PrismStack™

A Blockchain Enabled Dynamic Spectrum-as-a-Service Edge Communications Radio Access Network Stack

PrismStack™

- **Enabling Dynamic Spectrum Management and Superior Electromagnetic Compatibility Performance for your wireless networks**
- **Economizes spectrum utilization and manages network quality of service reducing network costs**
- **Provides a capitally efficient solution for complex spectrum management and electromagnetic interference control**

NETWORK FREEDOM

PrismStack™ untethers network providers from centralized network architectures by allowing the freedom to manage their own decentralized network resources via distributed control and DSA.

MONITIZABLE

ANDRO's patent-pending process of automated spectrum governance and Hyperledger fabric technologies provides rapid and timely spectrum and network tracking enabling real-time performance and monitization.

COST EFFICIENCY

PrismStack™ improves the efficiency of the current business model by reducing the need for centralized infrastructure, data carriage, and storage costs.

SIMPLE TO USE

PrismStack™ is plug and play compatible reducing provider adoption costs by making installation, setup, and maintenance easy for the user - no confusing setup to launch network operations. Simply install PrismStack™ onto any typical software defined radio network. No recertification of radio hardware required for dynamic spectrum governance.

✓ Operates as a decentralized or distributed RAN architecture with associated services that meets the needs of multiple applications with diverse requirements running simultaneously in a M2M network.

✓ Builds an RF spectrum profile and executes network services to move and manage data without interference.

✓ Distributed governance and ajudication at the edge using artificial intelligence and machine learning (AI/ML) to ensure quality of service (QoS) needs via proactive, predictive routing mechanisms.

PROVEN PERFORMANCE

✓ Modeling and emulation used to predict performance at scale, demonstrating:

- Scalable to large networks (100s of nodes).
- Real-time performance with low latency (msec).
- Estimated 10X minimum aggregate performance improvement - *throughout, spectral efficiency, reliability.*
- Enhanced fault tolerance and security.

PrismLink™

A TURNKEY SOLUTION THAT INCLUDES PRISMSTACK AND PRISMAUDIT

PrismLink™ is a software-defined radio designed to host PrismStack™ software to provide a complete turnkey RAN product. Application developers and application providers can realize the technical performance and economic savings of using a PrismLink™ solution.

EASY TO DEPLOY   EASY TO SETUP   EASY TO MAINTAIN

- ✓ Compatible with any typical IP-based network provider interface

- ✓ Compatible with typical software defined radio architectures as embedded software

- ✓ Spectrum band agnostic

- ✓ Chipset & RFIC compatible

OTHER ANDRO TECHNOLOGIES, PRODUCTS & SERVICES

- E^3 Expert Computational Electromagnetics (CEM) Toolkit for cosite analysis

- AI/ML-based Link Radio Family:
  - SpearLink™ for automated IoT-based EMI and telecommunications test ranges
  - ArrowLink™ small form factor transceiver for EMI-free robotic rescue, survey, and maintenance
  - DeepLink™ multitask reinforcement learning framework for signal intelligence and electromagnetic spectrum awareness

- General Purpose Processor (GPP) Waveform Development Kit

- R&D in Command, Control, Communications, Computation, and Cyber for Intelligence, Surveillance, and Reconnaissance (C^5ISR) applications

ANDRO

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