

UNITe: Unified Network Integration for Terrestrial and Non-terrestrial Communications – Phase II

Telco Monetization challenge: Revolutionize enterprise connectivity by transforming networks into dynamic platforms for 5G B2B solutions through open, standardized APIs. Achieve a 20% annual increase in API-driven revenue

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Champions:

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The solution:

This Catalyst enhances traditional system architectures by integrating cellular and satellite networks, enabling seamless connectivity for real-time monitoring of high-value shipments like perishable goods, pharmaceuticals, and defense supplies. The solution boosts efficiency, reduces losses, and ensures product integrity across the global supply chain.



Addressing the challenge:

- A globally scalable, standards-compliant hybrid connectivity platform integrating satellite and cellular networks:
- Smart Containers: Monitor temperature, location, and condition of goods to prevent spoilage and waste.
 - 3GPP-Compliant System: Adheres to global standards (3GPP Rel. 17 TN-NTN), ensuring interoperability and scalability.
 - Global Coverage: Combines terrestrial and non-terrestrial networks to provide constant, seamless connectivity.
 - Sustainability Impact: Reduces losses, improves supply chain reliability, and supports environmental goals.

Champions:



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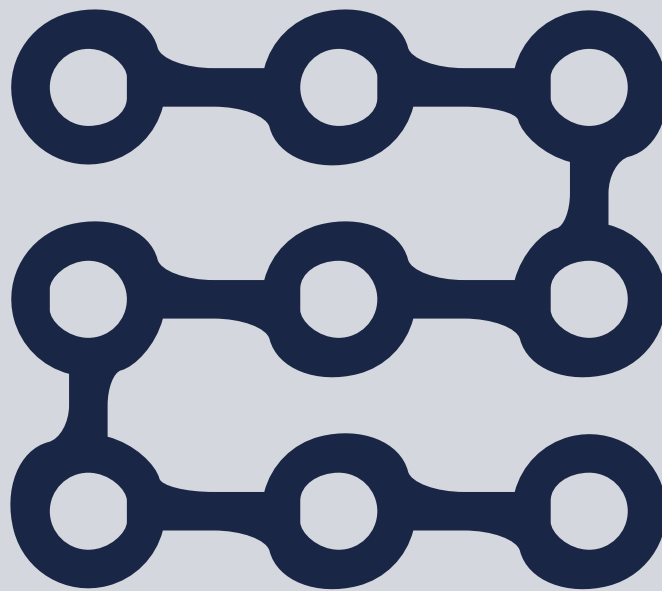
Cellular-satellite interworking
enables ubiquitous supply chain
coverage



99%
Remote reach



95%
fewer SLA violations



Cold chain excellence

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Vimal Mehta
Senior Technology Architect



The most important direct benefits the project could achieve include:

- Improved quality control & compliance
- Global connectivity (cellular and satellite integration)
- Regulatory compliance (pharmaceutical products)
- Disaster response and humanitarian aid
- Rural market opportunities
- Industry innovation & digital inclusion promoting access to services, education and economic opportunities in remote regions
- Consumer trust and risk reduction.

Champions:



Participants:

