

# SESSIONS

PHYSICAL - 08.31.21

BIG 5G Event

Physical Event: August 31 - September 2, 2021

Virtual Event: August 30 - September 3, 2021

Colorado Convention Center, Denver

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**More details coming soon...**

10:30am - 4:30pm

6G Summit in Collaboration with the Next G Alliance &

ATIS

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**More details coming soon...**

2:30pm - 4:30pm

Women in Telecoms Workshop

# SCHEDULE

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TIME	6G SUMMIT IN COLLABORATION WITH THE NEXT G ALLIANCE & ATIS	WOMEN IN TELECOMS WORKSHOP
10:00AM	10:30am - More details coming soon...	
11:00AM		
12:00PM		
1:00PM		
2:00PM		2:30pm - More details coming soon...

# SESSIONS

PHYSICAL - 09.01.21

BIG 5G Event

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## Chairperson's Opening Remarks – Welcome to BIG 5G!

8:40am - 8:50am

The BIG 5G Keynotes - In Person and Live Streamed

### Participants

**Phil Harvey** - Editor in Chief, Light Reading

## 5G Americas Keynote Address – State of the 5G industry

8:50am - 9:00am

The BIG 5G Keynotes - In Person and Live Streamed

- The next chapter in the 5G enterprise story
- How is the newly unlocked mid-band spectrum being utilized?
- What is the impact of 5G standalone across the entire network?

### Participants

**Chris Pearson** - President, 5G Americas

## Service Provider Keynote Address – Building 5G for all

9:00am - 9:20am

The BIG 5G Keynotes - In Person and Live Streamed

- Carving out the ultimate evolutionary path to 5G standalone
- How will 5G standalone impact customer experience?
- Deploying a nationwide 5G network that reaches all Americans
- How is 5G fuelling innovation across all industries?

### Participants

**Neville Ray** - President of Technology, T-Mobile

## Diamond Sponsor Keynote Address – Delivering a healthy return on investment from 5G infrastructure now and in the future

9:20am - 9:40am

The BIG 5G Keynotes - In Person and Live Streamed

- Low hanging monetizable fruit for operators now and in the next 5 years
- Promoting 5G as a revolutionary technology for the enterprise
- What are the opportunities beyond connectivity for the 5G consumer market?
- Laying the foundations for network slicing and the flexible monetization possibilities this will bring

## Keynote Panel Discussion – Who's leading the 5G rollout race? Evaluating the changing dynamics of the ongoing network rollouts in North America

9:40am - 10:20am

The BIG 5G Keynotes - In Person and Live Streamed

*5G network rollouts in North America are well under way, with major operators in the region having already largely laid out their standalone roadmap. But, with so many network options, technologies and deployment strategies to choose from, who is leading the region's 5G rollout?*

- An impact assessment of the Covid pandemic on 5G network rollouts in North America
- What is going to be done with newly acquired mid-band spectrum?
- What are the next steps for operators to embark on in their network rollouts?
- How much momentum is Open RAN gaining in North America? And are the expectations for Open RAN aligned with the reality?
- With the sun setting on 3G, how can operators capitalise on the newly freed up spectrum?

### Participants

**Adam Koepp** - Senior Vice President – Technology, Strategy, Architecture and Planning, Verizon

## NETWORKING & REFRESHMENT BREAK

10:20am - 11:05am

The BIG 5G Keynotes - In Person and Live Streamed

## Service Provider Keynote Address – Why the grass is greener for greenfield 5G deployments

11:05am - 11:25am

The BIG 5G Keynotes - In Person and Live Streamed

- What's the status of Dish's 5G rollout?
- Discovering the real-world benefits of Open RAN
- What learnings can other operators take away from the deployments of greenfield 5G?
- What's on the horizon for Dish?

### Participants

**Marc Rouanne** - Executive Vice President, Chief Network Officer, DISH Wireless

## Keynote Panel Discussion – The enterprise perspective: What do end-users want, need and expect from 5G services?

11:25am - 12:05pm

The BIG 5G Keynotes - In Person and Live Streamed

*With 5G being hailed as a transformative technology for the enterprise, we take a moment to ask perhaps the most important question... So what?! Are enterprises as interested in 5G as they should be and how can the telecoms industry support enterprise customers in their digital transformations?*

- What do enterprises expect from 5G? Are expectations aligned with reality?
- Fitting 5G into wider enterprise digital transformations
- How has Covid impacted enterprise digital transformation?
- A look into the B2B2C opportunities 5G presents for enterprises
- What will motivate enterprises to invest in deploying their own private networks?
- How can operators support enterprises in this process?
- Closing the technical 'language barrier' between telcos and enterprises

### Participants

**Ken Lovell** - Senior Vice President, ShotLink Business Operations, PGA TOUR

**Tyler Svitak** - Executive Director, Colorado Smart Cities Alliance

**Moderator: Chris Pearson** - President, 5G Americas

## Super Platinum Sponsor Keynote Address – Embracing cloud as an integral component of 5G networks

12:05pm - 12:25pm

The BIG 5G Keynotes - In Person and Live Streamed

- How swiftly can telcos transition to operate as fully cloud native organizations?
  - Understanding the role public cloud plays in this process and beyond
- Is the software defined nature of modern networks speeding up the deployment of 5G?
- Why cloud native goes hand in hand with network slicing
- Aligning 5G networks with BSS & OSS

## Service Provider Keynote Address – It's all about the experience: Transforming the everyday with 5G innovation

12:25pm - 12:45pm

The BIG 5G Keynotes - In Person and Live Streamed

- What do we mean by a 5G experience and why are these so important?
- Top use cases: Delivering new transformative experiences for consumer and enterprise customers
- How is 5G helping to close the digital divide?

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## NETWORKING LUNCH

12:45pm - 2:15pm

The BIG 5G Keynotes - In Person and Live Streamed

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## Analyst Track Intro

2:15pm - 2:25pm

Private 5G Networks

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## Analyst Track Intro

2:15pm - 2:25pm

5G Core

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## Analyst Track Intro

2:15pm - 2:25pm

Open RAN

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## Analyst Track Intro

2:15pm - 2:25pm

Consumer 5G Applications

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## Analyst Track Intro

2:15pm - 2:25pm

5G Transport

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## Enterprise Presentation – Tracking birdies, pars and bogeys with the help of CBRS

2:25pm - 2:40pm

Private 5G Networks

- Key takeaways from testing CBRS over the past couple of years
- Which applications and use cases have benefited most from CBRS connectivity?
- Transitioning away from Wi-Fi to make CBRS the primary connectivity solution for ShotLink
- What's in the pipeline in terms of future innovation?

## Participants

**Ken Lovell** - Senior Vice President, ShotLink Business Operations, PGA TOUR

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## Service Provider Presentation – Fast-tracking 5G core deployment on the road to standalone

2:25pm - 2:40pm

5G Core

- The virtualization of the mobile core is well underway, but what does this mean for the wider network?
- Adapt, improvise, overcome: What have we learnt to date from the ongoing standalone rollout?
- What does the 5G standalone core unlock from a commercial perspective?

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## Service Provider Presentation – What are the next steps, following initial working trails of Open RAN?

2:25pm - 2:40pm

Open RAN

- Reviewing first steps in Open RAN trials
  - What new network capabilities are introduced with Open RAN?
  - Maintaining excellent customer experience throughout deployment
  - Accelerating widescale Open RAN deployments
- 

## Service Provider Presentation – What do gamers want and can 5G meet their needs?

2:25pm - 2:40pm

Consumer 5G Applications

- What can 5G give gamers that their broadband can't?
  - What characteristics would be included in a consumer gaming slice?
  - Does 5G have the capability to transform VR gaming into a next level experience?
  - Picking your pricing point: Will consumers pay more for an enhanced 5G service?
- 

## Service Provider Presentation – Aligning transport networks with modernized RAN architectures

2:25pm - 2:40pm

5G Transport

- How are transport networks adapting to connect the various RAN architectures without sacrificing RAN performance?
- What are the transport implications of Open RAN?
- How does your choice of spectrum impact your options for transport?

## Participants

**Khaled Elbehiery** - Senior Director, Charter Communications

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## Platinum Sponsor Presentation – Navigating the complexities and potential pitfalls of private networks

2:40pm - 2:55pm

Private 5G Networks

- A closer look at the functional architecture for private networks
- Future proofing LTE private networks to be 5G ready
- Balancing the benefits of 5G with additional IT management complexities that it brings

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## Platinum Sponsor Presentation – Building a services friendly 5G Core for flexible and real-time charging in the 5G era

2:40pm - 2:55pm

5G Core

- 5G brings network and business systems closer together than ever before
  - How must charging systems evolve to meet the changing needs of the telco business model?
  - What are the benefits of aligning your monetization and charging strategies as early as possible?
- 

## Platinum Sponsor Presentation – Uncovering network agility, efficiency and scalability with Open RAN

2:40pm - 2:55pm

Open RAN

- Automation is key to maximize the benefits of Open RAN
  - Why is the shift to a DevOps cloud centric approach crucial for the successful rollout of Open RAN infrastructure?
  - How much more complexity is added to network slicing in an Open RAN environment?
- 

## Platinum Sponsor Presentation – Following initial signs of success, how great of an opportunity is FWA for 5G consumer services?

2:40pm - 2:55pm

Consumer 5G Applications

- How can FWA help to close the digital divide between urban and rural areas?
  - What sort of ROI can operators expect from FWA?
  - Differentiating your FWA offering
- 

## Platinum Sponsor Presentation – How should operators plot the path to attain flexible fronthaul functionality?

2:40pm - 2:55pm

5G Transport

- Migrating fronthaul from CPRI to eCPRI
- What are the key considerations for operators as they look to enable packetized fronthaul?
- How can operators successfully manage the synchronization of fronthaul?

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## Panel Discussion – An in depth break down of the technical requirements for effective private network deployments

2:55pm - 3:40pm

Private 5G Networks

- LTE vs 5G: What are modern private networks capable of?
- Tailoring connectivity solutions to specific customer needs: How customizable are private networks?
- How might the business case impact the functional architecture of private 5G networks?
- Ensuring infrastructure and IoT device deployment timelines are aligned for the smooth launch of fully functional private networks
- Bolstering network security: Which models offer the highest levels of security for enterprises?

### Participants

**Peri Subrahmanya** - Principal Engineer, Operations Platforms, Bayer

**Charles Stallings** - Senior Manager, Innovative Product Development & Incubation, Lumen

**Richard Piasentin** - Chief Marketing & Chief Strategy Officer, Accedian

**Lisa Guess** - Senior Vice President, Global Sales Engineering, Cradlepoint

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## Panel Discussion – As North American operators move towards 5G standalone, what are the key technical and operational requirements for 5G Core success?

2:55pm - 3:40pm

5G Core

- Validating the various 5G core deployment strategies and architectures
- How complex is the integration of 4G and 5G core networks?
- What are the infrastructure choices for cloud native 5G core?
- With standalone fast becoming a reality at scale, when should we expect network slicing to be operationally viable?

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## Panel Discussion – Looking past the hype: What's the realistic outlook for Open RAN in North America?

2:55pm - 3:40pm

Open RAN

- What is holding North American operators back from going all-in on Open RAN?
- Beyond fronthaul, what other RAN interfaces need opening and why?
- What are vendors doing to ensure interoperability is achieved and how are they doing this?
- With so many perspectives being put forward on Open RAN, what are the prevailing theories and what is the industry still undecided upon?
- Should regulators be doing more to push the Open RAN agenda?

### Participants

**Antoine Sirois** - Director of Product Management, Kontron

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## Panel Discussion – Which 5G business models should telcos implement to change the game for consumer revenues and services?

2:55pm - 3:40pm

Consumer 5G Applications

- How can operators innovate and reinvigorate their traditional mobile pricing models when it comes to 5G?
- How can the industry capitalise on the convergence of WiFi & 5G within the home?
- Looking beyond connectivity: What opportunities are operators considering when it comes to consumer markets?
- How important are partnerships and B2B2X business models for the delivery of 5G consumer services?
- How is 5G impacting the MVNO market?

### Participants

**Marc Price** - Global Chief Technology Officer, MATRIX Software

**Oz Yildirim** - EVP & GM Americas Business Unit, Airties

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## Panel Discussion – How must the transport layer evolve to support the smooth delivery of new 5G services?

2:55pm - 3:40pm

5G Transport

- Are operators set up to meet the greatly increased capacity demands on their transport networks?
- How are operators looking to build their transport networks, with the advanced 5G services that they plan to offer in mind?
- Challenges and opportunities for wholesale operators
- Embracing open initiatives and the newest innovations for 5G transport

### Participants

**Jennifer Andreoli-Fang** - Distinguished Technologist, CableLabs

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## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

Private 5G Networks

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## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

5G Core

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## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

Open RAN

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## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

Consumer 5G Applications

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5G Transport

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## Enterprise Presentation – Never mind the innovations of tomorrow! How are private networks making smart manufacturing a reality today?

4:25pm - 4:40pm

Private 5G Networks

- What makes a private network the optimal connectivity solution for smart factories?
- The short- and long-term vision for the utilization of private networks in manufacturing
- Integrating IoT devices into a private network environment

### Participants

**Kiel Ronning** - Manager of Manufacturing Controls & Analytics, John Deere

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## Service Provider Fireside Chat – What does 5G standalone really mean for the future of the network?

4:25pm - 4:40pm

5G Core

- What new capabilities does standalone unlock for 5G networks?
  - How can operators quickly and efficiently scale 5G standalone coverage to take full advantage of its benefits?
  - How crucial is it to continue to deploy NSA alongside SA infrastructure? What role can cloud native platforms play in this regard?
- 

## Service Provider Fireside Chat – Overcoming the obstacles on the road to the Open RAN utopia

4:25pm - 4:40pm

Open RAN

- Just how much more complex is Open RAN deployment and operation?
  - How much of a concern is vendor interoperability for operators? And how bought into Open RAN are major operators?
  - When working with multiple vendors, who will take responsibility when a problem arises?
- 

## Service Provider Fireside Chat – Enhancing the fan experience with 5G

4:25pm - 4:40pm

Consumer 5G Applications

- How are operators and broadcasting partnering to make redefine the fan experience today?
  - A lean-in experience: Enabling fan to view more than just the game
  - How can your location impact your personalised fan experience?
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## Service Provider Fireside Chat – Starting with Spectrum: What characterizes the optimal transport decisions for each band?

4:25pm - 4:40pm

5G Transport

- Given that the need to expand 5G coverage is a key priority, how are operators upgrading transport networks to support lower and medium capacity sites?
  - Laying the transport foundations to meet the needs of higher band frequencies
  - Harmonising the multi-pronged approach that operators must take to meet the varying spectrum demands of 5G
- 

## Gold Sponsor Presentation – Which industry verticals are best placed to benefit from private network deployment?

4:40pm - 4:55pm

Private 5G Networks

*Private network use cases apply to a wide range of industry verticals, from utilities to retail and healthcare to manufacturing. But why should certain verticals be paying particularly close attention to the prospect of private LTE & 5G?*

- How great is the private network opportunity for the entire ecosystem?
  - 5G is catalysing the demands for customizable connectivity
  - Highlighting the similar characteristics and demands of vertical industries that could benefit from private networks
- 

## Gold Sponsor Presentation – Secure the core! A closer look into how operators must protect the heart of their 5G networks

4:40pm - 4:55pm

5G Core

- How can operators overcome the key challenges of integrating automation and security into 5G Core?
  - Why should operators adopt a broad range of security specifications for their core architecture? And what is the ideal implementation timeline for such specifications?
  - Streamlining security enforcement with key management
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## Gold Sponsor Presentation – How does the RIC provide the much-needed brains to underpin effective Open RAN deployment?

4:40pm - 4:55pm

Open RAN

- What exactly does the RIC provide and why do operators need its real-time and non-real time functionality?
  - Optimising the RIC for your specific Open RAN strategy and changing network requirements
  - How are RIC platforms helping to strengthen a multi-vendor ecosystem for the disaggregation of RAN?
- 

## Gold Sponsor Presentation – How will 5G enabled RCS empower operators to regain control in the consumer messaging space?

4:40pm - 4:55pm

Consumer 5G Applications

- What can 5G RCS offer that OTT messaging services can't?
  - What steps can operators take to ensure RCS becomes the go-to for consumer messaging?
  - Enhance the quality of your B2C interactions
- 

## Super Platinum Sponsor Presentation – How does network slicing impact the transport layer?

4:40pm - 4:55pm

5G Transport

- Integrating transport into end-to-end slicing of 5G networks
  - What does your choice of soft or hard network slicing mean from a backhaul perspective?
  - Utilizing SDN and automation to unlock new levels of agility for the transport layer
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### Participants

**Constantine Polychronopolous** - Vice President, 5G & Telco Cloud, Juniper Networks

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## Panel Discussion – Partnerships, pricing and possession: Debating the optimal private network business model

4:55pm - 5:40pm

Private 5G Networks

- Strengthening the proposition for private networks
- The value and feasibility of private networks: Who pays who? And what services should end users be paying for?
- What role are operators going to play in the evolving private network landscape?
- Assessing the importance of ecosystem partnerships to deliver compelling private network solutions
- What sort of return on investment can we expect from private networks in terms of operational costs, productivity, and security?

### Participants

**Mirko Voltolini** - Vice President Strategy & Innovation, Colt Technology Services

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## Panel Discussion – The new kids on the block: What do the new crop of non-traditional 5G Core vendors bring to the table?

4:55pm - 5:40pm

5G Core

- What can disruptive vendors offer operators that they have not previously had access to?
- How is the virtualization of the core and the move to standalone driving the need for new blood in the vendor ecosystem?
- How are operators adapting to working with new market players?
- A closer look at the potential new business models to pay for virtualised core equipment

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## Panel Discussion – Greenfield vs. brownfield: Understanding the requirements differing for Open RAN scenarios

4:55pm - 5:40pm

Open RAN

- How can Open RAN be deployed from a brownfield and greenfield perspective?
- Can brownfield Open RAN really compete with greenfield deployments?
- To what extent is brownfield Open RAN a rapidly scalable option? And how much investment is required to make this a reality?
- What can both brownfield and greenfield operators learn from one another?
- Should governments and regulators be doing more to push the Open RAN agenda?

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## Panel Discussions – Should we be concerned about a lack of consumer interest in 5G?

4:55pm - 5:40pm

Consumer 5G Applications

- Who is the 5G consumer and what do they want from their 5G service?
- How are operators responding to the evolving buying behaviour of consumers?
- To what extent will next gen smartphone adoption drive consumer demand for 5G?
- How can operators look to more effectively market 5G to consumers?
- Will consumers pay more for 5G?

### Participants

**Gary Shapiro** - President & CEO, Consumer Technology Association

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## Panel Discussion: A closer look at the disaggregation of transport networks

4:55pm - 5:40pm

5G Transport

- What's driving disaggregation and to what extent is disaggregation needed for transport?
- How great of an impact would disaggregation have on the more established architectures of transport networks?
- How challenging could the disaggregation of 5G transport be from both a deployment and operational perspective?
- A closer look into the work of interop communities to open transport networks

### Participants

**Art Nichols** - Vice President, Architecture and Technology, Windstream

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## CLOSE OF TRACK

5:40pm - 5:45pm

Private 5G Networks

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## CLOSE OF TRACK

5:40pm - 5:45pm

5G Core

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## CLOSE OF TRACK

5:40pm - 5:45pm

Open RAN

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## CLOSE OF TRACK

5:40pm - 5:45pm

Consumer 5G Applications

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## CLOSE OF TRACK

5:40pm - 5:45pm

5G Transport

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8:00AM						<p><b>8:40am</b> - Chairperson's Opening Remarks – Welcome to BIG 5G!</p> <p><b>8:50am</b> - 5G Americas Keynote Address – State of the 5G industry</p>
9:00AM						<p><b>9:00am</b> - Service Provider Keynote Address – Building 5G for all</p> <p><b>9:20am</b> - Diamond Sponsor Keynote Address – Delivering a healthy return on investment from 5G infrastructure now and in the future</p> <p><b>9:40am</b> - Keynote Panel Discussion – Who's leading the 5G rollout race? Evaluating the changing dynamics of the ongoing network rollouts in North America</p>
10:00AM						<p><b>10:20am</b> - NETWORKING &amp; REFRESHMENT BREAK</p>



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12:00PM						<p><b>12:05pm</b> - Super Platinum Sponsor Keynote Address – Embracing cloud as an integral component of 5G networks</p> <p><b>12:25pm</b> - Service Provider Keynote Address – It's all about the experience: Transforming the everyday with 5G innovation</p> <p><b>12:45pm</b> - NETWORKING LUNCH</p>
1:00PM						

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<b>3:00PM</b>	<b>3:40pm</b> - NETWORKING & REFRESHMENT BREAK	<b>3:40pm</b> - NETWORKING & REFRESHMENT BREAK	<b>3:40pm</b> - NETWORKING & REFRESHMENT BREAK	<b>3:40pm</b> - NETWORKING & REFRESHMENT BREAK	<b>3:40pm</b> - NETWORKING & REFRESHMENT BREAK	

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<b>4:00PM</b>	<p><b>4:25pm</b> - Service Provider Fire-side Chat – What does 5G standalone really mean for the future of the network?</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – Secure the core! A closer look into how operators must protect the heart of their 5G networks</p> <p><b>4:55pm</b> - Panel Discussion – The new kids on the block: What do the new crop of non-traditional 5G Core vendors bring to the table?</p>	<p><b>4:25pm</b> - Service Provider Fire-side Chat – Starting with Spectrum: What characterizes the optimal transport decisions for each band?</p> <p><b>4:40pm</b> - Super Platinum Sponsor Presentation – How does network slicing impact the transport layer?</p> <p><b>4:55pm</b> - Panel Discussion: A closer look at the disaggregation of transport networks</p>	<p><b>4:25pm</b> - Service Provider Fire-side Chat – Enhancing the fan experience with 5G</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – How will 5G enabled RCS empower operators to regaining control in the consumer messaging space?</p> <p><b>4:55pm</b> - Panel Discussions – Should we be concerned about a lack of consumer interest in 5G?</p>	<p><b>4:25pm</b> - Service Provider Fire-side Chat – Overcoming the obstacles on the road to the Open RAN utopia</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – How does the RIC provide the much-needed brains to underpin effective Open RAN deployment?</p> <p><b>4:55pm</b> - Panel Discussion – Greenfield vs. brownfield: Understanding the requirements differing for Open RAN scenarios</p>	<p><b>4:25pm</b> - Enterprise Presentation – Never mind the innovations of tomorrow! How are private networks making smart manufacturing a reality today?</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – Which industry verticals are best placed to benefit from private network deployment?</p> <p><b>4:55pm</b> - Panel Discussion – Partnerships, pricing and possession: Debating the optimal private network business model</p>	
<b>5:00PM</b>	<b>5:40pm</b> - CLOSE OF TRACK	<b>5:40pm</b> - CLOSE OF TRACK	<b>5:40pm</b> - CLOSE OF TRACK	<b>5:40pm</b> - CLOSE OF TRACK	<b>5:40pm</b> - CLOSE OF TRACK	

# SESSIONS

PHYSICAL - 09.02.21

BIG 5G Event

Physical Event: August 31 - September 2, 2021

Virtual Event: August 30 - September 3, 2021

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## Chairperson's Opening Remarks – Welcome back to BIG 5G!

8:55am - 9:00am

The BIG 5G Keynotes - In Person and Live Streamed

### Participants

**Mike Dano** - Editorial Director, 5G & Mobile Strategies, Light Reading

## Service Provider/Enterprise Keynote Fireside Chat – Private Networks Use Case: What sets a 5G enabled shipyard apart?

9:00am - 9:20am

The BIG 5G Keynotes - In Person and Live Streamed

- How is 5G transforming complex manufacturing processes?
- What applications and devices are currently being deployed within manufacturing private networks?
- Reviewing key takeaways from the 5G site testing to date
- Continuously optimizing the network to suit end-user requirements

## Super Platinum Sponsor Keynote Address – On the edge of glory: Why is edge computing the cornerstone for delivering the full potential of 5G services?

9:20am - 9:40am

The BIG 5G Keynotes - In Person and Live Streamed

- What constitutes a winning edge strategy when it comes to 5G?
- The 5G ecosystem: How are telcos and cloud providers increasingly innovating together at the edge?
- Seamlessly integrating the 5G network edge and enterprise edge to accelerate new digital possibilities

### Participants

**Todd Krautkremer** - Chief Marketing Officer, Cradlepoint

## Keynote Panel Discussion – Solving the curious case of 5G monetization ??

9:40am - 10:20am

The BIG 5G Keynotes - In Person and Live Streamed

*5G is set to revolutionize the way the world works and could open up a myriad of revenue-generating opportunities for operators now and even more so in the future. However, the conundrum of how 5G will be effectively monetized is far from an open-and-shut case, with many questions still left unanswered and monetization strategies still to be defined. Can our panel of Sherlocks solve the mystery, as they investigate and shed some light on how operators make the most of the 5G opportunity? The game is afoot!*

- What is the business case for 5G?
- What 5G business models are emerging and how might we expect these to evolve in the coming years?
- How can operators look to differentiate their 5G offering from their competitors?
- With private 5G emerging as a key early use case, should operators play an important role both in the deployment and operational management of such networks?

### Participants

**William Stovall** - Vice President of Mobility & IoT, AT&T

**Todd Krautkremer** - Chief Marketing Officer, Cradlepoint

## Service Provider Keynote Address – Integrating cellular into the established business models of cable companies

10:20am - 10:40am

The BIG 5G Keynotes - In Person and Live Streamed

- Examining the potential benefits for cable MVNOs in the 5G era
- Why did cable companies largely shy away from the C-band auction?
- What is the outlook for video distribution in the year to come?

### Participants

**Steve Krom** - Senior Vice President, West Division, Comcast Cable

## NETWORKING & REFRESHMENT BREAK

10:40am - 11:25am

The BIG 5G Keynotes - In Person and Live Streamed

## Super Platinum Sponsor Keynote Address – How can 5G enhance our lives in a post Covid world?

11:25am - 11:45am

The BIG 5G Keynotes - In Person and Live Streamed

- What has the pandemic meant for 5G over the past couple of years?
- Will the Covid pandemic continue to shape the future of 5G?
- A closer look at new unexpected use cases to emerge off the back of the pandemic
- How can the telecoms industry take the lead in making the world a better place?

### Participants

**Raj Yavatkar** - Chief Technology Officer, Juniper Networks

## Service Provider Keynote – Beyond 5G: Working to Close the Digital Divide in Rural America

11:45am - 12:05pm

The BIG 5G Keynotes - In Person and Live Streamed

*With rural communities increasingly concerned about being left behind, 5G deployment offers a strategic opportunity for operators to take the lead in closing the nation's digital divide. This will require operators to focus beyond 5G deployment and think critically about how they can improve device access and affordability, especially for use in education. Right now, serving rural communities can cost up to three-times more than urban locations. For this reason, the industry and the United States government need to work strategically to offset the cost of serving rural populations. UScellular's chief technology officer, Mike Irizarry discusses how, with a commitment to collaboration and outside-the-box thinking, operators can ensure 5G and enhanced network technology will support accessibility for rural America.*

### Participants

**Mike Irizarry** - Chief Technology Officer, UScellular

## Super Platinum Sponsor Keynote Address – What stands private networks apart as such a compelling 5G use case?

12:05pm - 12:25pm

The BIG 5G Keynotes - In Person and Live Streamed

- What can LTE private networks do today and how will 5G continue to modernize enterprises?
- How has CBRS unlocked the private network opportunity in the US?
- Meeting the specific needs of differing industry verticals with tailored connectivity solutions

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## Service Provider Keynote – The vital role that edge computing now plays with 5G

12:25pm - 12:45pm

The BIG 5G Keynotes - In Person and Live Streamed

- Combining fibre and 5G networks for more flexible and reliable connectivity
- How does the right edge platform enable enterprises build, manage, and scale applications across distributed environments?
- Mobilizing enterprise developers to unlock the next wave of digital innovations

### Participants

**Paul Savill** - Senior Vice President, Product Management & Services, Lumen

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## NETWORKING LUNCH

12:45pm - 2:15pm

The BIG 5G Keynotes - In Person and Live Streamed

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## Analyst Track Intro

2:15pm - 2:25pm

Enterprise 5G Applications

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## Analyst Track Intro

2:15pm - 2:25pm

Cloud Native

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## Analyst Track Intro

2:15pm - 2:25pm

Network Modernization & Open RAN

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## Analyst Track Intro

2:15pm - 2:25pm

The Edge

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## Analyst Track Intro

2:15pm - 2:25pm

AI & Network Automation

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## Enterprise Fireside Chat – Making a difference: How can 5G help to save lives by redefining the healthcare industry?

2:25pm - 2:40pm

Enterprise 5G Applications

- To what extent has Covid inhibited innovation within the healthcare industry?
- Weighing up the benefits of 5G against WiFi 6 to deliver new healthcare workflows
- Wearable, diagnostics, and remote patient care: What use cases are being considered through the 5G lens?

### Participants

**Kris Kline** - Principal Network Strategy, Chief Digital Office, Kaiser Permanente

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## Service Provider Presentation – Mind the cloud native gap: Where are we now and where do we need to get to?

2:25pm - 2:40pm

Cloud Native

- How and where are cloud native technologies being deployed and tested in the network?
- Key takeaways from the cloud native journey to date
- Where are the gaps in cloud native development that telcos still need to address?
- Transitioning the workforce to DevOps

### Participants

**Derek Peterson** - Chief Technology Officer, Boingo Wireless

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## Service Provider Presentation – Developing the neural host ecosystem

2:25pm - 2:40pm

Network Modernization & Open RAN

- What are the key technology requirements for neutral hosted networks?
- Hosting multiple MNOs to enhance their connectivity reach
- Delivering effective edge compute capabilities to facilitate the modern role of MNOs

### Participants

**Mirko Voltolini** - Vice President Strategy & Innovation, Colt Technology Services

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## Service Provider Fireside Chat – Constructing and monetizing the telco edge

2:25pm - 2:40pm

The Edge

- Modernizing network functionality to move to a more microservices, containerized approach
- Identifying the edge applications that offer greatest commercial potential
- How are telcos engaging enterprise, developer and integrator communities on the edge opportunity?

### Participants

**Beth Cohen** - SDN Product Strategist, DMTS, Verizon

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## Service Provider Presentation – AI & 5G: The perfect combo to power the killer apps of tomorrow

2:25pm - 2:40pm

AI & Network Automation

- A closer look at the typical scenarios of AI and automation throughout 5G networks
- What characteristics do 5G networks need to be able to effectively support AI applications?
- The enterprise play: How can 5G connectivity accelerate enterprise adoption of AI powered applications?

### Participants

**Nada Golmie** - Chief, Wireless Networks Division, National Institute of Standards and Technology

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## Platinum Sponsor Presentation – Deploying enterprise-friendly 5G networks for a service led future

2:40pm - 2:55pm

Enterprise 5G Applications

- Back to basics: What does the 5G Core and standalone 5G actually mean for enterprises?
  - Delivering a robust indoor coverage proposition to provide the groundwork for a multitude of vertical use cases
  - Preparing for co-innovation with the industry
- 

## Platinum Sponsor Presentation – Solving the 5G densification puzzle with beamforming and mMIMO

2:40pm - 2:55pm

Cloud Native

- Make to make most of your 5G mid-band spectrum: How are operators innovating to deliver outstanding levels of capacity and coverage?
  - Enhancing customer experience with high-performance mMIMO
  - Overcoming key beamforming challenges
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## Super Platinum Sponsor Presentation – Topic to be confirmed...

2:40pm - 2:55pm

Network Modernization & Open RAN

### Participants

**Constantine Polychronopolous** - Vice President, 5G & Telco Cloud, Juniper Networks

## Platinum Sponsor Presentation – How (and why) are telcos and hyperscalers are working together at the edge?

2:40pm - 2:55pm

The Edge

- Attracting an engaged developer ecosystem to leverage 5G for edge applications
- As operators increasingly work with hyperscalers, what can both players learn from one another to make the most of these partnerships?
- How will end users benefit from these partnerships?

## Platinum Sponsor Presentation – Advancing 5G network security with AI & ML

2:40pm - 2:55pm

AI & Network Automation

- How can operators feel confident in their network security, as they become increasingly reliant on software?
- Developing robust security frameworks to offer additional protection for AI models that power the network
- Future proofing 5G networks against potential security threats

## Panel Discussion – What makes 5G networks tailor-made for enterprise customers?

2:55pm - 3:40pm

Enterprise 5G Applications

- Do enterprises currently consider 5G as a key component of digital transformation? How can we boost enterprise interest levels?
- Which verticals are best positioned to benefit from 5G?
- A closer look at the natural synergy between cloud architecture and 5G?
- What does 5G and the edge mean for developers?
- How long will enterprises have to wait to gain access to a tailored network slice?

### Participants

**Jason Inskip** - Director, 5G Center of Excellence, AT&T

## Panel Discussion – Get your head in the clouds! To what extent is cloud native progressively defining every facet of 5G?

2:55pm - 3:40pm

Cloud Native

- What is the current state of cloud in North American telcos?
- Considering the differing uses of public, private and hybrid cloud for 5G
- How can cloud native be used to simultaneously improve network functionality and make enterprise services more readily available?
- Differentiating telco cloud services from traditional cloud services
- How can telecom operators successfully redefine their role via the move towards a software driven approach?

### Participants

**Niray Kundu** - Distinguished Engineer, Verizon

**Amir Rajwani** - Chief Operating Officer, Limitless Mobile LLC

## Panel Discussion – ? Cut through the commotion of network slicing

2:55pm - 3:40pm

Network Modernization & Open RAN

- How are operators laying the foundations for network slicing in the future?
- When can we realistically expect network slicing at scale?
- How much complexity does Open RAN add to the network slicing riddle?
- Will enterprises prefer private networks over network slicing? What will influence their decision-making process?

## Panel Discussion – How is edge computing helping to innovate and redefine established telco business models?

2:55pm - 3:40pm

The Edge

- Pioneering new standalone 5G business models at the edge
- Changing telco mindsets: Should edge processing and compute rather than pure connectivity embody the future of 5G?
- Why are expert partnerships so crucial for the both the technical and commercial success of 5G?
- What changes are required for developers to more seriously turn their attentions to working at the edge?

### Participants

**Jim Brisimitzis** - Founder and General Partner, 5G Open Innovation Lab

## Panel Discussion – To what extent will AI/ML improve and revamp customer experience in the 5G era?

2:55pm - 3:40pm

AI & Network Automation

- How crucial is the deployment of AI/ML to underpin high quality customer experience and engagement?
- How can telcos refocus customer experience with AI and data-driven insight to reduce the risk of churn?
- Utilizing AI to help predict and optimize network performance in real-time
- Delivering a personalized customer experience

### Participants

**Amy LaFebre** - Executive Director, Network Systems, Verizon

**Jeremiah Morrow** - Senior Industry Product Marketing Manager, Vertica

## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

Enterprise 5G Applications

## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

Cloud Native

## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

Network Modernization & Open RAN

## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

The Edge

## NETWORKING & REFRESHMENT BREAK

3:40pm - 4:25pm

AI & Network Automation

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## Public Safety Presentation – Saving lives in emergency situations with the support of 5G

4:25pm - 4:55pm

Enterprise 5G Applications

- Considering the current role that technology plays to improve public safety
- How can 5G connectivity enhance the existing capabilities public safety applications?
- Utilizing the speed and low latency of 5G to deliver the first responder apps of the future
- The importance of guaranteeing high network availability and reliability for first responders

### Participants

**Ed Mills** - Public Safety Engagement & Technology Solutions Manager, Colorado Governor's Office of Information Technology

**Jonathan Fischer** - Vice President, Carrier Business Development, Cradlepoint

## Service Provider Fireside Chat – Reinforcing your network security for cloud native 5G infrastructure

4:25pm - 4:40pm

Cloud Native

- To what extent are software driven 5G networks more vulnerable?
- 5G networks require cloud native containerized security
- What do proactive security measures look like for 5G?
- Integrating a zero-trust approach to protect the network from end-to-end

### Participants

**Sanjay Macwan** - CISO & SVP, Engineering & Networks, Vonage

## Service Provider Presentation – Maximizing the efficiency of network field operations for 5G

4:25pm - 4:40pm

Network Modernization & Open RAN

- The importance of embracing virtualization and automation
- What tools and applications are required to fully enable zero touch?
- Saving time and money by avoiding dispatch for network operations
- Considering culture: How do you take staff and partners on the journey with you to embrace agile practices?

### Participants

**Sankaran Ramanathan** - Executive Director – Network Systems Field Operations, Verizon

## Service Provider Presentation – Touchless travel case study: Implementing real time applications at the edge

4:25pm - 4:40pm

The Edge

- What is touchless travel and why is this set to become the industry standard?
- Examining the technology and deployment options for a multitude of touchless use cases
- How can airports increasingly capitalize on real-time benefits of MEC?

### Participants

**Danielle Aiello** - Vice President of Account Management, Boingo Wireless

## Service Provider Fireside Chat – Can 5G networks manage themselves?

4:25pm - 4:40pm

AI & Network Automation

- The evolution and improvement of network analytics from Big Data to modern AI tools
- What does it take to enable predictive decision making for the optimization of 5G networks?
- How will AI improve the efficiency and sustainability of 5G networks?

## Gold Sponsor Presentation – Transforming telco BSS & OSS to be 5G ready

4:40pm - 4:55pm

Cloud Native

- Why is cloud native OSS/BSS now more crucial than ever?
- How must OSS/BSS evolve to effectively operate across both the physical and virtualized domains of network?
- Coupling networking planning and optimization with OSS/BSS

## Gold Sponsor Presentation – What role will DSS have to play beyond an initial acceleration of 5G rollouts?

4:40pm - 4:55pm

Network Modernization & Open RAN

- To what extent is DSS currently accelerating 5G rollouts across North America?
- How is Open RAN making it easier for 5G networks to support DSS?
- What is the long-term outlook for DSS and how can operators capitalize on the technology's potential?

## Gold Sponsor Presentation – Why do private networks need the benefits of edge computing to meet the needs of the enterprise?

4:40pm - 4:55pm

The Edge

- A natural partnership to deliver new low latency use cases and help manage bandwidth
- How can strategically positioned edge infrastructure help to customise and fine tune private network deployments?
- Telcos are in a strong position to offer private network solutions in conjunction with edge computing

## Gold Sponsor Presentation – Automating and orchestrating end-to-end network slicing

4:40pm - 4:55pm

AI & Network Automation

- Where are operators on their network slicing roadmaps?
- Why is automation and orchestration so key for agile 5G network slicing?
- Core, Transport and RAN: Breaking down slicing across the differing layers of the network

## Panel Discussion – Can we expect a noteworthy return on investment for V2X services within the next 5 years?

4:55pm - 5:40pm

Enterprise 5G Applications

*Much of the hype around V2X services focus on revolutionary services, such as autonomous driving, but this is arguably still a number of years away from becoming a mainstream technology. So, what about the short- to medium-term V2X opportunities? In this panel, we will explore where operators and OEMs alike might start to see ROI from their V2X investments.*

- Are there monetizable V2X services available now?
- What's been the initial takeaways from robotaxis and autonomous shuttle deployments?
- Reviewing potential business models to V2X services
- How can smartphone's play a pivotal role in rolling out V2X applications at scale?

### Participants

**Jyoti Sharma** - Manager - Technology, Strategy, Architecture & Planning, Verizon

**Anil Rachakonda** - Vice President, co-pace, Continental Automotive

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## Panel Discussion – New vendors, new partners and new competitors: A closer inspection of the telco cloud ecosystem

4:55pm - 5:40pm

Cloud Native

- Just how much has the vendor ecosystem changed in the last year or so?
- How are movements like Open Source and Open RAN driving change?
- Adapting from the traditional hardware mentality of telcos to embrace software and the move to work with cloud and software vendors
- How important is the forging of new partnerships for the ultimate success of 5G and rollout of cloud native services?
- What can telcos learn from working with cloud service providers?

### Participants

**Nathan Sutter** - Director of Network Operations and Engineering , Nex-Tech Wireless

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## Panel Discussion – A deep dive into the argument for network sharing in North America

4:55pm - 5:40pm

Network Modernization & Open RAN

- To what extent is network sharing a necessity for the success of 5G?
  - What is needed to make network sharing a reality? Is there currently enough focus from the ecosystem on this?
  - Validating the benefits of tower-sharing
  - What could network sharing potentially mean for tier 2 & 3 operators?
- 

## Panel Discussion – 5G or the edge: Which is set to throw open the doors to the promised land of transformative, next-gen applications?

4:55pm - 5:40pm

The Edge

- To what extent is the success of 5G dependent on the success of edge computing?
- How crucial is edge computing for the effective delivery of 5G applications and services?
- What is the relationship between edge and 5G when it comes to Industry 4.0?
- How are carriers making money on MEC right now and how can we expect this to evolve over the coming years?
- What does this mean for the business architecture for the edge?

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## Panel Discussion – How vulnerable are 5G networks and is enough being done to secure them during the rollouts?

4:55pm - 5:40pm

AI & Network Automation

- Are 5G networks more or less secure compared to previous generations of cellular technology?
- How are operators building security into their 5G rollouts?
- Understanding the key considerations for operators as they look to secure their 5G network infrastructure
- How can vendors help operators to strike the perfect balance between network security and performance?

### Participants

**Srilakshmi Valisammagari** - Senior Technical Manager - Security Products, Verizon

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### CLOSE OF MAIN CONFERENCE DAY 2

5:40pm - 5:45pm

Enterprise 5G Applications

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### CLOSE OF MAIN CONFERENCE DAY 2

5:40pm - 5:45pm

Cloud Native

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### CLOSE OF MAIN CONFERENCE DAY 2

5:40pm - 5:45pm

Network Modernization & Open RAN

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### CLOSE OF MAIN CONFERENCE DAY 2

5:40pm - 5:45pm

The Edge

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### CLOSE OF MAIN CONFERENCE DAY 2

5:40pm - 5:45pm

AI & Network Automation



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1:00PM						

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TIME	AI & NETWORK AUTOMATION	CLOUD NATIVE	ENTERPRISE 5G APPLICATIONS	NETWORK MODERNIZATION & OPEN RAN	THE BIG 5G KEYNOTES - IN PERSON AND LIVE STREAMED	THE EDGE
<b>4:00PM</b>	<p><b>4:25pm</b> - Service Provider Fireside Chat – Can 5G networks manage themselves?</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – Automating and orchestrating end-to-end network slicing</p> <p><b>4:55pm</b> - Panel Discussion – How vulnerable are 5G networks and is enough being done to secure them during the rollouts?</p>	<p><b>4:25pm</b> - Service Provider Fireside Chat – Reinforcing your network security for cloud native 5G infrastructure</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – Transforming telco BSS &amp; OSS to be 5G ready</p> <p><b>4:55pm</b> - Panel Discussion – New vendors, new partners and new competitors: A closer inspection of the telco cloud ecosystem</p>	<p><b>4:25pm</b> - Public Safety Presentation – Saving lives in emergency situations with the support of 5G</p> <p><b>4:55pm</b> - Panel Discussion – Can we expect a noteworthy return on investment for V2X services within the next 5 years?</p>	<p><b>4:25pm</b> - Service Provider Presentation – Maximizing the efficiency of network field operations for 5G</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – What role will DSS have to play beyond an initial acceleration of 5G rollouts?</p> <p><b>4:55pm</b> - Panel Discussion – A deep dive into the argument for network sharing in North America</p>		<p><b>4:25pm</b> - Service Provider Presentation – Touchless travel case study: Implementing real time applications at the edge</p> <p><b>4:40pm</b> - Gold Sponsor Presentation – Why do private networks need the benefits of edge computing to meet the needs of the enterprise?</p> <p><b>4:55pm</b> - Panel Discussion – 5G or the edge: Which is set to throw open the doors to the promised land of transformative, next-gen applications?</p>
<b>5:00PM</b>	<b>5:40pm</b> - CLOSE OF MAIN CONFERENCE DAY 2	<b>5:40pm</b> - CLOSE OF MAIN CONFERENCE DAY 2	<b>5:40pm</b> - CLOSE OF MAIN CONFERENCE DAY 2	<b>5:40pm</b> - CLOSE OF MAIN CONFERENCE DAY 2		<b>5:40pm</b> - CLOSE OF MAIN CONFERENCE DAY 2

# SESSIONS

VIRTUAL - 08.30.21

BIG 5G Event

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## Service Provider Presentation – What are the next steps, following initial working trails of Open RAN?

12:00pm - 12:15pm  
Open RAN

- Reviewing first steps in Open RAN trials
- What new network capabilities are introduced with Open RAN?
- Maintaining excellent customer experience throughout deployment
- Accelerating widescale Open RAN deployments

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## Service Provider Fireside Chat – Constructing and monetizing the telco edge

12:00pm - 12:15pm  
The Edge

- Modernizing network functionality to move to a more microservices, containerized approach
- Identifying the edge applications that offer greatest commercial potential
- How are telcos engaging enterprise, developer and integrator communities on the edge opportunity?

### Participants

**Beth Cohen** - SDN Product Strategist, DMTS, Verizon

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## Platinum Sponsor Presentation – Uncovering network agility, efficiency and scalability with Open RAN

12:15pm - 12:30pm  
Open RAN

- Automation is key to maximize the benefits of Open RAN
- Why is the shift to a DevOps cloud centric approach crucial for the successful rollout of Open RAN infrastructure?
- How much more complexity is added to network slicing in an Open RAN environment?

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## Platinum Sponsor Presentation – How (and why) are telcos and hyperscalers are working together at the edge?

12:15pm - 12:30pm  
The Edge

- Attracting an engaged developer ecosystem to leverage 5G for edge applications
- As operators increasingly work with hyperscalers, what can both players learn from one another to make the most of these partnerships?
- How will end users benefit from these partnerships?

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## Super Platinum Sponsor Presentation – Topic to be confirmed...

12:30pm - 12:45pm  
Open RAN

### Participants

**Constantine Polychronopolous** - Vice President, 5G & Telco Cloud, Juniper Networks

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## Panel Discussion – How is edge computing helping to innovate and redefine established telco business models?

12:30pm - 1:05pm  
The Edge

- Pioneering new standalone 5G business models at the edge
- Changing telco mindsets: Should edge processing and compute rather than pure connectivity embody the future of 5G?
- Why are expert partnerships so crucial for the both the technical and commercial success of 5G?
- What changes are required for developers to more seriously turn their attentions to working at the edge?

### Participants

**Jim Brisimitzis** - Founder and General Partner, 5G Open Innovation Lab

**Samer Geissah** - Director, Technology Strategy and Architecture, TELUS

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## Panel Discussion – Looking past the hype: What's the realistic outlook for Open RAN in North America?

12:45pm - 1:20pm  
Open RAN

- What is holding North American operators back from going all-in on Open RAN?
- Beyond fronthaul, what other RAN interfaces need opening and why?
- What are vendors doing to ensure interoperability is achieved and how are they doing this?
- With so many perspectives being put forward on Open RAN, what are the prevailing theories and what is the industry still undecided upon?
- Should regulators be doing more to push the Open RAN agenda?

### Participants

**Antoine Sirois** - Director of Product Management, Kontron

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## Live Audience Q&A

1:05pm - 1:20pm  
The Edge

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## Live Audience Q&A

1:20pm - 1:35pm  
Open RAN

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## BREAK

1:20pm - 1:45pm  
The Edge

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## BREAK

1:35pm - 1:45pm  
Open RAN

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## Service Provider Fireside Chat – Overcoming the obstacles on the road to the Open RAN utopia

1:45pm - 2:00pm  
Open RAN

- Just how much more complex is Open RAN deployment and operation?
- How much of a concern is vendor interoperability for operators? And how bought into Open RAN are major operators?
- When working with multiple vendors, who will take responsibility when a problem arises?

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## Service Provider Presentation – Touchless travel case study: Implementing real time applications at the edge

1:45pm - 2:00pm  
The Edge

- What is touchless travel and why is this set to become the industry standard?
- Examining the technology and deployment options for a multitude of touchless use cases
- How can airports increasingly capitalize on real-time benefits of MEC?

### Participants

**Danielle Aiello** - Vice President of Account Management, Boingo Wireless

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## Gold Sponsor Presentation – How does the RIC provide the much-needed brains to underpin effective Open RAN deployment?

2:00pm - 2:15pm  
Open RAN

- What exactly does the RIC provide and why do operators need its real-time and non-real time functionality?
- Optimising the RIC for your specific Open RAN strategy and changing network requirements
- How are RIC platforms helping to strengthen a multi-vendor ecosystem for the disaggregation of RAN?

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## Gold Sponsor Presentation – Why do private networks need the benefits of edge computing to meet the needs of the enterprise?

2:00pm - 2:15pm

The Edge

- A natural partnership to deliver new low latency use cases and help manage bandwidth
- How can strategically positioned edge infrastructure help to customize and fine tune private network deployments?
- Telcos are in a strong position to offer private network solutions in conjunction with edge computing

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## Panel Discussion – Greenfield vs. brownfield: Understanding the requirements differing for Open RAN scenarios

2:15pm - 2:50pm

Open RAN

- How can Open RAN be deployed from a brownfield and greenfield perspective?
- Can brownfield Open RAN really compete with greenfield deployments?
- To what extent is brownfield Open RAN a rapidly scalable option? And how much investment is required to make this a reality?
- What can both brownfield and greenfield operators learn from one another?
- Should governments and regulators be doing more to push the Open RAN agenda?

### Participants

**Gilles Garcia** - Sr Director Business Lead Wired & Wireless Group, Xilinx

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## Panel Discussion – 5G or the edge: Which is set to throw open the doors to the promised land of transformative, next-gen applications?

2:15pm - 2:50pm

The Edge

- To what extent is the success of 5G dependent on the success of edge computing?
- How crucial is edge computing for the effective delivery of 5G applications and services?
- What is the relationship between edge and 5G when it comes to Industry 4.0?
- How are carriers making money on MEC right now and how can we expect this to evolve over the coming years?
- What does this mean for the business architecture for the edge?

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## Live Audience Q&A

2:50pm - 3:05pm

Open RAN

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## Live Audience Q&A

2:50pm - 3:05pm

The Edge

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## CLOSE OF TRACK

3:05pm - 3:10pm

Open RAN

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## CLOSE OF TRACK

3:05pm - 3:10pm

The Edge

# SCHEDULE

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<b>1:00PM</b>	<p><b>1:20pm</b> - Live Audience Q&amp;A</p> <p><b>1:35pm</b> - BREAK</p> <p><b>1:45pm</b> - Service Provider Fireside Chat – Overcoming the obstacles on the road to the Open RAN utopia</p>	<p><b>1:05pm</b> - Live Audience Q&amp;A</p> <p><b>1:20pm</b> - BREAK</p> <p><b>1:45pm</b> - Service Provider Presentation – Touchless travel case study: Implementing real time applications at the edge</p>
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## Enterprise Fireside Chat – Making a difference: How can 5G help to save lives by redefining the healthcare industry?

12:00pm - 12:15pm

Enterprise 5G Applications

- To what extent has Covid inhibited innovation within the healthcare industry?
- Weighing up the benefits of 5G against WiFi 6 to deliver new healthcare workflows
- Wearable, diagnostics, and remote patient care: What use cases are being considered through the 5G lens?

### Participants

**Kris Kline** - Principal Network Strategy, Chief Digital Office, Kaiser Permanente

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## Service Provider Presentation – AI & 5G: The perfect combo to power the killer apps of tomorrow

12:00pm - 12:15pm

AI & Network Automation

- A closer look at the typical scenarios of AI and automation throughout 5G networks
- What characteristics do 5G networks need to be able to effectively support AI applications?
- The enterprise play: How can 5G connectivity accelerate enterprise adoption of AI powered applications?

### Participants

**Nada Golmie** - Chief, Wireless Networks Division, National Institute of Standards and Technology

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## Platinum Sponsor Presentation – Deploying enterprise-friendly 5G networks for a service led future

12:15pm - 12:30pm

Enterprise 5G Applications

- Back to basics: What does the 5G Core and standalone 5G actually mean for enterprises?
- Delivering a robust indoor coverage proposition to provide the groundwork for a multitude of vertical use cases
- Preparing for co-innovation with the industry

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## Platinum Sponsor Presentation – Advancing 5G network security with AI & ML

12:15pm - 12:30pm

AI & Network Automation

- How can operators feel confident in their network security, as they become increasingly reliant on software?
- Developing robust security frameworks to offer additional protection for AI models that power the network
- Future proofing 5G networks against potential security threats

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## Panel Discussion – What makes 5G networks tailor-made for enterprise customers?

12:30pm - 1:05pm

Enterprise 5G Applications

- Do enterprises currently consider 5G as a key component of digital transformation? How can we boost enterprise interest levels?
- Which verticals are best positioned to benefit from 5G?
- A closer look at the natural synergy between cloud architecture and 5G?
- What does 5G and the edge mean for developers?
- How long will enterprises have to wait to gain access to a tailored network slice?

### Participants

**Jason Inskip** - Director, 5G Center of Excellence, AT&T

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## Panel Discussion – To what extent will AI/ML improve and revamp customer experience in the 5G era?

12:30pm - 1:05pm

AI & Network Automation

- How crucial is the deployment of AI/ML to underpin high quality customer experience and engagement?
- How can telcos refocus customer experience with AI and data-driven insight to reduce the risk of churn?
- Utilizing AI to help predict and optimize network performance in real-time
- Delivering a personalized customer experience

### Participants

**Amy LaFebre** - Executive Director, Network Systems, Verizon

**Jeremiah Morrow** - Senior Industry Product Marketing Manager, Vertica

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## Live Audience Q&A

1:05pm - 1:20pm

Enterprise 5G Applications

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## Live Audience Q&A

1:05pm - 1:20pm

AI & Network Automation

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## BREAK

1:20pm - 1:30pm

Enterprise 5G Applications

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## BREAK

1:20pm - 1:30pm

AI & Network Automation

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## Public Safety Presentation – Saving lives in emergency situations with the support of 5G

1:30pm - 2:00pm

Enterprise 5G Applications

- Considering the current role that technology plays to improve public safety
- How can 5G connectivity enhance the existing capabilities public safety applications?
- Utilizing the speed and low latency of 5G to deliver the first responder apps of the future
- The importance of guaranteeing high network availability and reliability for first responders

### Participants

**Ed Mills** - Public Safety Engagement & Technology Solutions Manager, Colorado Governor's Office of Information Technology

**Jonathan Fischer** - Vice President, Carrier Business Development, Cradlepoint

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## Service Provider Fireside Chat – Can 5G networks manage themselves?

1:30pm - 1:45pm

AI & Network Automation

- The evolution and improvement of network analytics from Big Data to modern AI tools
- What does it take to enable predictive decision making for the optimization of 5G networks?
- How will AI improve the efficiency and sustainability of 5G networks?

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## Gold Sponsor Presentation – Automating and orchestrating end-to-end network slicing

1:45pm - 2:00pm

AI & Network Automation

- Where are operators on their network slicing roadmaps?
- Why is automation and orchestration so key for agile 5G network slicing?
- Core, Transport and RAN: Breaking down slicing across the differing layers of the network



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## Panel Discussion – Can we expect a noteworthy return on investment for V2X services within the next 5 years?

2:00pm - 2:35pm

Enterprise 5G Applications

*Much of the hype around V2X services focus on revolutionary services, such as autonomous driving, but this is arguably still a number of years away from becoming a mainstream technology. So, what about the short- to medium-term V2X opportunities? In this panel, we will explore where operators and OEMs alike might start to see ROI from their V2X investments.*

- Are there monetizable V2X services available now?
- What's been the initial takeaways from robotaxis and autonomous shuttle deployments?
- Reviewing potential business models to V2X services
- How can smartphone's play a pivotal role in rolling out V2X applications at scale?

### Participants

**Jyoti Sharma** - Manager - Technology, Strategy, Architecture & Planning, Verizon

**Anil Rachakonda** - Vice President, co-pace, Continental Automotive

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## Panel Discussion – How vulnerable are 5G networks and is enough being done to secure them during the rollouts?

2:00pm - 2:35pm

AI & Network Automation

- Are 5G networks more or less secure compared to previous generations of cellular technology?
- How are operators building security into their 5G rollouts?
- Understanding the key considerations for operators as they look to secure their 5G network infrastructure
- How can vendors help operators to strike the perfect balance between network security and performance?

### Participants

**Srilakshmi Valisammagari** - Senior Technical Manager - Security Products, Verizon

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## Live Audience Q&A

2:35pm - 2:50pm

Enterprise 5G Applications

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## Live Audience Q&A

2:35pm - 2:50pm

AI & Network Automation

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## CLOSE OF TRACK

2:50pm - 2:55pm

Enterprise 5G Applications

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## CLOSE OF TRACK

2:50pm - 2:55pm

AI & Network Automation

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# SESSIONS

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## Chairperson's Opening Remarks – Welcome to BIG 5G!

8:40am - 8:50am

The BIG 5G Keynotes - In Person and Live Streamed

### Participants

**Phil Harvey** - Editor in Chief, Light Reading

## 5G Americas Keynote Address – State of the 5G industry

8:50am - 9:00am

The BIG 5G Keynotes - In Person and Live Streamed

- The next chapter in the 5G enterprise story
- How is the newly unlocked mid-band spectrum being utilized?
- What is the impact of 5G standalone across the entire network?

### Participants

**Chris Pearson** - President, 5G Americas

## Service Provider Keynote Address – Building 5G for all

9:00am - 9:20am

The BIG 5G Keynotes - In Person and Live Streamed

- Carving out the ultimate evolutionary path to 5G standalone
- How will 5G standalone impact customer experience?
- Deploying a nationwide 5G network that reaches all Americans
- How is 5G fuelling innovation across all industries?

### Participants

**Neville Ray** - President of Technology, T-Mobile

## Diamond Sponsor Keynote Address – Delivering a healthy return on investment from 5G infrastructure now and in the future

9:20am - 9:40am

The BIG 5G Keynotes - In Person and Live Streamed

- Low hanging monetizable fruit for operators now and in the next 5 years
- Promoting 5G as a revolutionary technology for the enterprise
- What are the opportunities beyond connectivity for the 5G consumer market?
- Laying the foundations for network slicing and the flexible monetization possibilities this will bring

## Keynote Panel Discussion – Who's leading the 5G rollout race? Evaluating the changing dynamics of the ongoing network rollouts in North America

9:40am - 10:20am

The BIG 5G Keynotes - In Person and Live Streamed

*5G network rollouts in North America are well under way, with major operators in the region having already largely laid out their standalone roadmap. But, with so many network options, technologies and deployment strategies to choose from, who is leading the way to standalone?*

- An impact assessment of the Covid pandemic on 5G network rollouts in North America
- What is going to be done with newly acquired mid-band spectrum?
- What are the next steps for operators to embark on in their network rollouts?
- How much momentum is Open RAN gaining in North America? And are the expectations for Open RAN aligned with the reality?
- With the sun setting on 3G, how can operators capitalise on the newly freed up spectrum?

### Participants

**Adam Koepp** - Senior Vice President – Technology, Strategy, Architecture and Planning, Verizon

## NETWORKING BREAK

10:20am - 11:05am

The BIG 5G Keynotes - In Person and Live Streamed

## Service Provider Keynote Address – Why the grass is greener for greenfield 5G deployments

11:05am - 11:25am

The BIG 5G Keynotes - In Person and Live Streamed

- What's the status of Dish's 5G rollout?
- Discovering the real-world benefits of Open RAN
- What learnings can other operators take away from the deployments of greenfield 5G?
- What's on the horizon for Dish?

### Participants

**Marc Rouanne** - Executive Vice President, Chief Network Officer, DISH Wireless

## Keynote Panel Discussion – The enterprise perspective: What do end-users want, need and expect from 5G services?

11:25am - 12:05pm

The BIG 5G Keynotes - In Person and Live Streamed

*With 5G being hailed as a transformative technology for the enterprise, we take a moment to ask perhaps the most important question... So what?! Are enterprises as interested in 5G as they should be and how can the telecoms industry support enterprise customers in their digital transformations?*

- What do enterprises expect from 5G? Are expectations aligned with reality?
- Fitting 5G into wider enterprise digital transformations
  - How has Covid impacted enterprise digital transformation?
- A look into the B2B2C opportunities 5G presents for enterprises
- What will motivate enterprises to invest in deploying their own private networks?
  - How can operators support enterprises in this process?
- Closing the technical 'language barrier' between telcos and enterprises

### Participants

**Ken Lovell** - Senior Vice President, ShotLink Business Operations, PGA TOUR

**Tyler Svitak** - Executive Director, Colorado Smart Cities Alliance

**Moderator: Chris Pearson** - President, 5G Americas

## Super Platinum Sponsor Keynote Address – Embracing cloud as an integral component of 5G networks

12:05pm - 12:25pm

The BIG 5G Keynotes - In Person and Live Streamed

- How swiftly can telcos transition to operate as fully cloud native organizations?
  - Understanding the role public cloud plays in this process and beyond
- Is the software defined nature of modern networks speeding up the deployment of 5G?
- Why cloud native goes hand in hand with network slicing
- Aligning 5G networks with BSS & OSS

## Service Provider Keynote Address – It's all about the experience: Transforming the everyday with 5G innovation

12:25pm - 12:45pm

The BIG 5G Keynotes - In Person and Live Streamed

- What do we mean by a 5G experience and why are these so important?
- Top use cases: Delivering new transformative experiences for consumer and enterprise customers
- How is 5G helping to close the digital divide?

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## BREAK

12:45pm - 1:30pm

The BIG 5G Keynotes - In Person and Live Streamed

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## Service Provider Presentation – Mind the cloud native gap: Where are we now and where do we need to get to?

1:30pm - 1:45pm

Cloud Native

- How and where are cloud native technologies being deployed and tested in the network?
- Key takeaways from the cloud native journey to date
- Where are the gaps in cloud native development that telcos still need to address?
- Transitioning the workforce to DevOps

## Participants

**Derek Peterson** - Chief Technology Officer, Boingo Wireless

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## Service Provider Presentation – Developing the neural host ecosystem

1:30pm - 1:45pm

Network Modernization

- What are the key technology requirements for neutral hosted networks?
- Hosting multiple MNOs to enhance their connectivity reach
- Delivering effective edge compute capabilities to facilitate the modern role of MNOs

## Participants

**Mirko Voltolini** - Vice President Strategy & Innovation, Colt Technology Services

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## Platinum Sponsor Presentation – Why cloud native 5G transformation relies on the effective orchestration of network functions and services

1:45pm - 2:00pm

Cloud Native

- How can orchestration and automation reduce operational costs and improve service agility?
- Why will DevOps play such a crucial role as telcos increasingly turn to orchestration?
- Diving into the complexities of end-to-end network orchestration

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## Platinum Sponsor Presentation – Solving the 5G densification puzzle with beamforming and mMIMO

1:45pm - 2:00pm

Network Modernization

- Make to make most of your 5G mid-band spectrum: How are operators innovating to deliver outstanding levels of capacity and coverage?
- Enhancing customer experience with high-performance mMIMO
- Overcoming key beamforming challenges

## Participants

**Harpinder Matharu** - Sr Director Strategy and Technical Marketing Wired & Wireless Group, Xilinx

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## Panel Discussion – Get your head in the clouds! To what extent is cloud native progressively defining every facet of 5G?

2:00pm - 2:35pm

Cloud Native

- What is the current state of cloud in North American telcos?
- Considering the differing uses of public, private and hybrid cloud for 5G
- How can cloud native be used to simultaneously improve network functionality and make enterprise services more readily available?
- Differentiating telco cloud services from traditional cloud services
- How can telecom operators successfully redefine their role via the move towards a software driven approach?

## Participants

**Niray Kundu** - Distinguished Engineer, Verizon

**Amir Rajwany** - Chief Operating Officer, Limitless Mobile LLC

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## Panel Discussion – ? Cut through the commotion of network slicing

2:00pm - 2:35pm

Network Modernization

- How are operators laying the foundations for network slicing in the future?
- When can we realistically expect network slicing at scale?
- How much complexity does Open RAN add to the network slicing riddle?
- Will enterprises prefer private networks over network slicing? What will influence their decision-making process?

## Live Audience Q&A

2:35pm - 2:50pm

Cloud Native

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## Live Audience Q&A

2:35pm - 2:50pm

Network Modernization

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## BREAK

2:50pm - 3:00pm

Cloud Native

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## BREAK

2:50pm - 3:00pm

Network Modernization

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## Service Provider Fireside Chat – Reinforcing your network security for cloud native 5G infrastructure

3:00pm - 3:15pm

Cloud Native

- To what extent are software driven 5G networks more vulnerable?
- 5G networks require cloud native containerized security
- What do proactive security measures look like for 5G?
- Integrating a zero-trust approach to protect the network from end-to-end

## Participants

**Sanjay Macwan** - CISO & SVP, Engineering & Networks, Vonage

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## Service Provider Presentation – Maximizing the efficiency of network field operations for 5G

3:00pm - 3:15pm

Network Modernization

- The importance of embracing virtualization and automation
- What tools and applications are required to fully enable zero touch?
- Saving time and money by avoiding dispatch for network operations
- Considering culture: How do you take staff and partners on the journey with you to embrace agile practices?

## Participants

**Sankaran Ramanathan** - Executive Director – Network Systems Field Operations, Verizon

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## Gold Sponsor Presentation – Transforming telco BSS & OSS to be 5G ready

3:15pm - 3:30pm

Cloud Native

- Why is cloud native OSS/BSS now more crucial than ever?
- How must OSS/BSS evolve to effectively operate across both the physical and virtualized domains of network?
- Coupling networking planning and optimization with OSS/BSS

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## Gold Sponsor Presentation – What role will DSS have to play beyond an initial acceleration of 5G rollouts?

3:15pm - 3:30pm

Network Modernization

- To what extent is DSS currently accelerating 5G rollouts across North America?
- How is Open RAN making it easier for 5G networks to support DSS?
- What is the long-term outlook for DSS and how can operators capitalize on the technology's potential?

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## Panel Discussion – New vendors, new partners and new competitors: A closer inspection of the telco cloud ecosystem

3:30pm - 4:05pm

Cloud Native

- Just how much has the vendor ecosystem changed in the last year or so?
- How are movements like Open Source and Open RAN driving change?
- Adapting from the traditional hardware mentality of telcos to embrace software and the move to work with cloud and software vendors
- How important is the forging of new partnerships for the ultimate success of 5G and rollout of cloud native services?
- What can telcos learn from working with cloud service providers?

### Participants

**Nathan Sutter** - Director of Network Operations and Engineering , Nex-Tech Wireless

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## Panel Discussion – A deep dive into the argument for network sharing in North America

3:30pm - 4:05pm

Network Modernization

- To what extent is network sharing a necessity for the success of 5G?
- What is needed to make network sharing a reality? Is there currently enough focus from the ecosystem on this?
- Validating the benefits of tower-sharing
- What could network sharing potentially mean for tier 2 & 3 operators?

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## Live Audience Q&A

4:05pm - 4:20pm

Cloud Native

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## Live Audience Q&A

4:05pm - 4:20pm

Network Modernization

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## CLOSE OF TRACK

4:20pm - 4:25pm

Cloud Native

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## CLOSE OF TRACK

4:20pm - 4:25pm

Network Modernization

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8:00AM			<p><b>8:40am</b> - Chairperson's Opening Remarks – Welcome to BIG 5G!</p> <p><b>8:50am</b> - 5G Americas Keynote Address – State of the 5G industry</p>
9:00AM			<p><b>9:00am</b> - Service Provider Keynote Address – Building 5G for all</p> <p><b>9:20am</b> - Diamond Sponsor Keynote Address – Delivering a healthy return on investment from 5G infrastructure now and in the future</p> <p><b>9:40am</b> - Keynote Panel Discussion – Who's leading the 5G rollout race? Evaluating the changing dynamics of the ongoing network rollouts in North America</p>
10:00AM			<p><b>10:20am</b> - NETWORKING BREAK</p>
11:00AM			<p><b>11:05am</b> - Service Provider Keynote Address – Why the grass is greener for greenfield 5G deployments</p> <p><b>11:25am</b> - Keynote Panel Discussion – The enterprise perspective: What do end-users want, need and expect from 5G services?</p>
12:00PM			<p><b>12:05pm</b> - Super Platinum Sponsor Keynote Address – Embracing cloud as an integral component of 5G networks</p> <p><b>12:25pm</b> - Service Provider Keynote Address – It's all about the experience: Transforming the everyday with 5G innovation</p> <p><b>12:45pm</b> - BREAK</p>
1:00PM	<p><b>1:30pm</b> - Service Provider Presentation – Mind the cloud native gap: Where are we now and where do we need to get to?</p> <p><b>1:45pm</b> - Platinum Sponsor Presentation – Why cloud native 5G transformation relies on the effective orchestration of network functions and services</p>	<p><b>1:30pm</b> - Service Provider Presentation – Developing the neural host ecosystem</p> <p><b>1:45pm</b> - Platinum Sponsor Presentation – Solving the 5G densification puzzle with beamforming and mMIMO</p>	
2:00PM	<p><b>2:00pm</b> - Panel Discussion – Get your head in the clouds! To what extent is cloud native progressively defining every facet of 5G?</p> <p><b>2:35pm</b> - Live Audience Q&amp;A</p> <p><b>2:50pm</b> - BREAK</p>	<p><b>2:00pm</b> - Panel Discussion – ? Cut through the commotion of network slicing</p> <p><b>2:35pm</b> - Live Audience Q&amp;A</p> <p><b>2:50pm</b> - BREAK</p>	

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<b>4:00PM</b>	<p><b>4:05pm</b> - Live Audience Q&amp;A</p> <p><b>4:20pm</b> - CLOSE OF TRACK</p>	<p><b>4:05pm</b> - Live Audience Q&amp;A</p> <p><b>4:20pm</b> - CLOSE OF TRACK</p>	

# SESSIONS

VIRTUAL - 09.02.21

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## Chairperson's Opening Remarks – Welcome back to BIG 5G!

8:55am - 9:00am

The BIG 5G Keynotes - In Person and Live Streamed

### Participants

**Mike Dano** - Editorial Director, 5G & Mobile Strategies, Light Reading

## Service Provider/Enterprise Keynote Fireside Chat – Private Networks Use Case: What sets a 5G enabled shipyard apart?

9:00am - 9:20am

The BIG 5G Keynotes - In Person and Live Streamed

- How is 5G transforming complex manufacturing processes?
- What applications and devices are currently being deployed within manufacturing private networks?
- Reviewing key takeaways from the 5G site testing to date
- Continuously optimizing the network to suit end-user requirements

## Super Platinum Sponsor Keynote Address – On the edge of glory: Why is edge computing the cornerstone for delivering the full potential of 5G services?

9:20am - 9:40am

The BIG 5G Keynotes - In Person and Live Streamed

- What constitutes a winning edge strategy when it comes to 5G?
- The 5G ecosystem: How are telcos and cloud providers increasingly innovating together at the edge?
- Seamlessly integrating the 5G network edge and enterprise edge to accelerate new digital possibilities

### Participants

**Todd Krautkremer** - Chief Marketing Officer, Cradlepoint

## Keynote Panel Discussion – Solving the curious case of 5G monetization ??

9:40am - 10:20am

The BIG 5G Keynotes - In Person and Live Streamed

*5G is set to revolutionize the way the world works and could open up a myriad of revenue-generating opportunities for operators now and even more so in the future. However, the conundrum of how 5G will be effectively monetized is far from an open-and-shut case, with many questions still left unanswered and monetization strategies still to be defined. Can our panel of Sherlocks solve the mystery, as they investigate and shed some light on how operators make the most of the 5G opportunity? The game is afoot!*

- What is the business case for 5G?
- What 5G business models are emerging and how might we expect these to evolve in the coming years?
- How can operators look to differentiate their 5G offering from their competitors?
- With private 5G emerging as a key early use case, should operators play an important role both in the deployment and operational management of such networks?
- How will the 5G consumer play differ from that of 4G?

### Participants

**William Stovall** - Vice President of Mobility & IoT, AT&T

**Todd Krautkremer** - Chief Marketing Officer, Cradlepoint

## Service Provider Keynote Address – Integrating cellular into the established business models of cable companies

10:20am - 10:40am

The BIG 5G Keynotes - In Person and Live Streamed

- Examining the potential benefits for cable MVNOs in the 5G era
- Why did cable companies largely shy away from the C-band auction?
- What is the outlook for video distribution in the year to come?

### Participants

**Steve Krom** - Senior Vice President, West Division, Comcast Cable

## NETWORKING & REFRESHMENT BREAK

10:40am - 11:25am

The BIG 5G Keynotes - In Person and Live Streamed

## Super Platinum Sponsor Keynote Address – How can 5G enhance our lives in a post Covid world?

11:25am - 11:45am

The BIG 5G Keynotes - In Person and Live Streamed

- What has the pandemic meant for 5G over the past couple of years?
- Will the Covid pandemic continue to shape the future of 5G?
- A closer look at new unexpected use cases to emerge off the back of the pandemic
- How can the telecoms industry take the lead in making the world a better place?

### Participants

**Raj Yavatkar** - Chief Technology Officer, Juniper Networks

## Service Provider Keynote – Beyond 5G: Working to Close the Digital Divide in Rural America

11:45am - 12:05pm

The BIG 5G Keynotes - In Person and Live Streamed

*With rural communities increasingly concerned about being left behind, 5G deployment offers a strategic opportunity for operators to take the lead in closing the nation's digital divide. This will require operators to focus beyond 5G deployment and think critically about how they can improve device access and affordability, especially for use in education. Right now, serving rural communities can cost up to three-times more than urban locations. For this reason, the industry and the United States government need to work strategically to offset the cost of serving rural populations. UScellular's chief technology officer, Mike Irizarry discusses how, with a commitment to collaboration and outside-the-box thinking, operators can ensure 5G and enhanced network technology will support accessibility for rural America.*

### Participants

**Mike Irizarry** - Chief Technology Officer, UScellular

## Super Platinum Sponsor Keynote Address – What stands private networks apart as such a compelling 5G use case?

12:05pm - 12:25pm

The BIG 5G Keynotes - In Person and Live Streamed

- What can LTE private networks do today and how will 5G continue to modernize enterprises?
- How has CBRS unlocked the private network opportunity in the US?
- Meeting the specific needs of differing industry verticals with tailored connectivity solutions



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## Service Provider Keynote – The vital role that edge computing now plays with 5G

12:25pm - 12:45pm

The BIG 5G Keynotes - In Person and Live Streamed

- Combining fibre and 5G networks for more flexible and reliable connectivity
- How does the right edge platform enable enterprises build, manage, and scale applications across distributed environments?
- Mobilizing enterprise developers to unlock the next wave of digital innovations

### Participants

**Paul Savill** - Senior Vice President, Product Management & Services, Lumen

## BREAK

12:45pm - 1:30pm

The BIG 5G Keynotes - In Person and Live Streamed

## Enterprise Presentation – Tracking birdies, pars and bogeys with the help of CBRS

1:30pm - 1:45pm

Private 5G Networks

- Key takeaways from testing CBRS over the past couple of years
- Which applications and use cases have benefited most from CBRS connectivity?
- Transitioning away from Wi-Fi to make CBRS the primary connectivity solution for ShotLink
- What's in the pipeline in terms of future innovation?

### Participants

**Ken Lovell** - Senior Vice President, ShotLink Business Operations, PGA TOUR

## Service Provider Presentation – Fast-tracking 5G core deployment on the road to standalone

1:30pm - 1:45pm

5G Core

- The virtualization of the mobile core is well underway, but what does this mean for the wider network?
- Adapt, improvise, overcome: What have we learnt to date from the ongoing standalone rollout?
- What does the 5G standalone core unlock from a commercial perspective?

## Platinum Sponsor Presentation – Navigating the complexities and potential pitfalls of private networks

1:45pm - 2:00pm

Private 5G Networks

- A closer look at the functional architecture for private networks
- Future proofing LTE private networks to be 5G ready
- Balancing the benefits of 5G with additional IT management complexities that it brings

## Platinum Sponsor Presentation – Building a services friendly 5G Core for flexible and real-time charging in the 5G era

1:45pm - 2:00pm

5G Core

- 5G brings network and business systems closer together than ever before
- How must charging systems evolve to meet the changing needs of the telco business model?
- What are the benefits of aligning your monetization and charging strategies as early as possible?

## Panel Discussion – An in depth break down of the technical requirements for effective private network deployments

2:00pm - 2:35pm

Private 5G Networks

- LTE vs 5G: What are modern private networks capable of?
- Tailoring connectivity solutions to specific customer needs: How customizable are private networks?
- How might the business case impact the functional architecture of private 5G networks?
- Ensuring infrastructure and IoT device deployment timelines are aligned for the smooth launch of fully functional private networks
- Bolstering network security: Which models offer the highest levels of security for enterprises?

### Participants

**Peri Subrahmanya** - Principal Engineer, Operations Platforms, Bayer

**Charles Stallings** - Senior Manager, Innovative Product Development & Incubation, Lumen

**Richard Piasentin** - Chief Marketing & Chief Strategy Officer, Accedian

**Lisa Guess** - Senior Vice President, Global Sales Engineering, Cradlepoint

## Panel Discussion – As North American operators move towards 5G standalone, what are the key technical and operational requirements for 5G Core success?

2:00pm - 2:35pm

5G Core

- Validating the various 5G core deployment strategies and architectures
- How complex is the integration of 4G and 5G core networks?
- What are the infrastructure choices for cloud native 5G core?
- With standalone fast becoming a reality at scale, when should we expect network slicing to be operationally viable?

### Participants

**Samer Geissah** - Director, Technology Strategy and Architecture, TELUS

## Live Audience Q&A

2:35pm - 2:50pm

Private 5G Networks

## Live Audience Q&A

2:35pm - 2:50pm

5G Core

## BREAK

2:50pm - 3:00pm

Private 5G Networks

## BREAK

2:50pm - 3:00pm

5G Core

## Enterprise Presentation – Never mind the innovations of tomorrow! How are private networks making smart manufacturing a reality today?

3:00pm - 3:15pm

Private 5G Networks

- What makes a private network the optimal connectivity solution for smart factories?
- The short- and long-term vision for the utilization of private networks in manufacturing
- Integrating IoT devices into a private network environment

### Participants

**Kiel Ronning** - Manager of Manufacturing Controls & Analytics, John Deere

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## Service Provider Fireside Chat – What does 5G standalone really mean for the future of the network?

3:00pm - 3:15pm

5G Core

- What new capabilities does standalone unlock for 5G networks?
- How can operators quickly and efficiently scale 5G standalone coverage to take full advantage of its benefits?
- How crucial is it to continue to deploy NSA alongside SA infrastructure? What role can cloud native platforms play in this regard?

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## Gold Sponsor Presentation – Which industry verticals are best placed to benefit from private network deployment?

3:15pm - 3:30pm

Private 5G Networks

*Private network use cases apply to a wide range of industry verticals, from utilities to retail and healthcare to manufacturing. But why should certain verticals be paying particularly close attention to the prospect of private LTE & 5G?*

- How great is the private network opportunity for the entire ecosystem?
- 5G is catalysing the demands for customizable connectivity
- Highlighting the similar characteristics and demands of vertical industries that could benefit from private networks

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## Gold Sponsor Presentation – Secure the core! A closer look into how operators must protect the heart of their 5G networks

3:15pm - 3:30pm

5G Core

- How can operators overcome the key challenges of integrating automation and security into 5G Core?
- Why should operators adopt a broad range of security specifications for their core architecture? And what is the ideal implementation timeline for such specifications?
- Streamlining security enforcement with key management

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## Panel Discussion – Partnerships, pricing and possession: Debating the optimal private network business model

3:30pm - 4:05pm

Private 5G Networks

- Strengthening the proposition for private networks
- The value and feasibility of private networks: Who pays who? And what services should end users be paying for?
- What role are operators going to play in the evolving private network landscape?
- Assessing the importance of ecosystem partnerships to deliver compelling private network solutions
- What sort of return on investment can we expect from private networks in terms of operational costs, productivity, and security?

### Participants

**Mirko Voltolini** - Vice President Strategy & Innovation, Colt Technology Services

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## Panel Discussion – The new kids on the block: What do the new crop of non-traditional 5G Core vendors bring to the table?

3:30pm - 4:05pm

5G Core

- What can disruptive vendors offer operators that they have not previously had access to?
- How is the virtualization of the core and the move to standalone driving the need for new blood in the vendor ecosystem?
- How are operators adapting to working with new market players?
- A closer look at the potential new business models to pay for virtualized core equipment

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### Live Audience Q&A

4:05pm - 4:20pm

Private 5G Networks

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### Live Audience Q&A

4:05pm - 4:20pm

5G Core

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### CLOSE OF TRACK

4:20pm - 4:25pm

Private 5G Networks

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### CLOSE OF TRACK

4:20pm - 4:25pm

5G Core

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9:00AM			<b>9:00am</b> - Service Provider/Enterprise Keynote Fireside Chat – Private Networks Use Case: What sets a 5G enabled ship-yard apart? <b>9:20am</b> - Super Platinum Sponsor Keynote Address – On the edge of glory: Why is edge computing the cornerstone for delivering the full potential of 5G services? <b>9:40am</b> - Keynote Panel Discussion – Solving the curious case of 5G monetization ??
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1:00PM	<b>1:30pm</b> - Service Provider Presentation – Fast-tracking 5G core deployment on the road to standalone <b>1:45pm</b> - Platinum Sponsor Presentation – Building a services friendly 5G Core for flexible and real-time charging in the 5G era	<b>1:30pm</b> - Enterprise Presentation – Tracking birdies, pars and bogeys with the help of CBRS <b>1:45pm</b> - Platinum Sponsor Presentation – Navigating the complexities and potential pitfalls of private networks	

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## Service Provider Presentation – Aligning transport networks with modernized RAN architectures

12:00pm - 12:15pm  
5G Transport

- How are transport networks adapting to connect the various RAN architectures without sacrificing RAN performance?
- What are the transport implications of Open RAN?
- How does your choice of spectrum impact your options for transport?

### Participants

**Khaled Elbehiery** - Senior Director, Charter Communications

## Service Provider Presentation – What do gamers want and can 5G meet their needs?

12:00pm - 12:15pm  
Consumer 5G Applications

- What can 5G give gamers that their broadband can't?
- What characteristics would be included in a consumer gaming slice?
- Does 5G have the capability to transform VR gaming into a next level experience?
- Picking your pricing point: Will consumers pay more for an enhanced 5G service?

## Platinum Sponsor Presentation – How should operators plot the path to attain flexible fronthaul functionality?

12:15pm - 12:30pm  
5G Transport

- Migrating fronthaul from CPRI to eCPRI
- What are the key considerations for operators as they look to enable packetized fronthaul?
- How can operators successfully manage the synchronization of fronthaul?

## Platinum Sponsor Presentation – Following initial signs of success, how great of an opportunity is FWA for 5G consumer services?

12:15pm - 12:30pm  
Consumer 5G Applications

- How can FWA help to close the digital divide between urban and rural areas?
- What sort of ROI can operators expect from FWA?
- Differentiating your FWA offering

## Panel Discussion – How must the transport layer evolve to support the smooth delivery of new 5G services?

12:30pm - 1:05pm  
5G Transport

- Are operators set up to meet the greatly increased capacity demands on their transport networks?
- How are operators looking to build their transport networks, with the advanced 5G services that they plan to offer in mind?
- Challenges and opportunities for wholesale operators
- Embracing open initiatives and the newest innovations for 5G transport

### Participants

**Jennifer Andreoli-Fang** - Distinguished Technologist, CableLabs

## Panel Discussion – Which 5G business models should telcos implement to change the game for consumer revenues and services?

12:30pm - 1:05pm  
Consumer 5G Applications

- How can operators innovate and reinvigorate their traditional mobile pricing models when it comes to 5G?
- How can the industry capitalise on the convergence of WiFi & 5G within the home?
- Looking beyond connectivity: What opportunities are operators considering when it comes to consumer markets?
- How important are partnerships and B2B2X business models for the delivery of 5G consumer services?
- How is 5G impacting the MVNO market?

### Participants

**Marc Price** - Global Chief Technology Officer, MATRIXX Software

**Oz Yildirim** - EVP & GM Americas Business Unit, Airties

## Live Audience Q&A

1:05pm - 1:20pm  
5G Transport

## Live Audience Q&A

1:05pm - 1:20pm  
Consumer 5G Applications

## BREAK

1:20pm - 1:30pm  
5G Transport

## BREAK

1:20pm - 1:30pm  
Consumer 5G Applications

## Service Provider Fireside Chat – Starting with Spectrum: What characterizes the optimal transport decisions for each band?

1:30pm - 1:45pm  
5G Transport

- Given that the need to expand 5G coverage is a key priority, how are operators upgrading transport networks to support lower and medium capacity sites?
- Laying the transport foundations to meet the needs of higher band frequencies
- Harmonizing the multi-pronged approach that operators must take to meet the varying spectrum demands of 5G

## Service Provider Fireside Chat – Enhancing the fan experience with 5G

1:30pm - 1:45pm  
Consumer 5G Applications

- How are operators and broadcasting partnering to make redefine the fan experience today?
- A lean-in experience: Enabling fan to view more than just the game
- How can your location impact your personalized fan experience?

## Super Platinum Sponsor Presentation – How does network slicing impact the transport layer?

1:45pm - 2:00pm  
5G Transport

- Integrating transport into end-to-end slicing of 5G networks
- What does your choice of soft or hard network slicing mean from a backhaul perspective?
- Utilizing SDN and automation to unlock new levels of agility for the transport layer

### Participants

**Constantine Polychronopolous** - Vice President, 5G & Telco Cloud, Juniper Networks

## Gold Sponsor Presentation – How will 5G enabled RCS empower operators to regaining control in the consumer messaging space?

1:45pm - 2:00pm  
Consumer 5G Applications

- What can 5G RCS offer that OTT messaging services can't?
- What steps can operators take to ensure RCS becomes the go-to for consumer messaging?
- Enhance the quality of your B2C interactions

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## Panel Discussion: A closer look at the disaggregation of transport networks

2:00pm - 2:35pm

5G Transport

- What's driving disaggregation and to what extent is disaggregation needed for transport?
- How great of an impact would disaggregation have on the more established architectures of transport networks?
- How challenging could the disaggregation of 5G transport be from both a deployment and operational perspective?
- A closer look into the work of interop communities to open transport networks

### Participants

**Art Nichols** - Vice President, Architecture and Technology, Windstream

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## Panel Discussions – Should we be concerned about a lack of consumer interest in 5G?

2:00pm - 2:35pm

Consumer 5G Applications

- Who is the 5G consumer and what do they want from their 5G service?
- How are operators responding to the evolving buying behaviour of consumers?
- To what extent will next gen smartphone adoption drive consumer demand for 5G?
- How can operators look to more effectively market 5G to consumers?
- Will consumers pay more for 5G?

### Participants

**Gary Shapiro** - President & CEO, Consumer Technology Association

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## Live Audience Q&A

2:35pm - 2:50pm

5G Transport

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## Live Audience Q&A

2:35pm - 2:50pm

Consumer 5G Applications

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## CLOSE OF TRACK

2:50pm - 2:55pm

5G Transport

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## CLOSE OF TRACK

2:50pm - 2:55pm

Consumer 5G Applications

# SCHEDULE

VIRTUAL - 09.03.21 -

BIG 5G Event

Physical Event: August 31 - September 2, 2021

Virtual Event: August 30 - September 3, 2021

Colorado Convention Center, Denver

TIME	5G TRANSPORT	CONSUMER 5G APPLICATIONS
<b>12:00PM</b>	<p><b>12:00pm</b> - Service Provider Presentation – Aligning transport networks with modernized RAN architectures</p> <p><b>12:15pm</b> - Platinum Sponsor Presentation – How should operators plot the path to attain flexible fronthaul functionality?</p> <p><b>12:30pm</b> - Panel Discussion – How must the transport layer evolve to support the smooth delivery of new 5G services?</p>	<p><b>12:00pm</b> - Service Provider Presentation – What do gamers want and can 5G meet their needs?</p> <p><b>12:15pm</b> - Platinum Sponsor Presentation – Following initial signs of success, how great of an opportunity is FWA for 5G consumer services?</p> <p><b>12:30pm</b> - Panel Discussion – Which 5G business models should telcos implement to change the game for consumer revenues and services?</p>
<b>1:00PM</b>	<p><b>1:05pm</b> - Live Audience Q&amp;A</p> <p><b>1:20pm</b> - BREAK</p> <p><b>1:30pm</b> - Service Provider Fireside Chat – Starting with Spectrum: What characterizes the optimal transport decisions for each band?</p> <p><b>1:45pm</b> - Super Platinum Sponsor Presentation – How does network slicing impact the transport layer?</p>	<p><b>1:05pm</b> - Live Audience Q&amp;A</p> <p><b>1:20pm</b> - BREAK</p> <p><b>1:30pm</b> - Service Provider Fireside Chat – Enhancing the fan experience with 5G</p> <p><b>1:45pm</b> - Gold Sponsor Presentation – How will 5G enabled RCS empower operators to regaining control in the consumer messaging space?</p>
<b>2:00PM</b>	<p><b>2:00pm</b> - Panel Discussion: A closer look at the disaggregation of transport networks</p> <p><b>2:35pm</b> - Live Audience Q&amp;A</p> <p><b>2:50pm</b> - CLOSE OF TRACK</p>	<p><b>2:00pm</b> - Panel Discussions – Should we be concerned about a lack of consumer interest in 5G?</p> <p><b>2:35pm</b> - Live Audience Q&amp;A</p> <p><b>2:50pm</b> - CLOSE OF TRACK</p>