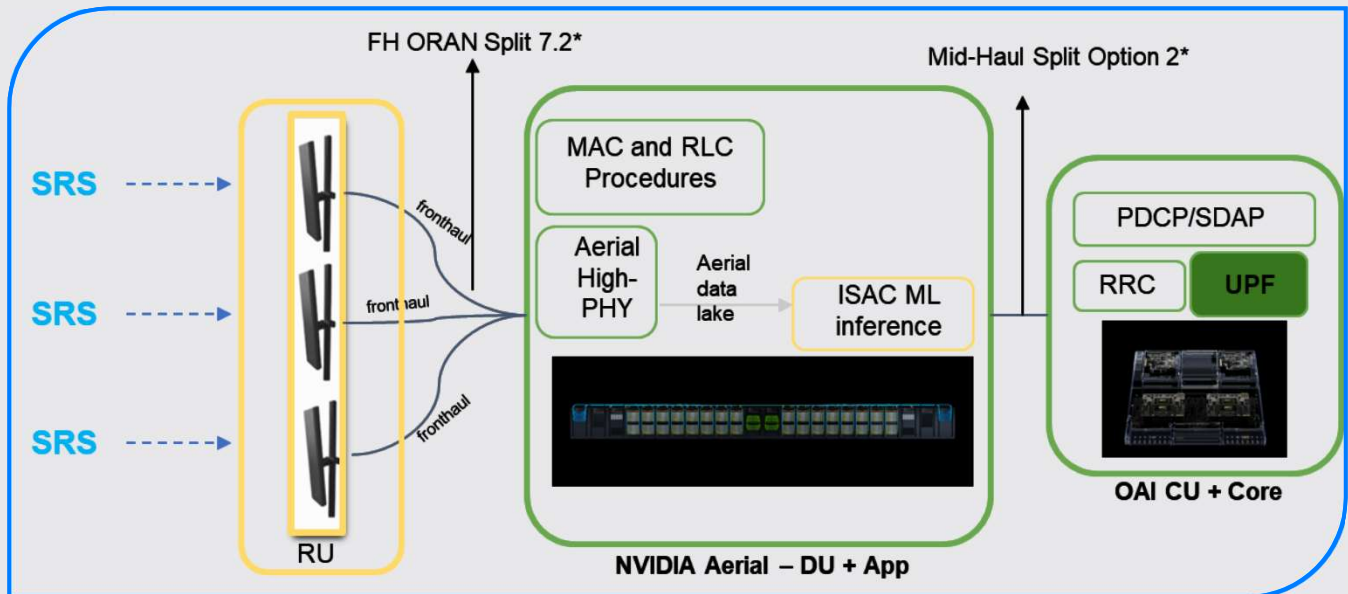


# PolyRAN™ Cooperative ISAC Platform



## INTEGRATED SENSING AND COMMUNICATIONS (ISAC)

PolyRAN extends Tiami's ISAC architecture from edge sensing to network-wide cooperative awareness. By linking multiple base stations into a shared sensing framework, PolyRAN enables cooperative ISAC - where communication nodes exchange and fuse signal reflections to perceive the environment collectively.

The result is large-scale spatial awareness that strengthens security, improves traffic management, and enhances smart infrastructure. Built to align with emerging 6G and O-RAN standards, PolyRAN turns the radio access network into a network-scale sensing layer.

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## KEY BENEFITS

- Network-Wide Coverage
- API-First Architecture
- O-RAN & 6G Aligned
- Camera-Free
- Edge-Cloud Fusion

## USE CASES

- Multi-Cell Drone Detection
- Traffic Flow Analytics
- Crowd Density
- Perimeter & Airspace Monitoring
- Smart City Infrastructure

## COOPERATIVE DETECTION

A private 5G base station equipped with PolyRAN detects two RF-silent drones by leveraging cooperative ISAC.

Signal reflections from multiple cells are fused at the network layer, enabling detection of targets that are not emitting or receiving RF signals.



## About Tiami Networks Inc

Founded by seasoned professionals from industry leaders such as Ericsson, Verizon, Qualcomm, and Meta, Tiami Networks is a visionary startup based in California. With deep-rooted expertise in telecommunications, its team is dedicated to revolutionizing the global 5G landscape. Its mission is to transform the 5G system into the world's largest distributed radar network, harnessing this technology for consumer and commercial applications. By integrating advanced AI and radar technology with 5G networks, Tiami Networks aims to create smarter, safer, and more efficient environments, enhancing connectivity and data analysis capabilities across various sectors. Our commitment to innovation positions us at the forefront of the next wave of technological advancements, poised to redefine the future of communication and environmental intelligence.

## Connect

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