

# BeammWave Advances 6G mmWave Ecosystem as 3GPP Evaluates Digital Beamforming Architecture

**BeammWave has successfully introduced Digital Beamforming to the standardization agenda at the 3GPP RAN4#119 meeting in Dalian, China, marking a pivotal moment for the future of the 6G mmWave ecosystem.**

The 3GPP has officially commenced evaluating the feasibility of Digital Beamforming for device architectures (UE RF) in high-frequency bands (FR2). This study explores the potential of including Digital Beamforming as a standard reference architecture in 6G, establishing it as a highly capable evolution alongside traditional analog beamforming.

*"Bringing Digital Beamforming to the standardization table is a critical step forward in addressing the reliability and performance of high-frequency FR2 networks,"* says Joakim Axmon, Senior Expert Systems and Standards at BeammWave. *"We look forward to continuing this work alongside the ecosystem to drive the digital evolution of 6G, ensuring future networks are both technically robust and commercially viable."*

The evaluation will thoroughly study two primary areas critical to network operators and device manufacturers:

- **Cost and Power Efficiency:** Assessing how modern, state-of-the-art technologies can deliver significant enhancements in power consumption and cost compared to the initial 5G study phase.
- **System and Specification Impact:** Outlining the specific effects on base station implementations (gNB/aNB), Radio Resource Management (RF/RRM) requirements, and overall network procedures to ensure seamless integration.

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**For further information, please contact:**

Stefan Svedberg, CEO

+46 (0) 10 641 45 85

[info@beammwave.com](mailto:info@beammwave.com)

### **About Us**

BeammWave AB are experts in communication solutions for frequencies over 24GHz. The company is building a solution intended for 5G and 6G, in the form of a radio chip with antenna and associated algorithms. The company's approach with digital beamforming is unique and patented, with the aim of delivering a solution with higher performance at a lower cost. The company's Class B shares (BEAMMW B) are listed on the Nasdaq First North Growth Market in Stockholm. Certified Adviser is Redeye Nordic Growth AB.

### **Image Attachments**

[Joakim Axmon](#)