UNLEASH THE POWER OF LIMITLESS CONNECTIVITY
Operational Transformation

The evolution towards Autonomous Networks

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Digital Transformation: From CSP to DSP

Network becoming more Complex

MSO + MNO = CSP

Digital Service Provider

Infrastructur e-centric

AIOps

Service-centric
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Overview: AIOps, AI to assist Human operation and maintenance
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Hype Cycle for Monitoring, Observability and Cloud Operations, 2021

[Diagram showing the Hype Cycle for Monitoring, Observability and Cloud Operations]

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Digital Transformation: Microservices, path to 5G/MEC/10G and AIOps

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Source: https://www.ibm.com/cloud/blog/aiops-a-path-to-reliability-at-cloud-scale
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AIOps: Logical Architecture

- Business Value Dashboard
- Operations Center
- DevOps

Applications for IT and Business Users

Presentation Layer (Visualization and NLP)

Analytical Learning Engines
(Pattern Discovery, Anomaly Detection, Machine Learning, NLP)

Deep Analysis
Real-Time Analysis

Storage
Data Collection

Data Sources (Private and Public)

ITOM Tools and Other Applications

API Access
Consume
Provide

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AIOps and AIOps Service Management

Customers/End-Users

AI-Enabled, Real-Time Operations, Intelligent Operations (AIOps)

AI-Enabled Business Operations

AIOps Service Management

Application Layer

- AI-based BSS
- AI-based OSS
- AI-based Data Analytics
- AI-based ERP
- 3rd Party AI Services
- Other AI apps
- ...

Autonomous Infrastructure

Source: TM Forum
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What is Autonomy?

“Autonomous networks, put simply, enable our engineers and technicians to go off and chase really interesting problems, leaving the less interesting problems to be operated by software systems”
## 6 Levels of Autonomy

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Source: TM Forum
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Humans are part of the AN

AN frees human operations from particular routine tasks and even alleviates some decision-making workload.

AN takes human operations from being “in the loop” to being supervisors “on the loop”
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Knowledge Plane
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Knowledge Plane Integration
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Capabilities of the different automation techniques

AIOps at Telecom Argentina

There are a few initiatives that we have considered within the AIOps framework

Nowadays, as a STEM team one of our missions is to lead AIOps in our current and future networks. Our recipe within STEM team is diversity, work in cells, agile mindset, and self-learning

• Ada

• Customer claim prediction
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Customer claim prediction
Conclusions

Without AIOps 5G and 10G will simply be more of the same
Thank You!

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