Next Service Orchestrator Generation

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Telecom Sector
What we do

Creating business advantages for clients with our global IT services

Atos is a leading player in global Information and Communications Technology services, software, platforms and payments solutions. With its deep technology expertise, Atos drives business progress for its clients to achieve measurable results.
Future networks

- “Hyper-connected world” driven to a better use of the network possibilities
- New orchestration requirements
  - flexibility
- Anyone-Everywhere
- Balance investments from stakeholders
- Dynamically network process
Operating Networks and Services

• Interconnected world, automatically adapt infrastructure for smart services

• Big Data and Data Analytics
  – technology and business transformation
  – anticipate customers needs

• 5G Digital transformation
  - vendors and providers

• Network complexity
XG vision - Terms

Prediction

Flexible and elasticity

Planning

Emerging technologies
Challenges

Service Communication products from wide range of stakeholders

- **MANO** architectures should be **flexible**
- Low cost: **Onboarding, testing and verification**
- Complexity in **service lifecycle**
- **Agile working** frequent incremental changes in an open and trusted manner
- **Recursive deployment** to support **multitenancy**
- OSS systems should evolve **3rd party service components** interfaces
Data analytics and Policies for network self-healing and self-organization:

• Policies will define operations for different domain controllers providing **activation and remediation functions**.

• **Network self-healing** will be a capability of OSS remediation and discrete and composite levels.

• **Self-organization** will be achievable through micro-service orchestration controlled by internal and external agents.

• **Monitoring use of network** will provide information about customer demand over large locations.

• Include new technologies, such as **Galileo navigation**, will gave new insights for the vertical sectors.
Densification vs Rural areas

- Developed countries but also developing ones
- Cost efficient deployment
- Use of spectrum
- Increase use of Backhaul
Greener communication

- Footprint
- New actors
  - Energy producers
  - IT companies
  - Brokers
- Interconnection of electricity networks
- Distributed Energy Resources (DERs)
- Forecast generation and consumption
Questions?
Thanks

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