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Evolving to full network autonomy

AN L4 challenge: Empowering Level 4 autonomous networks to self-optimize, self-heal, and deliver unparalleled efficiency with zero-touch intelligence. Reduce operational costs by 30% through automation

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- Challenge Overview
- Business Impact
- Project Value

Champions:

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Participants:

Infosys · Microsoft · NOKIA · qvantel · Red Hat

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The solution:

This Moonshot Catalyst showcases a fully autonomous Level 5 network, leveraging enhanced observability, knowledge graphs, and AIOps-driven closed loops to detect, diagnose, and resolve issues autonomously. It boosts CSP service quality, drives efficiency, and sets a new industry benchmark for scalable, intent-driven networks.

Addressing the challenge:

This Catalyst project pushes the boundaries of digital operations by demonstrating a fully autonomous network at Level 4 capability.

- Uses Digital Twins to test configurations, reduce failure risk, and accelerate sales by improving service feasibility checks.
- Implements an intent-based framework (Intent ▸ Awareness ▸ Analysis ▸ Decision ▸ Execution) for autonomous operations.
- Integrates observability, knowledge graphs, and AIOps for self-detection and resolution of network issues.
- Leverages Generative AI to boost service quality, responsiveness, and scalability.
- Sets a new standard for intent-driven, adaptive networks that enhance efficiency and customer experience.

Champions:

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Advance to sophisticated network operations

Superior customer experience

Cost optimization with

99%

first-time right service delivery

Champions:

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Sebastian Zechlin
Lead Architect OSS

> **Achieving full network autonomy will enable DT to deliver superior quality to our customers, unlock new business opportunities, and accelerate time-to-market. By enhancing operational efficiency, autonomous networks will drive significant value across our operations. We believe intent-driven networks are a key enabler for advancing automation and realizing this vision of complete network autonomy.**

Champions:

Participants: