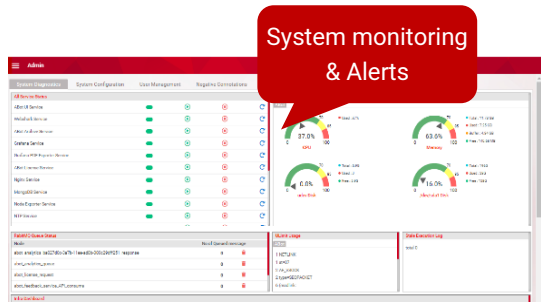
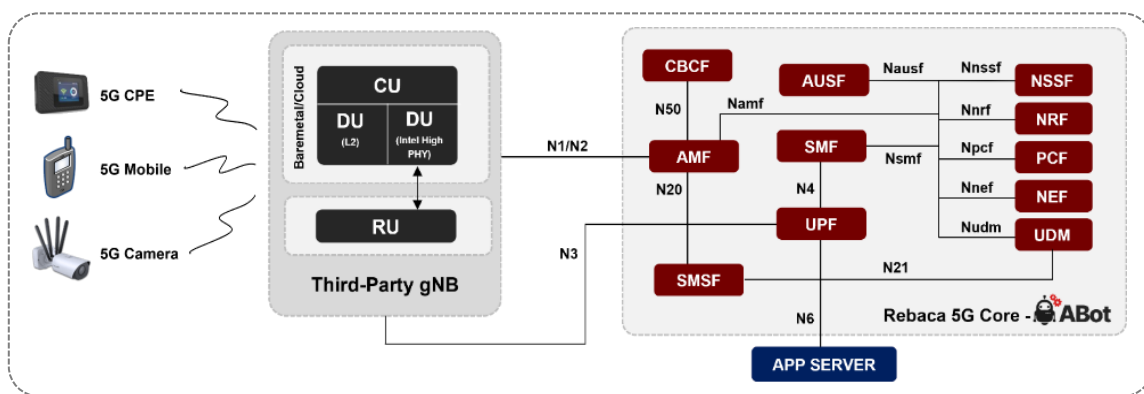




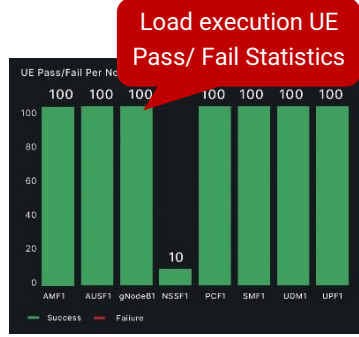
A lightweight 5G Core for Labs

By Rebeca Technologies

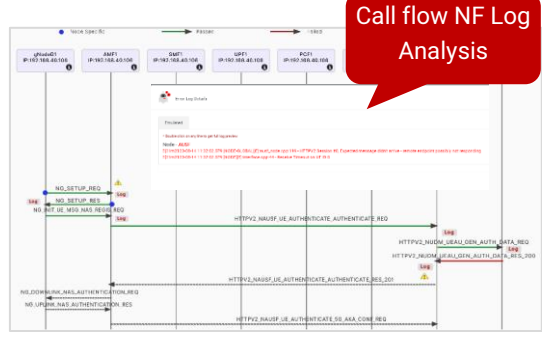
ABot5GC is a **3GPP compliant 5G Core**. It can integrate with any **standard compliant RAN**. ABot5GC+gNB will create an ecosystem for various application development to test different use cases. It is highly **customizable, economical, and easy to maintain**. New use cases and scenarios can be incorporated rapidly to facilitate innovative research work. ABot5GC is **light-weight and cloud native**. It can be deployed in **various environments, including edge devices**. It comes with analytics backend for **deep insights** on executed 5G procedures, PCAPs, Logs, and KPIs. The analytics engine has a data lake and uses an ELK stack with APIs for **AI/ML model development**.



System monitoring & Alerts



Load execution UE Pass/ Fail Statistics



Call flow NF Log Analysis

Features:

- Supports 3GPP Release 15 and 16 procedures on the N1 + N2 interfaces.
- Supports various QoS and Network slice-specific use cases.
- 5G Lab on COTS affordable H/W or Cloud platform.
- Low maintenance overhead with web-based EMS.
- Root cause failure analysis to facilitate learning and 5G solution development.
- The Application Server and Client App. interacts over standard 5G network interfaces and messages.
- Facilitate creative application development while abstracting 5G NF related implementation details.

Possible Use cases:

- Video Streaming
- Network Security
- Drone
- AR/VR
- Smart City
- Surveillance
- Collaborative Applications
- Health Care
- Agriculture



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