

AccuKnox 5G Security

Zero Trust Security for 5G Networks



Key Value Proposition

- End-to-End 5G Protection**
O-RAN, 5GC, Private 5G coverage
- Zero Trust Runtime-First**
Runtime enforcement & verification
- Multi-Layer Defense**
Infra, Network, App, Identity protection

Comprehensive Compliance 3GPP, MITRE FiGHT, NIST, NSA

What is 5G Security?

AccuKnox 5G Security continuously monitors, enforces, and hardens 5G RAN, Core, and Edge workloads to prevent RCE, lateral movement, and misconfigurations. It operationalizes Zero Trust in 5G by ensuring no workload is inherently trusted and enforcing runtime verification.

AccuKnox in 5G Ecosystem

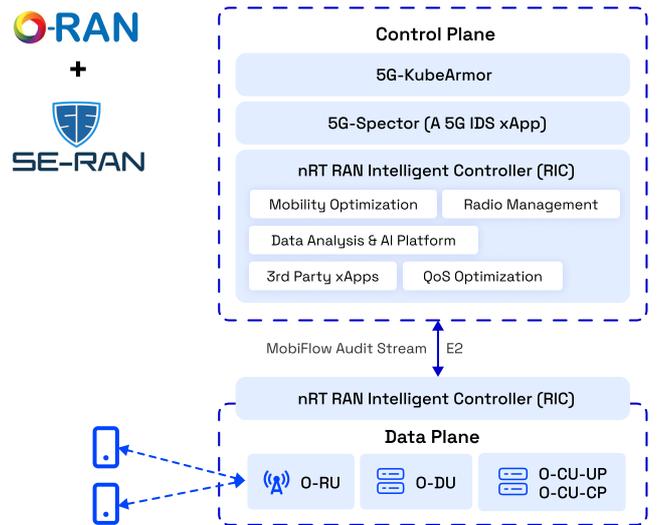
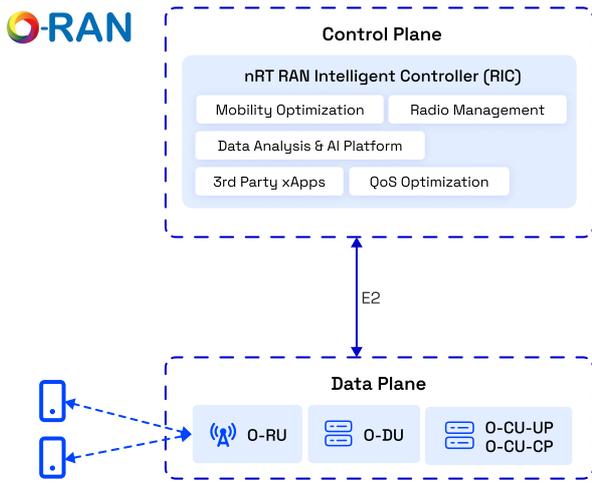
- LF Nephio TSC member, SIG-Security chair
- 5GSec.com contributor (with Stanford, Ohio University)
- RedHat Telco Partner
- intel Intel Smart Edge Partner
- NSF DoD 5G Security Awards

Use Cases

- Secure O-RAN control plane (RIC, xApps, rApps)
- Enforce Zero Trust in network slicing
- Protect MEC and local UPF workloads
- Risk assessment & compliance automation
- Supply chain assurance with provenance & runtime checks



Zero Trust Security Across 5G RAN, Core, and Edge



Why AccuKnox 5G Security?

- Security Capabilities**
 - Mitigates RCE, auth bypass, lateral movement
 - Hardening for Open5GS, Free5GC, OAI components
 - Complete observability: Network, process, file, syscall visibility
- Proven Platform**
 - Integrated tooling: KubeArmor, Nimbus, K8TLS
 - Proven deployments with industry leaders:
 - TATA ELXSI
 - Rakuten
 - aws

Technical Requirements

- Deployment Models**: VM, Bare Metal, Containerized, Hybrid
- Enforcement**: 5G-KubeArmor, Zero Trust policies
- Confidentiality**: Nimbus confidential containers
- TLS Security**: K8TLS for FIPS/NIST compliance
- Monitoring**: Real-time workload alerts
- Risk Assessment**: NSA K8s Hardening, MITRE Caldera

How It Works



Customer Testimonials

Dr Suchakra Sharma, Chief Scientist (privado)
Being part of the founding architecture layer of KubeArmor (1.2+ Million downloads), I can safely vouch for any Kubernetes, DevSecOps and Container security practitioner to leverage intelligence provided by AccuKnox CNAPP. One stop shop for the requirements in compliance and tracking adverse vulnerabilities.

Rajagopalan Rajappa, CTO, Communications (TATA ELXSI)
In the 5G and Cloud security partnership with AccuKnox, we want to offer Telcos a solution that simplifies the complexity of deployment while also being secure and resilient. This strategic partnership helps operators roll out secure 5G networks with inline mitigation and makes the network future-ready for 6G.

O-RAN, 5GC, Private 5G

Contact AccuKnox today to see 5G Security in action and learn how Zero Trust runtime enforcement protects RAN, Core, and Edge workloads in real time

- Compliance-ready
- Proven in production

About AccuKnox

AccuKnox is a Zero Trust CNAPP provider protecting multi-cloud environments, Kubernetes, VMs, and edge infrastructure.

