



Stephen M. Blust · Director · Phone +1 404 853-2144 · Email sb8927@att.com

January 19, 2021

3GPP/ETSI Mobile Competence Centre
650, Route des Lucioles
06921 Sophia-Antipolis, France

ATTN: Ms. Susanna Kooistra (susanna.kooistra@etsi.org) and Mr. Issam Toufik(issam.toufik@etsi.org)

Dear Ms. Kooistra and Mr. Toufik:

It is my privilege to recommend Mr. Ron Borsato from AT&T for nomination as Vice-Chairman of 3GPP TSG-RAN at the March 2021 election. Mr. Borsato will be representing AT&T via the ATIS partner of 3GPP.

Mr. Borsato is Principal Member of Technical Staff for AT&T Radio Standards and has been engaged in 3GPP and related work for over 12 years and has a strong background and credentials towards the Vice-Chairman role.

Ron's background includes wireless standards development, radiated testing, hardware design, system engineering, test development, and managerial experience at companies representing multiple levels of the wireless supply chain. He has demonstrated ability to work across 3GPP RAN WGs in the role of rapporteur, convenor/moderator, and delegate to reach consensus on contentious issues to address industry needs.

Mr. Borsato will be trained to comply with applicable antitrust/competition laws and regulations while acting in his capacity as a TSG RAN Vice-Chairman.

Mr. Borsato has the full support of AT&T so that he can successfully fulfill the position of Vice-Chair. AT&T is pleased to recommend Ron for RAN Vice-Chairman and he is looking forward to actively serving in the position.

Sincerely,

A handwritten signature in blue ink, appearing to read "SMB", with a stylized flourish at the end.

Mr. Stephen M. Blust
Director of Radio Access Network Standards
AT&T



RONALD W. BORSATO
Curriculum Vitae

ronald.borsato@att.com

SUMMARY

Engineering professional with wireless standards development, radiated test, hardware design, system engineering, test development, and managerial experience. Demonstrated technical skills in the areas of wireless, RF, analog, digital, embedded systems, system architecture, and hardware/software integration. Leadership strengths include building, motivating and leading work teams to achieve business results, driving consensus, interfacing with customers and suppliers, negotiating, building relationships with peers, project management, proposal writing and budgeting. Authored technical articles and presented at multiple industry-wide technical seminars/workshops in the areas of 5G NR, LTE, GPS, OTA, end-to-end system level test methods, and user performance testing.

PROFESSIONAL EXPERIENCE

AT&T, Middletown, NJ

March 2020 – Present

Principal Member of Technical Staff – Radio Access Network Standards

Lead representative in 3GPP RAN4 and active participant in 3GPP RAN5 and RAN Plenary. Co-Chair of CTIA OTA Working Group.

- Drive initiatives in 3GPP related to radio core and performance specifications and test specifications.
- Work collaboratively with industry partners and 3GPP delegates to achieve AT&T network deployment and spectrum objectives in 3GPP RAN4 and RAN Plenary.
- 3GPP RAN5 Convener for 5G NR FR2 Measurement Uncertainty facilitating the definition of maximum test system uncertainties for 5G NR FR2 RF, RRM, and Demodulation test cases.
- Co-Rapporteur of the RAN5 Study Item on 5G NR User Equipment (UE) application layer data throughput performance.
- As Co-Chair of the CTIA OTA Working Group and CTIA OTA SME, develop work plans, foster industry collaboration on development of OTA performance test methods, and establish test system validation and lab authorization requirements to support device certifications.

PCTEST ENGINEERING LABORATORY, Columbia, MD

July 2016 – March 2020

Chief Technical Officer, OTA – OTA Department

Oversee the overall technical operation and continuing accreditation of SISO, MIMO, A-GPS, and Wi-Fi OTA chambers. Manage OTA operations in MD and CA and act as point of contact for multiple key clients. Achieve technical leadership in 5G, 3GPP RAN WG activities, and CTIA/GCF/PTCRB.

- Expanded testing scope in the OTA Department to meet client test and certification needs including necessary accreditations in Maryland and California with no identified deficiencies for OTA.
- Provided internal support and guidance for all CTIA certification efforts to include OTA, Battery Life, CBRS Alliance lab authorization, and CTIA Cybersecurity.
- Co-Chair of CTIA OTA Working Group and CTIA OTA, CWG and HAC Subject Matter Expert. Provided contributions and critical guidance to OTA working group participants and sub-working groups with attention to the CTIA OTA development for SISO, Carrier Aggregation, MIMO, 5G NR, Wi-Fi (CWG), and A-GPS. Produced project management and OTA test plan scope documents for test plan release planning.

- Rapporteur of the RAN5 Study Item on UE Application Layer Data Throughput Performance Expansion for Carrier Aggregation. The study item was the result of the request from the PTCRB PVG to expand 3GPP TR 37.901 to include 2DL carrier aggregation scenarios including LAA.
- RAN5 Convener for 5G NR FR2 Measurement Uncertainty to facilitate the definition of maximum allowed test system uncertainties for 5G NR FR2 RF conformance test cases.
- Recognized in RAN5 as an OTA expert and contributed to many discussions on 5G NR FR2 OTA testing and provided RAN5's input to RAN Plenary on OTA related matters for the purpose of communicating to external regulatory bodies.
- Within 3GPP RAN4 and RAN5, authored and/or co-sourced multiple contributions and change requests for 3GPP specifications and authored multiple LSs to PTCRB, CTIA, and RAN Plenary in support of PCTEST, PTCRB, and CTIA OTA WG initiatives.

SPIRENT COMMUNICATIONS, Eatontown, NJ**May 2008 – July 2016****Principal Architect – Wireless**

Architecture of wireless test systems/solutions for LTE, OTA, and GNSS. Develop test methodologies for new ventures. Represent the Spirent Wireless Business Unit on the CTO Council. Represent Spirent at various wireless standards bodies and industry groups, including various CTIA Certification Groups and 3GPP RAN Plenary, RAN4 and RAN5.

- Rapporteur for the 3GPP RAN5 Study Item on UE Application Layer Data Throughput Performance. Produced 3GPP TR 37.901.
- Represented Spirent at 3GPP RAN Plenary, RAN4 and RAN5 and COST 2100/IC1004. Authored multiple technical contributions and position papers in the areas of MIMO OTA, LTE radio performance, and UE application layer data performance.
- Co-Chair of CTIA OTA Working Group and CTIA OTA, CWG, HAC, and LTE Subject Matter Expert.
- Chaired the CTIA MIMO Anechoic Chamber Subgroup during early development of MIMO OTA test methods.
- Contributed to the LTE test strategy, architecture, and execution plan.
- Led the OTA Strategy Team that was responsible for expanding Spirent's OTA offerings.
- Selected as a Technical Advisor for the FCC GPS Technical Working Group.
- Participated on panel sessions on receiver performance at the invitation of the FCC.

VERIZON WIRELESS, Basking Ridge, NJ**July 2001 – May 2008****Manager/Member of Technical Staff – Network – Technology Development**

Develop requirements, test procedures, and test capability for CDMA 1xRTT and 1xEV-DO terminals. Produce technology roadmapping information for RF, audio, and power management solutions. Manage team of engineers responsible for device requirements and test development activities. Led the industry in development of radiated sensitivity testing for CDMA and GPS. Contributed to the CTIA Antenna Test Plan effort and acted as Subject Matter Expert for antenna lab audits.

**MOTOROLA, INC., South Plainfield, NJ
(formerly Lucent Technologies Consumer Products)****Sept 1995 – July 2001****Engineering Manager – Personal Communications Sector****Dec 1998 – July 2001**

Managed team responsible for the digital, analog, and audio design of a highly featured CDMA handset. The handset won the CES Innovation Award and Best in Show for 2001 and was voted one of the "Seven Wireless Wonders of 2001." Coordinated platform design efforts across multiple sites and organizations to ensure commonality with other Motorola products.

Member of Technical Staff – Consumer Products

Sept 1995 – Dec 1998

Led hardware integration team responsible for system-level performance tuning, system architecture evaluations, RF/baseband interface definition and testing, hardware and firmware release testing, and high-volume manufacturing calibration and test yields on a complete line of CDMA/AMPS handsets. Designed baseband circuits for CDMA/AMPS handsets.

TEXAS INSTRUMENTS, INC., Dallas, TX**July 1987 – Sept 1995****Electrical Engineer** – Defense Systems and Electronics Group

Developed QPSK modems and RF controller circuitry for a broadband wireless communications system. Developed mixed-signal circuit cards and microwave equipment for defense-oriented products. Managed supplier activities regarding development of microwave/RF, mixed-signal and electromechanical components.

EDUCATION

UNIVERSITY OF TEXAS AT ARLINGTON, 1993
Master of Science in Electrical Engineering

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, 1987
Bachelor of Science in Electrical Engineering