

Service provisioning and activation

Intelligent mediation of vendor network elements
and OSS/BSS applications

Atos

Demand for network connections and capacity continues to rise. The diversity of services, number of devices and applications increase exponentially every month. Customers are using multiple devices to access multiple services across any access network infrastructure. In addition, the complexity of service models and the interdependency of service features and functions is also exploding. Customers want it all turned on right now.

Operators are in a precarious position, where economics require automation and consolidation of existing OSS, while customer demands require capabilities that are difficult to achieve using existing systems and data. By abstracting the BSS elements of order capture and catalog from the OSS elements of order decomposition, provisioning and activation, operators can reduce the complexity of provisioning complex services and activating both consumer and business orders.

Atos has developed a flexible integrated solution for provisioning, service activation and mediation across new and existing physical and virtual networks. PSA Lite, the Atos provisioning and service activation solution, enables automation and simplification of service and device activation workflows using existing OSS, enabling operators to integrate next generation infrastructure without interrupting ongoing services.

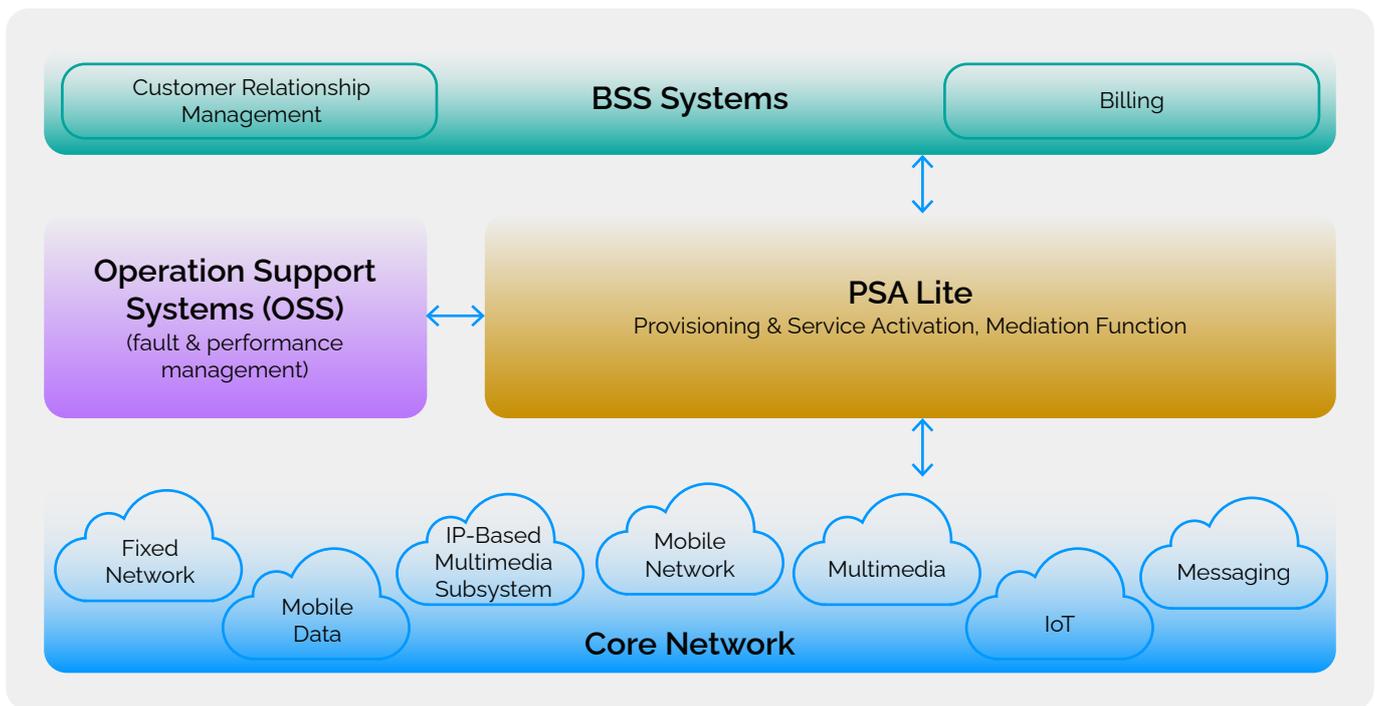


Figure 1: Atos PSA Lite mediates between provisioning interfaces and provides a platform that easily swaps network elements from different vendors

Simplifying service provisioning and activation with Atos PSA Lite

When it comes to decomposing a service order and connecting all the right pieces, operators must navigate a complex matrix of provisioning and activation processes and solutions. Each collection of physical and virtual network elements has its own configuration process. Numerous interfaces and element managers must be aligned to deliver each piece of the order — especially for business orders.

Until now, the uniqueness and complexity of business service provisioning and activation has been addressed by applying expensive

resources and manual processes to each individual business order.

Bridging the gap between OSS and BSS to rapidly provision and activate services in a hybrid network environment requires:

- An architecture that divorces BSS from OSS
- Replacing a confusing array of interfaces and integrations with a centralized environment for accurate service provisioning, order decomposition and activation

An operator's ability to rapidly activate new services and connect customers relies on exposing its OSS to multiple types of infrastructure without the need for massive integrations or software development. PSA Lite uses enterprise service bus (ESB) principles and interface emulations to deliver a common interface for network elements, minimizing the number of integrations required between network elements, element managers and OSS/BSS.

Atos PSA Lite enables fast and consistent service activation, regardless of the type of network. It intelligently mediates between multi-vendor network elements on one side and OSS/BSS applications on the other — making even complex services easier to provision and manage. PSA Lite is a truly flexible solution that can adapt to future 5G challenges — including network slicing, which is quickly becoming the basis for many business services.

Atos PSA Lite is a comprehensive vendor-agnostic solution that automates and simplifies service activation workflows in even the most heterogeneous network environments, allowing easy migration to next generation infrastructure. PSA Lite makes service activation faster and more efficient, reducing opex and time-to-market for new services. It minimizes the transition costs while ensuring service continuity.

Atos PSA Lite

- Network and device-agnostic provisioning and service activation
- Intelligent mediation between multi-vendor network elements and OSS/BSS
- Extensive network element connector library
- Open APIs

In addition to PSA Lite, Atos can provide strategy development, planning, integration and development for service provisioning and activation on a variety of platforms and use cases. Our vendor-agnostic approach relies on deep experience with a wide variety of service provisioning and activation solutions, as well as agile software development and ESB solutions.

Atos PSA Lite, service provisioning and activation delivers:

- Consolidation of multiple OSS vendors to a central solution for fixed and mobile networks
- Decoupling of OSS and BSS layers, enabling development agility
- Foundation for adding automation and intelligent workflow
- Rapid integration of new network technologies
- Accelerated time-to-market for new services

Along with a global network of industry-leading partners, Atos delivers integrated and optimized service provisioning and activation solutions that work with your existing networks and OSS. Atos works with each operator and its unique OSS transformation strategy to implement and integrate cloud-based OSS solutions to manage hybrid network assets.

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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