



Chronos PhaseReady Event: 5G the Field of Dreams

Thursday 3 October 2019 – [Kings Place](#), 90 York Way, London N1 9AG

Agenda

09:15 Registration opens - Breakfast baps & refreshments served

10:00 Welcome - Chronos

10:10 **Keynote: “5G Advancements and Challenges beyond Release 15”** Zahid Ghadialy, Senior Director, Parallel Wireless and Principal Analyst & Consultant, 3G4G

With the confidence built by initial 5G deployments rollouts based on Non-Standalone architecture gaining momentum, the mobile community is looking at what comes next. Service Providers are thinking about Standalone (SA) deployments, vendors are thinking about use cases and verticals, verticals are looking at requirements and alternatives, standards are looking at Release-17 and researchers are thinking about beyond-5G and 6G. This talk will look at how different pieces of the jigsaw puzzle fit together and what the challenges are going forward.

10:50 **Keynote: “The eRAN (“elastic” gNodeB) and the Implications for 5G NR Sync Architectures”** Joe Neil, Network Architect, Microchip, Inc

5G will enable a combination of network services that together will introduce a new level of flexibility in network architectures. Current models built on single operator owned and operated DRAN/CRAN complemented by DAS and Small Cells will be synthesised into common physical plant, sliced & virtualised, and served by the Ethernet based Elastic RAN (ERAN) that will enable 5G NR Advanced services to any size of radio cluster. One key attribute for the ERAN will be the tight synchronisation services required. We will examine and compare the different options for engineering timing services into this evolving paradigm.

11:40 Refreshment Break

12:00 **“Getting the Right Time Right”** Chris Farrow, Technical Manager, Chronos Technology

Mention the phrase “Cybersecurity threats” and network operators begin to panic. Quite rightly so with high-profile attacks frequently featured in the mainstream media detailing



outages in power grids; hospital and civil infrastructure failing due to ransomware, and personal & financial data stolen regularly. But exactly how are the systems we deploy to ensure accurate timing for telecom networks vulnerable? This talk will look how the sync & timing landscape has changed to accommodate new technologies like 4G LTE-A and 5GNR and how that has brought about new vulnerabilities and the technologies that can be put in place to mitigate the risks.

- 12:45 Networking Lunch & Demonstrations (Richard Elsmore, Chris Boulton – Chronos)**
- 14:15 “Network Management for a Secure Timing Network” Simon Butcher, Solutions Architect EMEA, Microchip, Inc**
- 14:35 “Independent Timing: More Important than Ever” Steve Newcombe, Chronos Technology** With the steady commoditisation of timing sources and the ease of deploying GNSS antennas in new build sites, the justification for deploying independent timing is more challenging yet more important than perhaps at any other time.
- 15:00 Wrap up & Prize Draw**
- 15:30 Close**

[Register here](#)