

OSS integration and cloudification

Improve time-to-market for new services



Atos

As operators roll out 5G, incorporate virtualization across their networks and enable advanced business services, many have decided to move OSS functionality to the cloud. Nearly 90% of operators have deployed some amount of OSS functionality in a combination of public, private and vendor cloud platforms¹. While transitioning OSS to the cloud is advantageous, many existing solutions were not designed for the cloud and few have been integrated. As a result, the number of OSS environments and proprietary interfaces continues to grow — rather than shrink — which increases costs.

Going forward, all networks are hybrid and there OSS will need to manage both traditional and cloudified environments. There is also a requirement to consolidate OSS and implement an end-to-end solution in the cloud. Cloudified OSS enables operators to manage and configure both physical and virtual network elements to ensure reliability and understand the impact of failures before customers are affected.

Cloud OSS offers agility to operators as they implement automation to improve time-to-market for new services and rapidly configure or modify customer configurations. For business customers,

operators require a multi-tenant OSS solution that can be deployed in the cloud, so each business is managed independently and configuration changes are executed on-demand.

In some cases, legacy systems are being replaced with new cloud-ready solutions. However, even with a full replacement, there are mountains of data and legacy interfaces that must be integrated into the cloud OSS. In other instances, operators are re-architecting existing solutions to be cloud-enabled. But again, all data and interfaces must be aligned to work with new cloud versions.

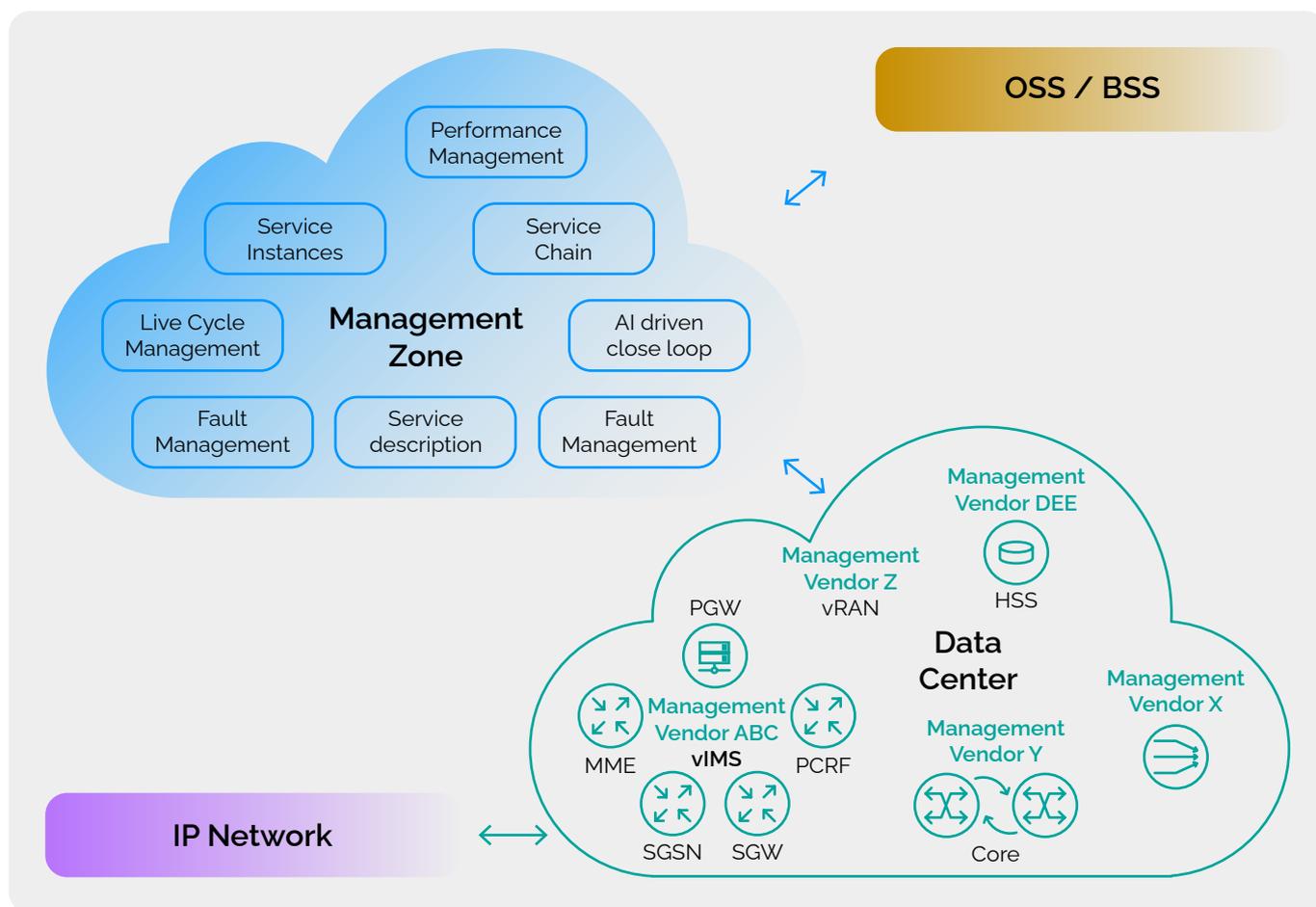


Figure 1: Hybrid operations environment for cloudification

A proven approach to OSS integration and cloudification

Operators recognize the business and operational value in moving OSS functionality to the cloud, but not all OSS is ready for or adaptable to the cloud. There are challenges associated with

managing a network made up of both physical and virtual elements. Whether managing cloud infrastructure or moving OSS functionality into the cloud, operators are confronted with data

and interface challenges that must be solved to implement an OSS solution that is responsive to hybrid networks.

1. DSP 2020, A survey of digital transformation progress of 100 operators from around the world, ICT Intuition, LLC, 2020

The Atos cloud approach explores whether legacy applications are ready for cloudification before creating a roadmap for the journey to a cloud-native architecture. The result is a structured plan for OSS cloudification that optimizes existing solutions, delivers the business advantages of cloud solutions and meets regulatory requirements for data security and access.

Atos OSS integration and cloudification draws on an extensive library of interfaces and integration expertise to help operators migrate from legacy solutions to the right mix of new technologies and environments — up to and including cloud-native architectures.

Atos OSS integration and cloudification

- Right-size analysis of cloud OSS requirements and readiness
- Cloud migration roadmap from legacy OSS to cloudified OSS
- End-to-end OSS modernization
- Integration of OSS for physical and virtual network and service elements

Atos OSS integration and cloudification delivers a combined physical and virtual OSS infrastructure that enables operators to launch 5G, multi-access edge services. Cloudifying OSS solutions requires a unique combination of expertise with public and private cloud architectures, OSS legacy and emerging solutions, proprietary and standardized interfaces, as well as knowledge of regional regulations and options for cloud data storage and security. Atos delivers future-ready OSS that optimizes network and service management today while establishing a foundation for development and automation in the future.

The vendor-agnostic Atos approach relies on deep experience with a wide variety of network, virtual and cloud OSS technologies. Along with global industry-leading partners, Atos delivers integrated and optimized OSS integration and cloudification solutions both for and in the cloud. Atos works with each operator and its unique OSS transformation strategy to implement and integrate cloud-based OSS solutions to manage hybrid network assets.

Atos OSS integration and cloudification delivers:

- Application agility and performance across physical and virtual environments
- Flexible architecture for controlling network element command execution, enabling OSS function and workflow automation
- An open environment to readily enable future development and modification
- A global network of industry-leading partners
- Improved business outcomes

Using open, agile and proven software development and integration processes; Atos OSS transformation delivers a significant reduction in capex and opex by industrializing end-to-end network and service management with a team of more than 8,000 experienced telecom software architects, designers and developers.

Partnerships

Over 40 major OSS transformation projects in five years



Agility

Migrate toward a cloud-native architecture



Flexibility

Access multi-domain & multi-technology support



Future readiness

Protect legacy investments while preparing for the future



Openness & transparency

Leverage TM Forum Open APIs as well as 3GPP & ETSI standards

About Atos

Atos is a global leader in digital transformation with 107,000 employees and annual revenue of over € 11 billion.

European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), listed on Euronext Paris and included in the CAC 40 ESG and Next 20 Paris Stock indexes.

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Let's start a discussion together



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