

## End-to-end service realization using intent-based networks

**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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### The solution:

This Catalyst demonstrates how TM Forum Open APIs and business intent can be employed to automate CSPs' service management layer, including the rApps used to optimize network traffic. By moving beyond single use cases to automate the entire multi-layer network operation stack, the project is aiming to increase efficiency and reduce CSPs' operational costs.



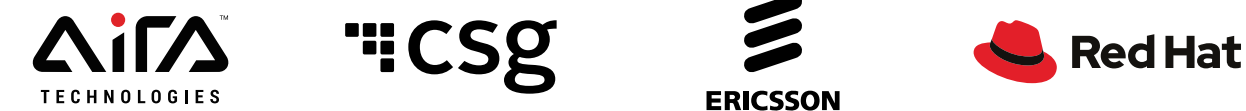
### Addressing the challenge:

- The focus on is on optimizing network slices for video streaming during live events, while another intent is executing a CSP strategy for energy efficiency.
- Converting customer and operator intents into automated network adjustments to reduce manual intervention and costs.
  - Introducing intent in rApps, allowing them to autonomously manage resources, self-optimize, and self-heal, minimizing human oversight and expenses.
  - Coordinating actions between rApp, detatcing and managing conflicts using real-world examples.
  - Implementing continuous monitoring and automatic configuration changes to maintain performance and cut operational disruptions.
  - Utilizing TM Forum and ORAN standards for seamless automation that enhances efficiency and reduces costs.

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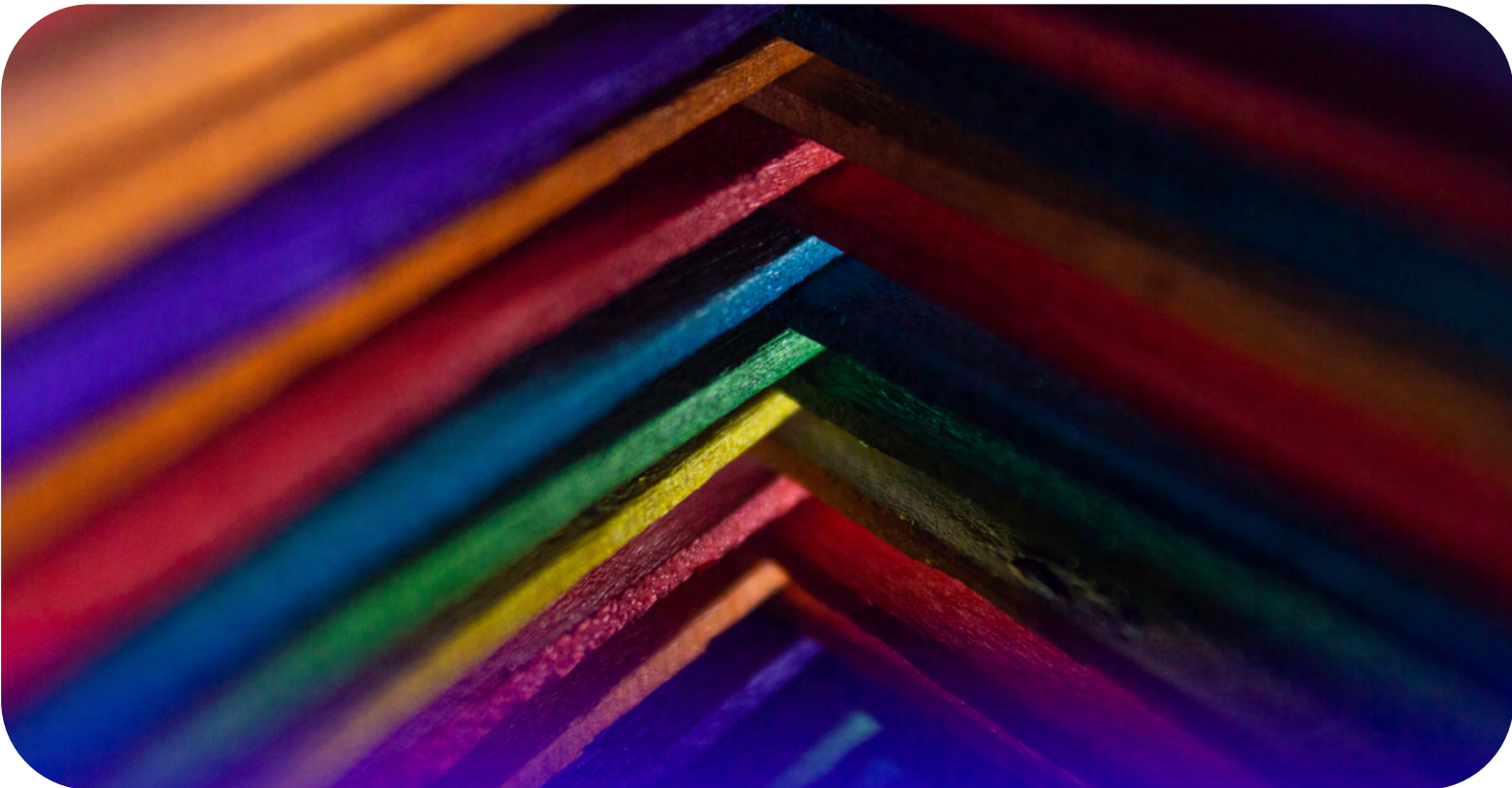
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**Mark Sanders**  
Chief Architect & Executive  
Autonomous Networks  
Enablement



This Catalyst demonstrates the practical implementation of TM Forum Open APIs and intent-based management across multiple layers – from business objectives through service management to rApp deployment. By spanning the entire network operations stack, it showcases how true network autonomy can be achieved beyond isolated use cases, enabling a comprehensive, business-value driven operational model.

Champions:



Participants:

