDULE

DAY 1 - 22/06/2022

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TIME	DATA CENTRE CONNECTIVITY	KEYNOTES	OPTICAL NETWORK TRANSFORMATION & AUTOMATION
16:00	<p>16:15 - SPONSOR ADDRESS: Evolving Data Centre Infrastructure to Support Hyperconnectivity</p> <p>16:35 - Addressing Climate Change: Carbon Neutral Data Centres</p> <p>16:55 - CASE STUDY: OTN Private Line, Key Enabler of Revenue Growth</p>		<p>16:15 - SPONSOR ADDRESS: Using Compact OTN for Transport-as-a-Service (TaaS) applications</p> <p>16:35 - Achieving Higher Performance and Efficiency Using Coherent Pluggable Optics Supported by Automation</p> <p>16:55 - SPONSOR ADDRESS: Crossing the Automation Divide</p>
17:00	<p>17:15 - NGON & DCI World Awards Ceremony followed by Drinks Reception</p>	<p>17:15 - NGON & DCI World Awards Ceremony followed by Drinks Reception</p>	<p>17:15 - NGON & DCI World Awards Ceremony followed by Drinks Reception</p>
18:00	<p>18:45 - NGON & DCI World Beach Party</p>	<p>18:45 - NGON & DCI World Beach Party</p>	<p>18:45 - NGON & DCI World Beach Party</p>

NGON & DCI Run

07:15 - 08:00

Join your fellow running enthusiasts as your course will take you along the ... including a prize for the fastest runner!

Registration & Coffee

08:00 - 08:45

Chair's Welcome Address

08:45 - 08:55

Keynotes

Planning for High Availability and cost optimization in OTE's Core Transport Network

08:55 - 09:15

Keynotes

- Path protection on the optical layer
- Optical layer protection over submarine links
- Diversity and Georedundancy to maximize availability
- Cost optimization

Participants

Thomas Logiadis - Head of Core Transport Network Planning Section, Hellenic Telecommunications Organisation

Leveraging Fibre for Consumer, Enterprise and Mobile

09:15 - 09:35

Keynotes

- PON is being used for mass rollout to consumers, but has a number of challenges as mobile xhaul
- 5G xhaul requirements are also driving point to point fibre deployment and potential new approaches
- New access architectures and technologies may be required for cost effective small cell delivery

Participants

Trevor Linney - Research leader - Access Networks, Openreach

SPONSOR ADDRESS: Optical Transceivers in Data Centre Networks

09:35 - 09:55

Keynotes

- Addressing the increasing demands for bandwidth, capacity and lower latency in cloud-data centres with 400G
- Will anything below 400G soon be obsolete?
- Is 800G the new currency?

Out of Industry - Airbus: Bridging a Gap with Laser Satellite Communication

09:55 - 10:15

Keynotes

- Trends towards free-space communication
- An overview of space-based laser communication which complements existing terrestrial networks

Participants

Kevin Shortt - Research Project Leader Optical Communications, Airbus Group

SPONSOR ADDRESS: Achieving Cloud Economics in Service Provider Networks

10:15 - 10:35

Keynotes

Participants

Nicola Benvenuti - Vice President, IP & Optical Product Line Management, Ciena

Morning Refreshment Break & Networking

10:35 - 11:20

Chair's Opening Remarks

11:20 - 11:25

Looking Forward: Evolving Networks & Data Centres

ROUNDTABLE: Fibre for the Future

11:20 - 12:00

Next Generation Optical Long-Haul & Submarine Networks

- Discussing the importance of optical fibre as a foundation for the future of networks, as well as the possibility of other foundational layers in the industry.

Participants

Tomas Lamanuskas - Managing Partner, Envision Associates

SPONSOR ADDRESS: The Coherent Optical Edge

11:25 - 11:45

Looking Forward: Evolving Networks & Data Centres

- What are the key applications driving the current bandwidth explosion at the edge?
- Where are new service opportunities for operators?
- How do new coherent technologies help to create future-proof network?
- What role do direct-detect optics play in the edge?

Participants

Stephan Rettenberger - SVP - Marketing & Investor Relations, ADVA Optical Networking

Intelligent 400G IP+WDM Metro Network

11:45 - 12:05

Looking Forward: Evolving Networks & Data Centres

Participants

Santiago Constanzo - Planning Chief of Transport Network, Telecom Argentina

ROUNDTABLE: SDM Optical Submarine Networks

12:00 - 12:40

Next Generation Optical Long-Haul & Submarine Networks

A discussion of the evolution of submarine networks along terrestrial ones over the past decades. Will SDM be the solution to cover future increased capacity needs?

Participants

Ioannis Tomkos - Professor, University of Patras

SPONSOR ADDRESS: Future-oriented All Optical Metro

12:05 - 12:25

Looking Forward: Evolving Networks & Data Centres

- All optical connections – the cornerstone of the digital world
- OTN to edge allows integrated service transmission in various scenarios
- OSU supports optical private line service development

OTN to the Edge – Composing a Metro Network with Optimal TCO

12:25 - 12:45

Looking Forward: Evolving Networks & Data Centres

Participants

Kiat Narong - Network Director, AIS Thailand

ROUNDTABLE

12:40 - 13:20

Next Generation Optical Long-Haul & Submarine Networks

SESSIONS

DAY 2 - 23/06/2022

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Overcoming the Obstacles to Automating Optical Network Operations

12:45 - 13:15

Looking Forward: Evolving Networks & Data Centres

- Automation challenges in legacy networks
- Discussing which elements and functionalities that need to be automated
- What will the impact of network automation have on other network KPIs?

Participants

Harald Bock - VP Network & Technology Strategy, Infinera

Dejan Bilbija - Director Sales Systems Engineering EMEA, Ciena

Networking Lunch

13:20 - 14:20

Maximize the Fiber Capacity by Super C+L

14:20 - 14:40

Keynotes

Participants

Sema Kurt - Senior Network Planning Expert, Turkcell

Exploring the Subsea Market, Architecture & Regulations

14:40 - 15:10

Keynotes

- Updates on consortiums and cables laid in the past year
- Evaluating the initiative to establish a regulator/ authority to monitor submarine cable deployment
- What is the importance of classing subsea cables as "critical infrastructure"?
- What are the anticipated challenges on the horizon?

Participants

John Wrottesley - Liaison Officer, The European Subsea Cables Association

Luca Luchesini - Leader Global SLTE, Network Infrastructure Optical Networks, Nokia

Looking Ahead: State of the OTN & DCI Industry in 10 years?

15:10 - 15:55

Keynotes

In this discussion, we bring together some of the industry thoughts leaders as they cast an eye ahead to what the state of optical networks will be, and how the value chain might evolve, as well as how to address supply chain issues that have come up in the past couple of years. Take the opportunity to provide your thoughts and what your predictions are.

Participants

Ioannis Tomkos - Professor, University of Patras

Chair's Closing Remarks

15:55 - 16:05

Keynotes

Afternoon Refreshment Break & Close of Conference

16:05 - 16:25

SCHEDULE

DAY 2 - 23/06/2022

NGON & DCI World

21 - 23 June 2022
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TIME	KEYNOTES	LOOKING FORWARD: EVOLVING NETWORKS & DATA CENTRES	NEXT GENERATION OPTICAL LONG-HAUL & SUBMARINE NETWORKS
07:00	07:15 - NGON & DCI Run	07:15 - NGON & DCI Run	07:15 - NGON & DCI Run
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12:00		12:05 - SPONSOR ADDRESS: Future-oriented All Optical Metro 12:25 - OTN to the Edge – Composing a Metro Network with Optimal TCO 12:45 - Overcoming the Obstacles to Automating Optical Network Operations	12:00 - ROUNDTABLE: SDM Optical Submarine Networks 12:40 - ROUNDTABLE
13:00	13:20 - Networking Lunch	13:20 - Networking Lunch	13:20 - Networking Lunch
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