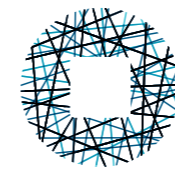


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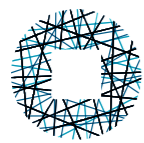


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# Network Activator

Automated service activation and Network mediation

Enabling processes automation  
Smoothly integrate network and OSS



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# Flexible activation & network mediation

Telco companies compete every day to improve their time-to-market and reduce operational costs, key aspects to maximizing revenues. This implies fast response between designing and launching new services which demands an agile adaptation to the technologies.

Traditionally Communication Service Providers (CSPs) have multi-service heterogeneous networks supported by equipment and technologies of different suppliers resulting in a very complex operational map.

An agnostic service activation and a mediation layer between the various operations support systems (OSS) and the network is therefore crucial to deploy new services quickly and accurately and also to facilitate the automation of network operation processes, enabling its execution almost without human intervention and in real time.

Operations like resource activation for services fulfillment, service tests, network actions, data collection, network event capture, network discovery can be automatically addressed thus streamlining the processes.



## References

### Customers:

- MEO (Portugal), Oi and VIVO (Brazil), CVT (Cape Verde), TT (East-Timor), MTC (Namibia), CTM (China)

### Motivation:

- Automating network operation processes;
- Reduce the impact on OSS as result of network evolution.

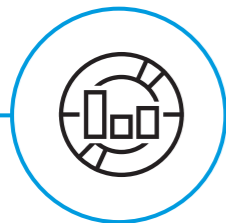
### Application scenarios:

- Fully automated provision processes;
- Support for real time assurance and self-care;
- Helping operational teams to automate network maintenance processes.

### Added value:

- Auto-correction and self-healing processes reduce customer calls;
- Decreases the number of manual activities performed on the network;
- Reduce costs on OSS projects, by isolating them from network details.

### Current market



Maintaining competitiveness and responding to customers' needs by designing and launching new services.

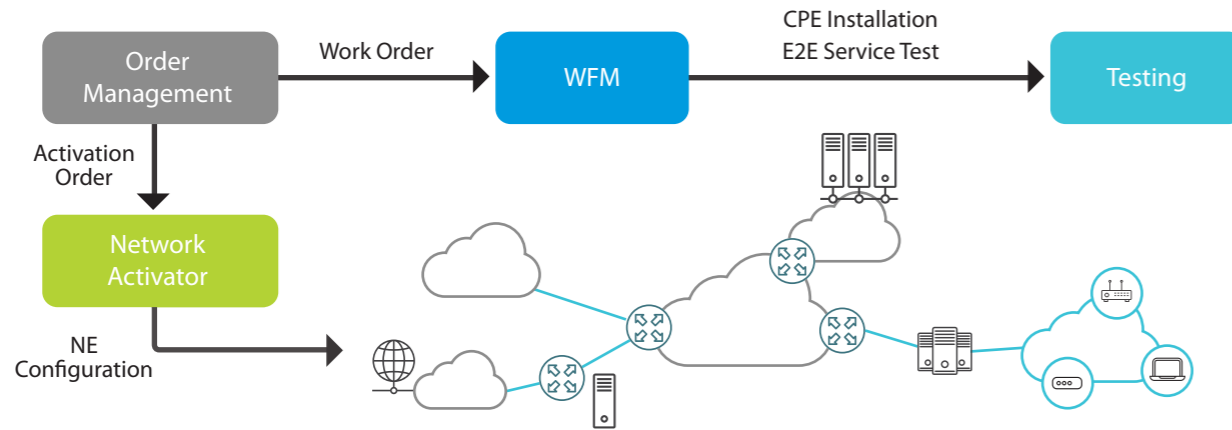
### Challenge



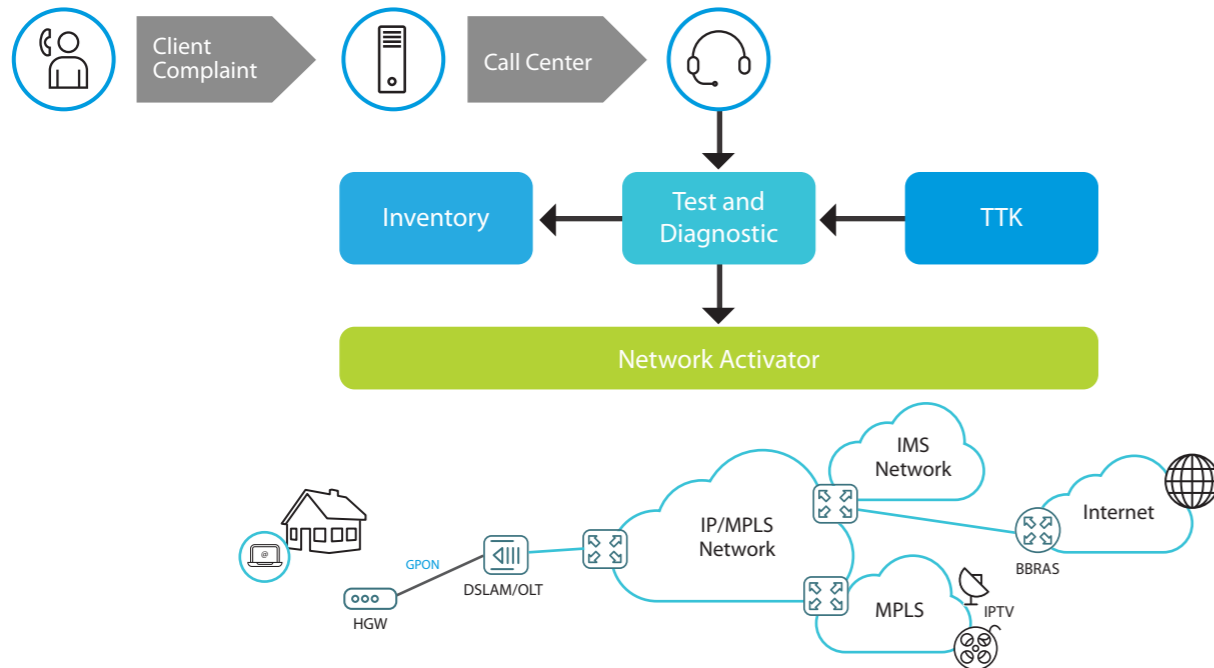
Most CSPs have multi-service heterogeneous networks supported by equipment and technologies from different vendors making it difficult to rapidly deploy new services.

# Use cases

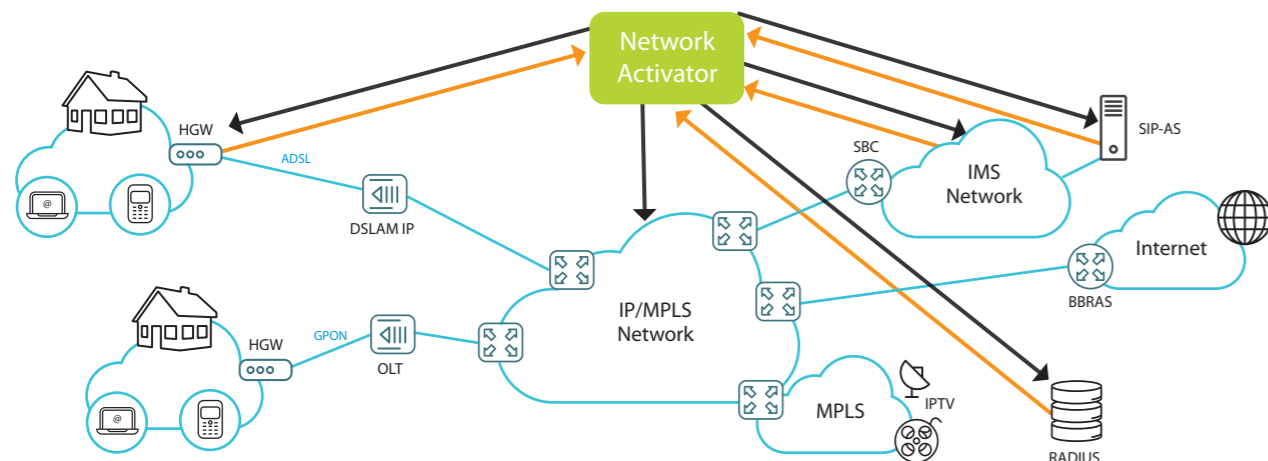
## Service provision



## Diagnostic



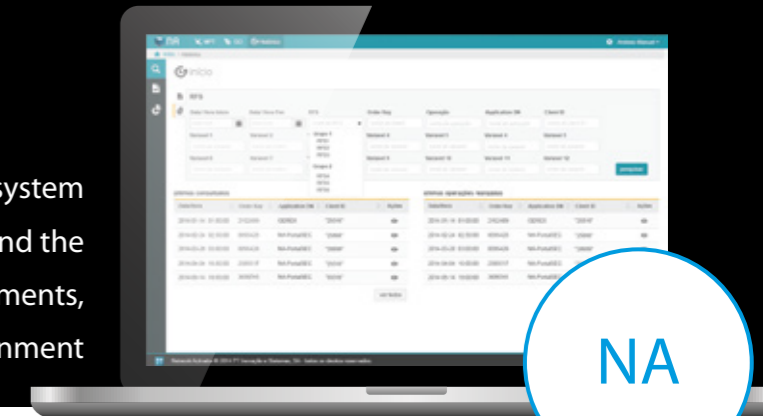
## Self-healing workflows



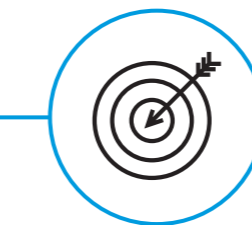
# Business benefits

- **Reduces time-to-market**  
Automates service activation allowing provision of new services quickly and accurately;
- **Increases competitiveness**  
Provides a flexible and complete mediation capability that minimizes the impact of network regular changes in the OSS and BSS systems;
- **Reduces costs (OPEX)**  
Minimizes manual activities, eliminating human errors and at the same time allowing fast integration of new technologies and network elements;
- **Increases customer satisfaction**  
Minimizes service's downtime by automatically monitoring service usage, enabling the execution of maintenance operations while the service is not being used;
- **Reduces complexity**  
Isolates all OSS from network and vendor specific details eliminating the need of having different implementations in the OSS systems – multi-vendor abstraction layer;
- **Grows with the business**  
Modular architecture, highly scalable and flexible that evolves according to the business and service portfolio;
- **Provides services stability**  
Captures network events enabling activities of network auto-correction and self-healing capabilities.

Complete mediation system operation independence between OSS products and the network elements, in a multi-technology and multi-vendor environment

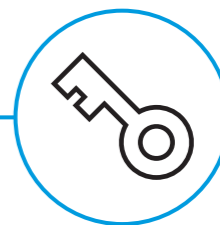


## Opportunity



Being able to automate network operation processes while reducing complexity and avoiding errors.

## Solution



Having a network abstraction layer, which smoothly integrates OSS and network elements allowing to operate, without human intervention and in real time.



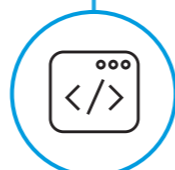
Who benefits from it?



Network operation teams



Engineering teams



Backoffice teams

## Key differentiators

- Combines in a single and unique solution fulfillment and assurance mediation activities;
- Agnostic solution for multi-technology and multi-vendor environments;
- Increases automation of network operation activities;
- Self-healing and network auto-correction capability;
- NA is part of TM Forum certified NOSSIS Suite.



Increase process automation

Reduce operational errors

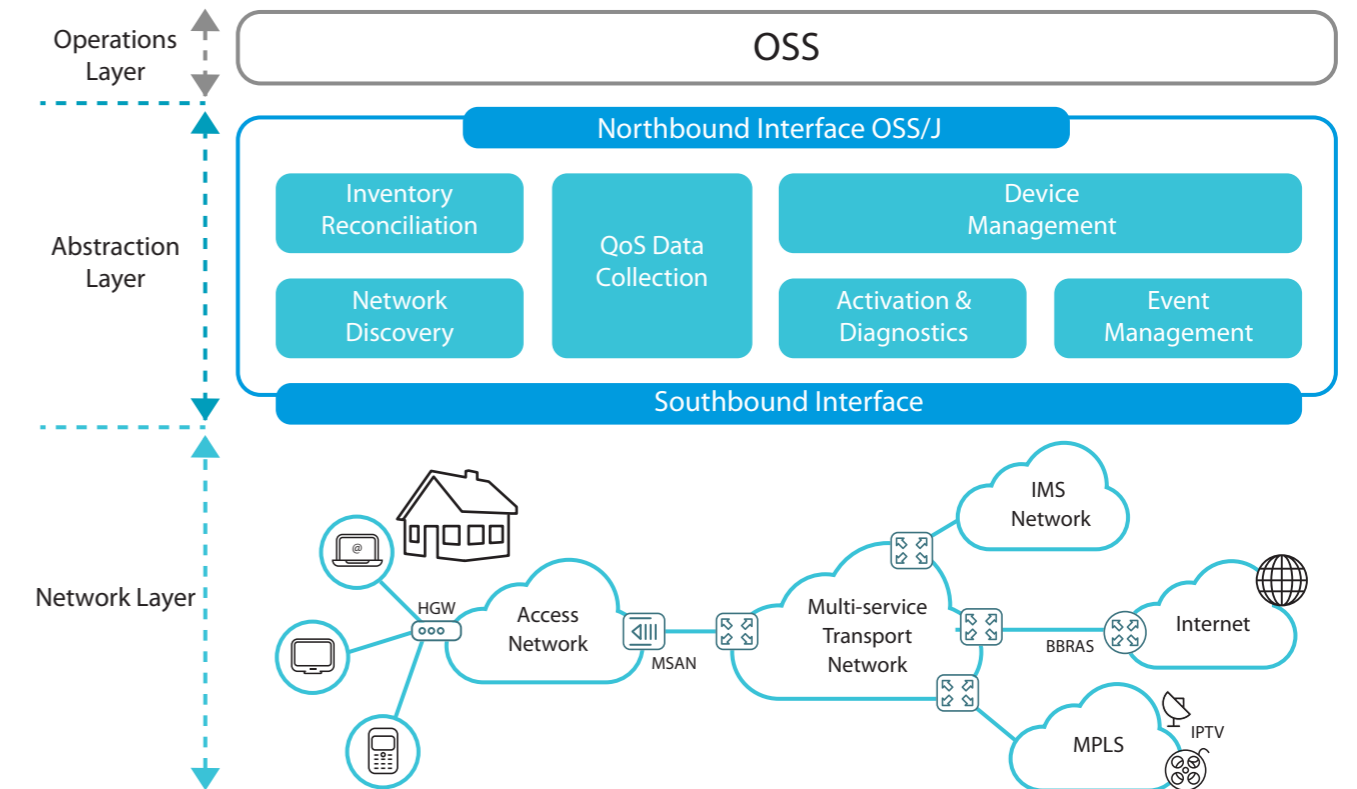


Reduce service time-to-market

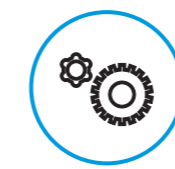
Accelerate incoming revenue

## The architecture

NA (Network Activator) provides an abstraction layer that smoothly integrates network elements with OSS. Its architecture was developed in order to expose a unique northbound interface aligned with TMForum references and composed of modules that ensure scalability, redundancy and security.

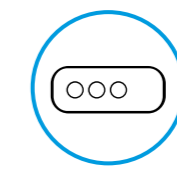


## Main features



### Generic features

- For multi-service, multi-technology and multi-vendor;
- Plug-ins configurable by technology;
- Isolating all OSS from network and vendor specific details.



### Device and event management

- Management and auto-configuration (ACS) of client devices (residential or enterprise);
- Execute automatically repair actions triggered by defined network events or alarms.



### Mediation and activation

- QoS and performance Data collection;
- Tests and Diagnostic Data Collection and repair actions;
- Real-time and bulk resource order provisioning.



### Discovery & reconciliation

- Network auto-discovery;
- Inventory reconciliation.