xApp/ rApp Integration Specialist

Overview

We are seeking a skilled ORAN Developer with expertise in xApp integration to join our team at Coranlabs. The ideal candidate will play a crucial role in translating standards, feature documents, and customer requirements into system-level testing for ORAN gNodeB (NR) systems. This role involves working on RAN features, Platform/ Cloud features, functional, performance/ stability testing, and automation, with a strong focus on xApp/ rApp integration.

Experience

6-10 Years

Responsibilities

- Translate Standards, feature documents, and customer requirements into system-level testing for ORAN gNodeB (NR) systems.
- Work on RAN features, Platform/ Cloud features, functional, performance/ stability testing, and automation.
- Debug issues on RRC, PDCP, RLC, MAC, PHY, and Platform, with knowledge of other stack layers being advantageous.
- Knowledge in 5G (SA/ NSA), RIC/xApp/rApp, Cloud, Kubernetes features, and work models.
- Understanding of Wireshark/ L3 protocol messages, RANAP, NBAP features, N3-N6 Interface, QoS, DRB, RTP, and TCP/ IP traffic flows.
- In-depth understanding of 3GPP Rel-15 and beyond features.
- Validate various protocols over all interfaces, create test requirements, test plans, and detailed test procedures.
- Troubleshoot software and hardware issues as well as customer issues.
- Utilise knowledge of LAN/WAN, Routing protocols, TCP/ IP, QoS, Tunneling, and security protocols.
- System-level debugging and problem-solving.
- Understanding of Linux OS internals, TCP/IP, and multi-threading.
- Expertise in Tunneling, Core, and Security Protocol implementation in 5G.
- Hands-on experience in MOS Score evaluation tests and channel modeling tests, Simulator knowledge.
- Collaborate with R&D teams to discuss requirements, product issues, and mitigation.

Job Requirements

- Mandatory 6-10 Years of Experience in various protocols for feature, performance evaluation/stability, and radio access technology troubleshooting issues.
- Strong domain knowledge in RLC/ MAC, RRC, and PDCP.
- Automation scripting expertise (Robot Framework/ Python/ Linux).
- Troubleshoot issues and engage in technical discussions with R&D.

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- Hands-on system and End-to-End testing experience of 5G networks.
- Expert knowledge in various protocols for interoperability, stability/performance evaluation, and troubleshooting.

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