

Welcome to the NGMN Industry Conference & Exhibition 2018

6 - 8 November 2018
JW Marriott Parq, Vancouver, Canada

5G – First Experience, Evolution & Innovation

kindly supported by 

As with the previous NGMN Industry Conference & Exhibitions you can expect:

- Gathering of world's top Operator CTO's to gain a perspective on the future of mobile broadband
- Viewpoints, insights and an outlook from Telco, IT and Vertical Industry Executives and Thought-leaders
- Latest updates, presentation and discussion of NGMN Work Programme deliverables
- Exhibition: Leading international partners with demonstrations of 5G solutions and concepts
- Networking opportunities and entertainment
- Caroline Lewko, WIP, as conference moderator

Grand opening event hosted by 

Tuesday, November 6th 2018, 6pm - 8pm

Opening remarks by Ibrahim Gedeon (TELUS)

Experience the 5G demonstrations in a relaxed environment while networking and enjoying traditional Canadian delicacies and a special performance.

NGMN would like to thank the entire TELUS team for their outstanding support and dedication with organizing the conference and exhibition!

NGMN IC&E WiFi Access

- SSD: NGMN_ICE
- Password: ngmn2018

Find the latest programme and information on the website.

<https://ice2018.ngmn.org/>

Emergency Contact

Elyse Gawley from PACE
Tel: + 1 604 379 5958

Follow the Conference at:



#NGMN_ICE2018

Conference Day 1, Wednesday, November 7th 2018

Pre-Conference Session

Session

Moderator: **Philipp Deibert** Oliver Wyman

09.00 **Communication Systems Beyond 5G** organized by WWRF

Moderator: **Sudhir Dixit** WWRF

Speakers: **Victor Leung** University of British Columbia
Matti Latva-Aho Director for 6Genesis
Javan Erfanian Bell Canada
Ashutosh Dutta Co-Chair of IEEE 5G Initiative

Starting off with a stream of presentations organised by Wireless World Research Forum (WWRF) addressing research on future communication systems (from full realisation of 5G vision to beyond 5G), with emphasis on requirements, gaps and enabling technologies.

10.00 **Canadian Entrepreneurs and Start-Ups** organized by WIP together with EDC and NRC-IRAP

Moderator: **Caroline Lewko** WIP

Speakers: **Grant Henderson** Dali Wireless
Swati Chakravarty-Marcon
Communication Components
Kyle MacDonald Mojo
Greg Wynans IoT Micro
David Woodcock Colony Networks
Keith Dalton Signal Hill Technologies
Alfred Engelhardt RCATSONE Inc.
Jeff Spencer HYAS Infosec
Hunter MacDonald Tutela Technologies

Followed by a round of pitches given by some of the brightest Canadian entrepreneurs and start-ups working in the area of IoT, Virtualization, AI & Analytics and Security invited by our cooperation partner WIP together with EDC and NRC-IRAP.

11.00 **The Future of 5G Standards** organized by ETSI

Moderator: **Christian Toche** Member of the ETSI Board

Speakers: **Atte Lansialmi** 5G ACIA
Prodip Sen Linux Foundation Networking
Luigi Licciardi 5G SA

The first release of 5G specifications has already been delivered and a more complete set is on target to be completed by the end of 2019. But how will these specifications evolve over the next 5 to 10 years? How can we be sure that we satisfy the requirements of those new industry sectors that are beginning to engage with standards bodies and work at a pace commensurate with their needs?

12.00 **Lunch Break** kindly sponsored by Rogers - Speaker: Rick Sellers

Notes

Conference Day 1, Wednesday, November 7th 2018

Conference Session

14.00 Welcome & Introduction

Conference

Moderator: **Caroline Lewko** WIP

Speaker: **Peter Meissner** NGMN Alliance

5G Business & Strategy

14.15 5G Value Proposition, Use Cases, Applications, Services

Moderator: **Caroline Lewko** WIP

Keynotes: **Eros Spadotto** TELUS

Jeff McElfresh AT&T

Jean Luc Bérubé Canadian Government

Scott Jones Canadian Centre for Cyber Security

Keynotes in this session will cover the opportunity 5G enables for the broader mobile ecosystem including business perspective, market demand, cyber security, and spectrum regulation.

16.00 Coffee Break

16.30 5G Platform Delivery

Moderator: **Safdar Mahmood** Accenture

Keynotes: **Stephen Howe** Bell Canada

Emmanuel Lugagne-Delpon Orange Labs Networks

Peter Zhou Huawei

Thomas Noren Ericsson

Volker Ziegler Nokia

Strategies for migration from 4G to 5G, enabling platforms, roadmaps, and deployment strategy from operator as well as equipment vendor perspective will be covered in this session.

17.50 5G Applications for Vertical Industries

Moderator: **Luis-Jorge Romero** ETSI

Keynotes: **Andrea Calvi** TIM

Arash Ashouriha Deutsche Telekom

Jessie Adcock City of Vancouver

Christoph Voigt Audi

Steve Maybee Edmonton International Airport

Technical challenges and requirements of 5G to enable new services for Vertical Industries, focusing on 5G Automotive, Transport, Smart Cities etc..

19.10 Evening Event

kindly sponsored by Huawei - Speaker: Peter Zhou

Notes

Conference Day 2, Thursday, November 8th 2018

5G Architecture & Technology

09.00 Building Blocks for 5G Architecture

Moderator: **Hossein Moiin** Virafon
 Keynotes: **Michael Irizarry** US Cellular
Yuhong Huang China Mobile
Sean Cai ZTE
Sam Samuel Cisco
Hassan Ahmed Affirmed Networks
Morgan Kurk CommScope
Jim Nevelle Kathrein
Geng Wu Intel

5G presents the industry with an opportunity to go in a different direction. Speakers in this session will present some of the building blocks to make this happen: Antenna Systems, Small Cells, Chipsets, Service Based Architecture.

11.05 Coffee Break

11.35 Key 5G Component – Security

Moderator: **Ibrahim Gedeon** TELUS
 Keynotes: **Jason Hart** Gemalto
Stéphane Jacquelin Idemia
Kireeti Kompella Juniper
Lee Klarich Palo Alto Networks

Security Requirements, the importance of end to end security solutions, policies, and MEC security will be presented and discussed by speakers in this session.

13.20 Lunch Break

kindly sponsored by Bell - Speaker: Bruce Rodin

Experience from Test, Trials & First Deployments

14.40 5G Test & Measurement Equipment

Moderator: **Chris Pearson** 5G Americas
 Keynotes: **Kailash Narayanan** Keysight
Anton Messmer Rohde & Schwarz
Stephen Douglas Spirent

With the mobile industry at the threshold of 5G acceleration and commercialization, mobile operators are addressing new technical requirements to realize the full potential of 5G. End-to-end 5G tests need to be executed to validate complex multi-vendor interoperability test scenarios, network architecture and functional splits. Speakers will look at at both sub 6GHz and cm-/mm-Wave spectrum, 5G NR technology, and testing impact from vertical industries.

15.30 Coffee Break

16.00 Lab Trials, Field Trials, First Deployments and User Experience

Moderator: **Philipp Deibert** Oliver Wyman
 Keynotes: **Jongkwan Park** SK Telecom
YongGyoo Lee KT
Kevin Holley BT
Karri Kuoppamaki T-Mobile US
Czar Christopher Lopez Smart Communications
Mikio Iwamura NTT DOCOMO
Gerry Flynn Verizon

Focus of this session featuring NGMN operator partners from Asia, Europe and North America will be updates on lab trials, field trials, user trials and testing. Expect fantastic news and feedback from first live deployments.

17.50 Farewell

Speakers: **Caroline Lewko** WIP
Philipp Deibert Oliver Wyman
Peter Meissner NGMN Alliance

18.00 End

Unrivalled Line-up of Speakers:

- **Jessie Adcock**
CTO, City of Vancouver
- **Hassan Ahmed**
Chairman & CEO, Affirmed Networks
- **Arash Ashourih**
SVP & Deputy CTO Deutsche Telekom
- **Jean Luc Bérubé**
President CRC, Canadian Government
- **Sean Cai**
VP & GM, ZTE
- **Andrea Calvi**
SVP Technology Evolution & Innovation, TIM
- **Swarti Chakravarty-Marcon**
VP Global Channels, CCI
- **Keith Dalton**
CEO, Signal Hill Technologies
- **Phillip Deibert**
Principal, Oliver Wyman
- **Sudhir Dixit**
WWRF
- **Stephen Douglas**
Solutions & Technical Strategy, Strategic Marketing, Spirent
- **Ashutosh Dutta**
Co-Chair of IEEE 5G Initiative, Johns Hopkins University
- **Alfred Engelhardt**
CEO, RCATSONE
- **Javan Erfanian**
Distinguished Member of Technical Staff, Bell Canada
- **Gerry Flynn**
Director Corporate Technology, Verizon
- **Ibrahim Gedeon**
CTO, TELUS
- **Jason Hart**
CTO, Gemalto
- **Grant Henderson**
CMO, Dali Wireless
- **Kevin Holley**
Director Technology Strategy & Ecosystems, BT
- **Stephen Howe**
EVP & CTO, Bell Canada
- **Michael Irizarry**
EVP & CTO, US Cellular
- **Mikio Iwamura**
Executive Research Engineer, NTT DOCOMO
- **Stéphane Jacquelin**
Director Advanced Business Line, Idemia
- **Scott Jones**
Head, Canadian Centre for Cyber Security
- **Lee Klarich**
EVP, Chief Product Officer, Palo Alto Networks
- **Kireeti Kompella**
SVP & CTO, Juniper
- **Karri Kuoppamaki**
VP Technology Development & Strategy, T-Mobile US
- **Morgan Kurk**
EVP & COO, CommScope
- **Atte Lansisalmi**
5G ACIA
- **Matti Latva-aho**
Director, 6Genesis
- **YongGyoo Lee**
SVP, Head of 5G, KT
- **Victor Leung**
Professor, University of BC
- **Caroline Lewko**
Ceo, WIP Factory
- **Luigi Licciardi**
5G SA
- **Czar Christopher Lopez**
Head of Technology Strategy, Smart Communications
- **Emmanuel Lugagne-Delpon**
SVP, Orange Labs Networks
- **Kyle MacDonald**
Head of Marketing, Mojo
- **Hunter MacDonald**
CEO, Tutela Technologies
- **Saf Mahmood**
Managing Director, Accenture
- **Steve Maybee**
VP Operations & Infrastructure, Edmonton International Airport
- **Jeff McElfresh**
President of Technology & Operations, AT&T
- **Peter Meissner**
CEO, NGMN Alliance
- **Anton Messmer**
VP Mobile Radio Testers, Rohde & Schwarz
- **Hossein Moiin**
CEO, Virafon
- **Kailash Narayanan**
VP & GM, Keysight
- **Jim Nevelle**
President & CEO, Kathrein
- **Thomas Noren**
Head of 5G Commercialization, Ericsson
- **Jongkwan Park**
SVP, Head of Network Technology R&D Center, SK Telecom
- **Chris Pearson**
President, 5G Americas
- **Bruce Rodin**
VP Wireless Networks, Bell Canada
- **Luis Jorge Romero**
Director General, ETSI
- **Sam Samuel**
CTO Mobility Business Group, Cisco
- **Rick Sellers**
President BC Region, Rogers
- **Prodip Sen**
Linus Foundation Networking
- **Eros Spadotto**
EVP Technology Strategy, TELUS
- **Jeff Spencer**
COO, Hyas Infosec
- **Christian Toche**
Member of the ETSI Board
- **Christoph Voigt**
Head of R&D Connectivity, Audi
- **David Woodcook**
VP Sales & Business Development, Colony Networks
- **Geng Wu**
Intel Fellow, Intel
- **Greg Wynans**
VP Marketing, RioT Micro
- **Huang Yuhong**
Deputy GM, China Mobile R&D
- **Peter Zhou**
CMO, Huawei
- **Volker Ziegler**
Head of 5G Leadership, Chief Architect, Nokia Mobile Networks

Exhibitors



Event Sponsors



Supporting Co-operation Partners



Media Partners



Copyright NGMN e.V. 2018

next generation mobile networks

Commercial Address:
ngmn e.V. • Großer Hasenpfad 30
60598 Frankfurt • Germany

Phone +49 69/9 07 49 98-0
Fax +49 69/9 07 49 98-41

office@ngmn.org
www.ngmn.org