

**Automation
with
YANG model**

Quy Nhon – Oct 2022



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Flows of Configuring Process

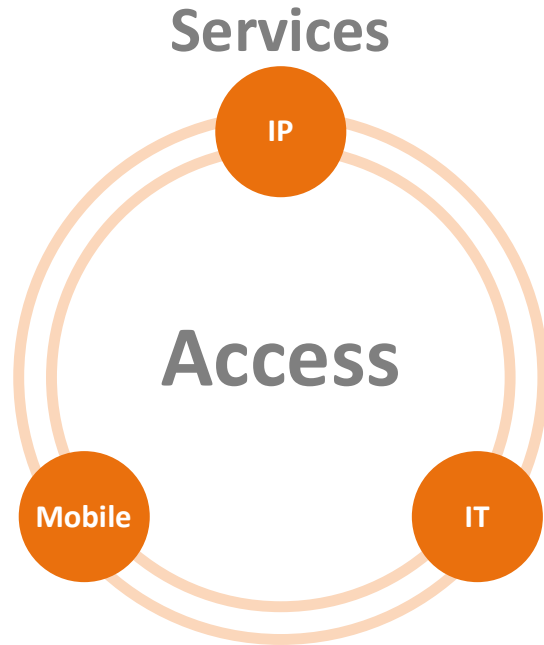
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Advantages

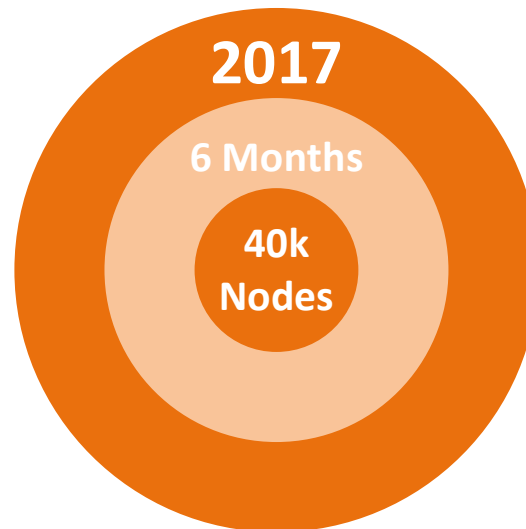
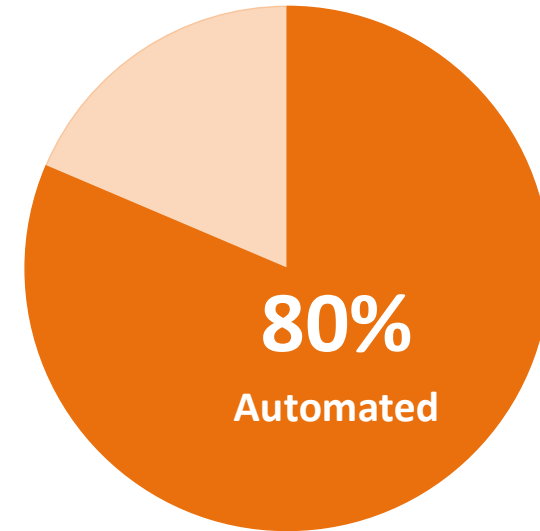
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Results

Automation in Viettel Before

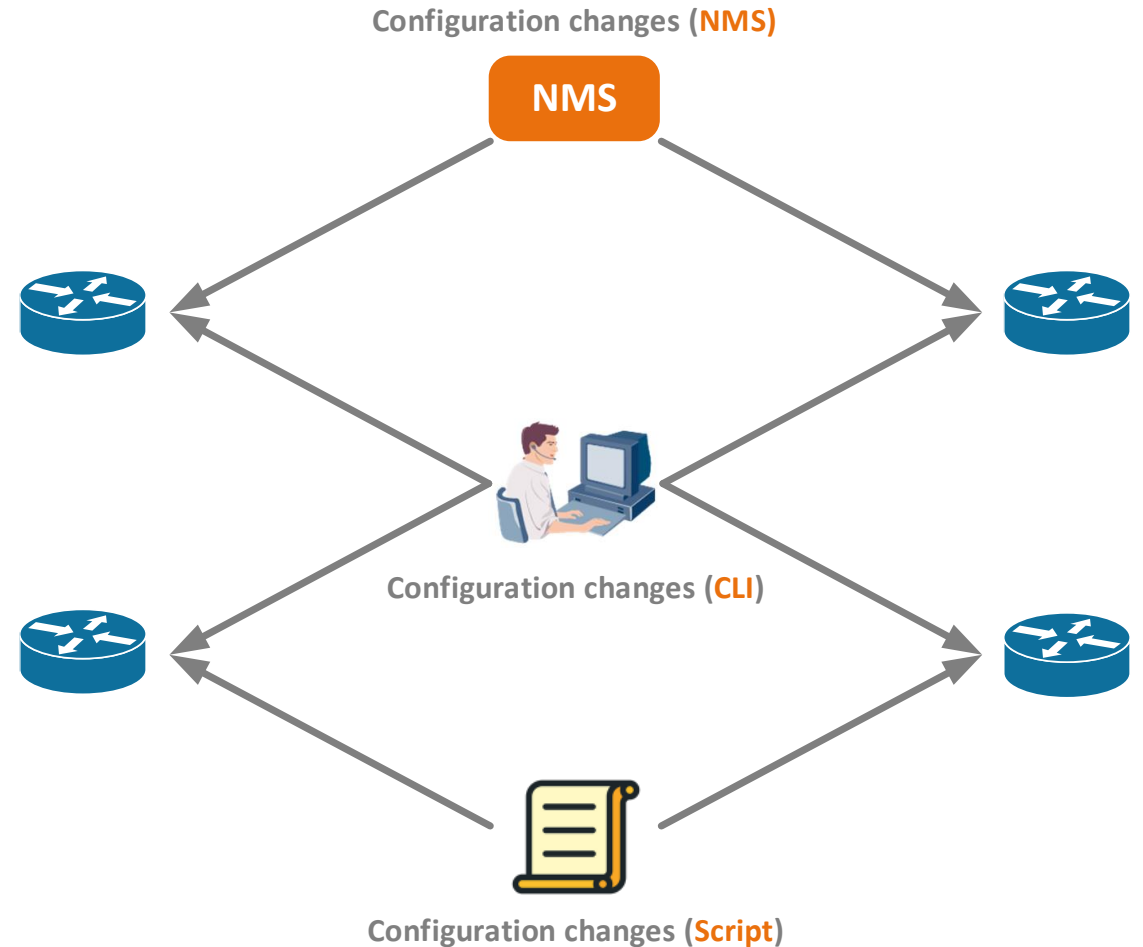


Configuration Changes



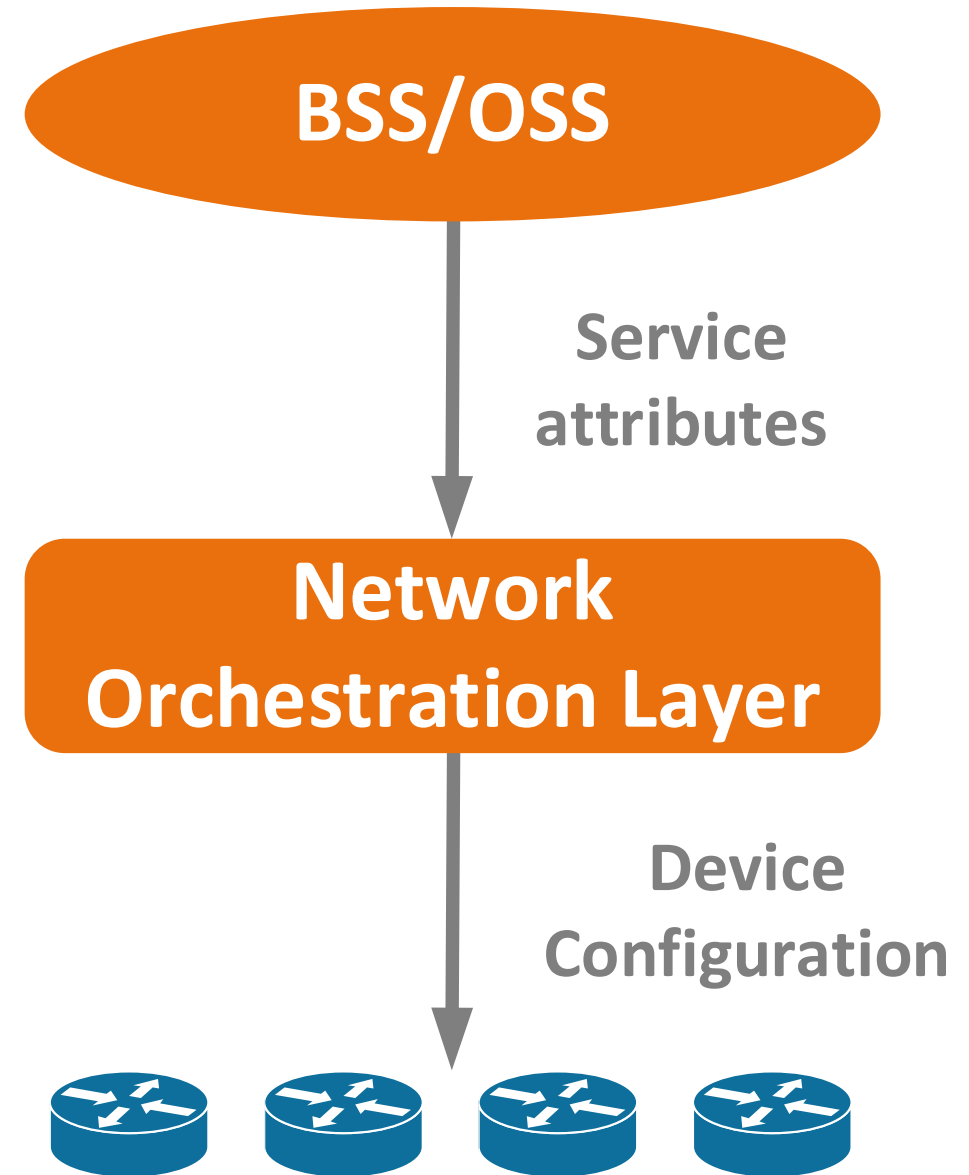
Challenges of Network Management

- Configuration is usually done manually on each device
- Multiple and repetitive configurations
- Configurations vary by vendor
- No such thing as a network API => Resource to scripting when trying to automate device configuration changes
- No well-defined protocols or data models for network configuration

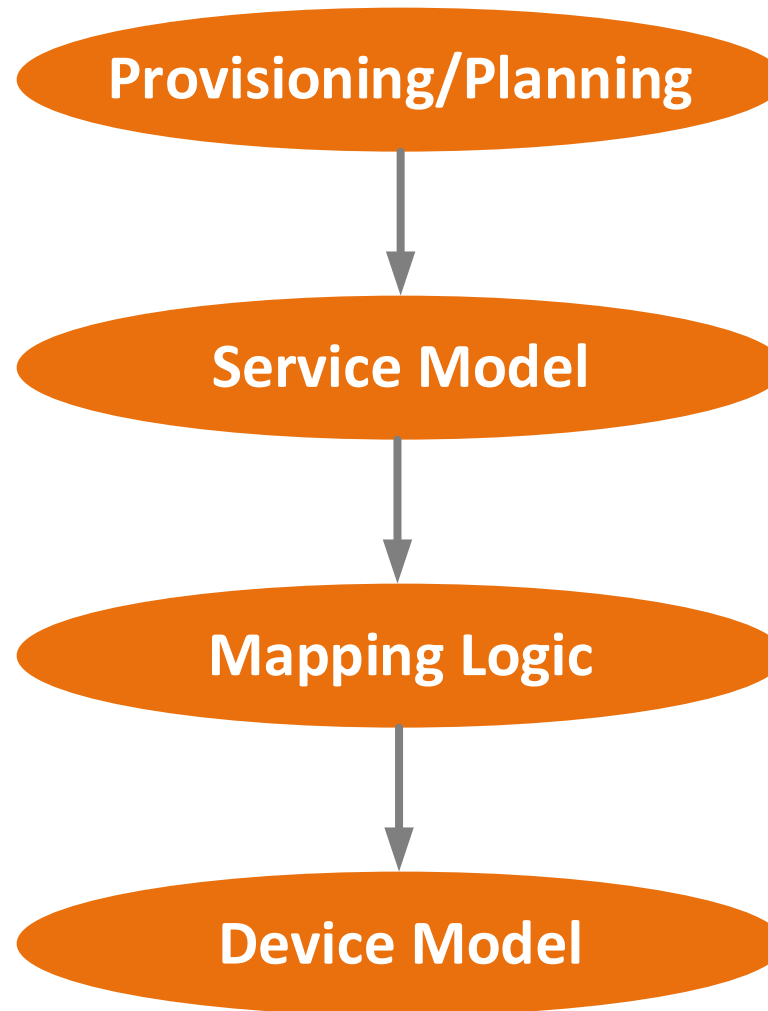


Network Orchestration Layer

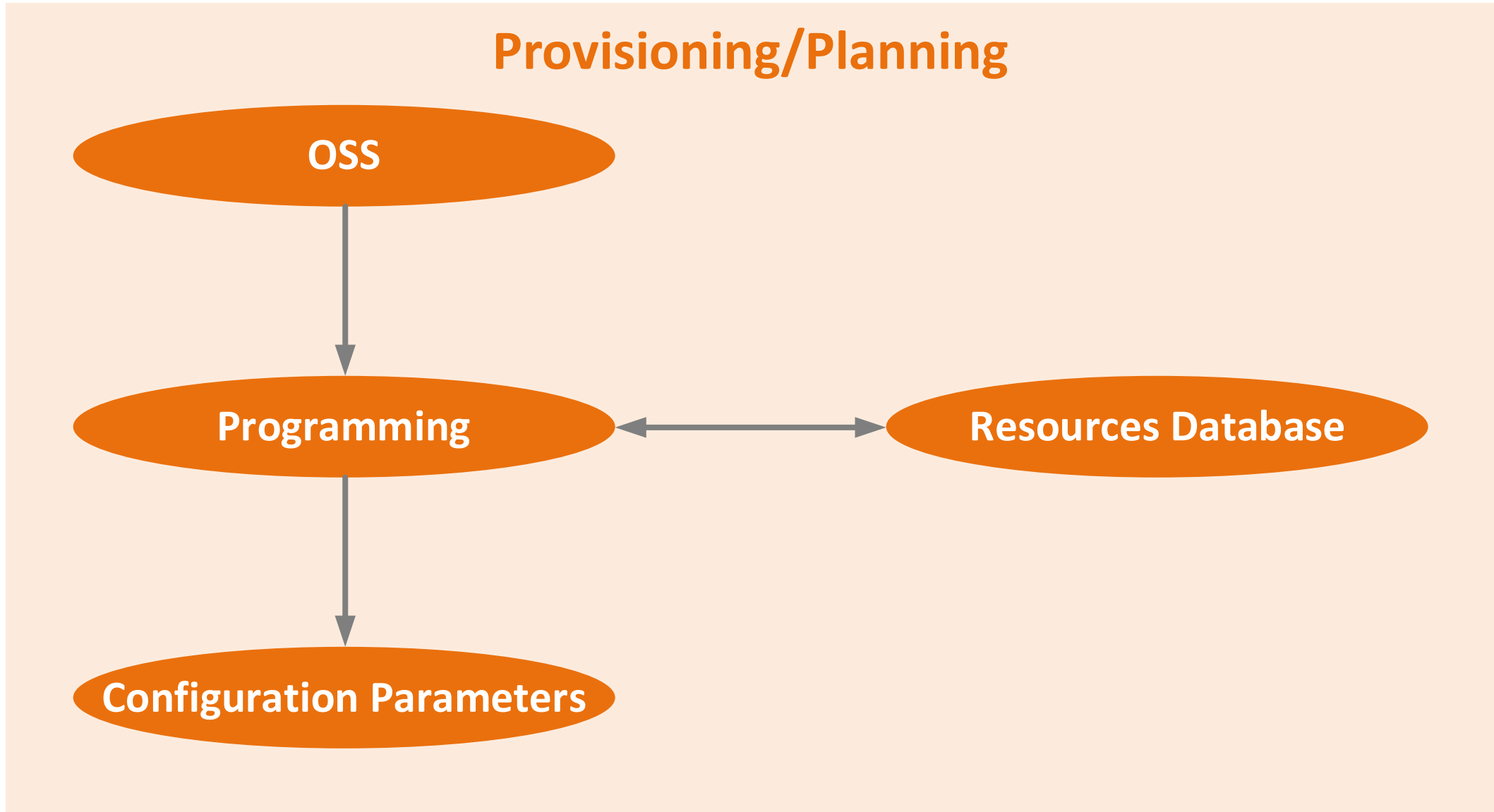
- The interaction of OSS/BSS with the network layer is abstracted by the network orchestration layer
- Orchestration layer handles the requests coming from BSS/OSS, where the business requirements are defined, and makes sure that the correct changes and processes are orchestrated to achieve the desired outcome



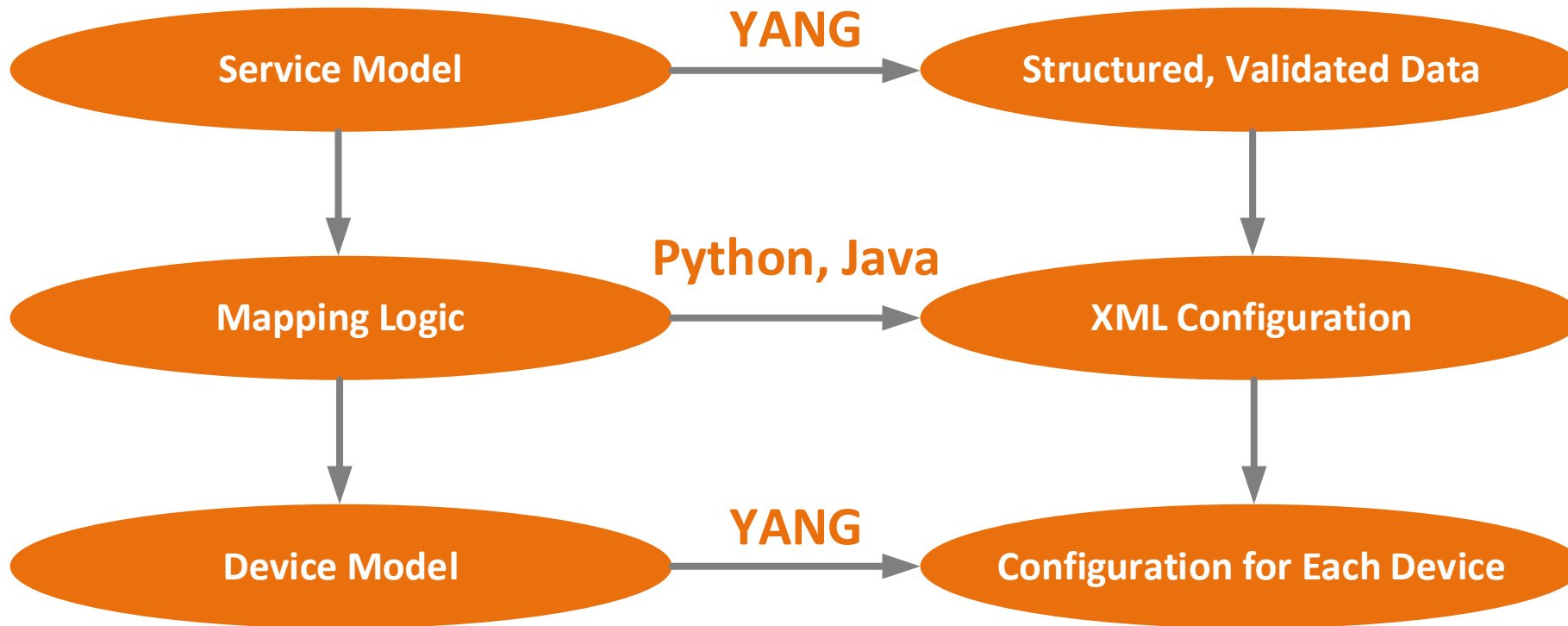
Network Orchestration Components



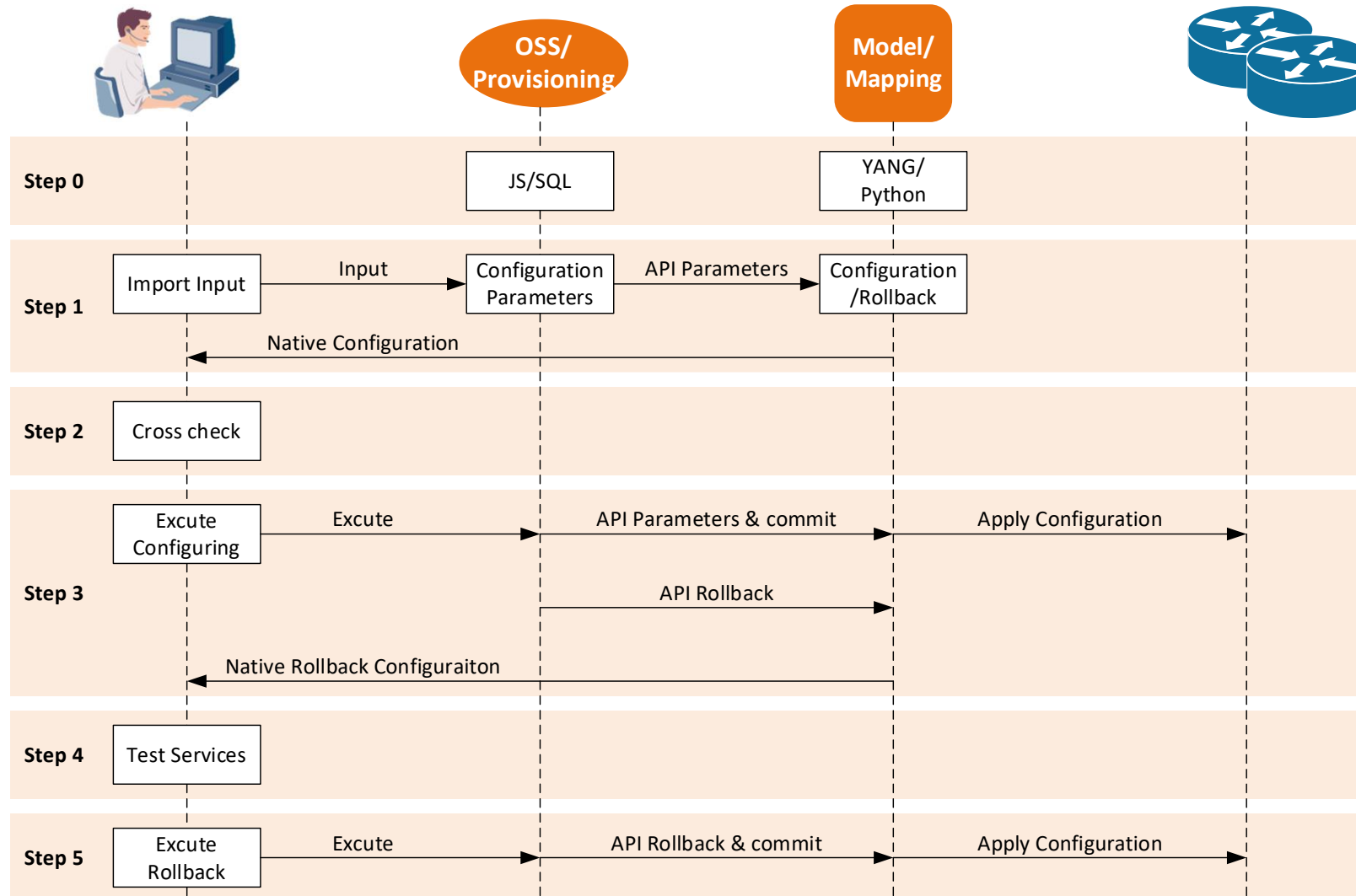
Network Orchestration Components



Network Orchestration Components



Flows of Configuring Process

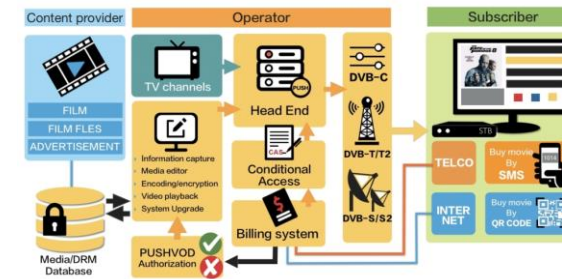
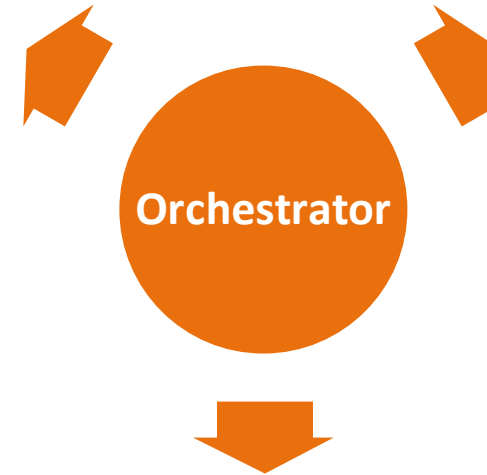
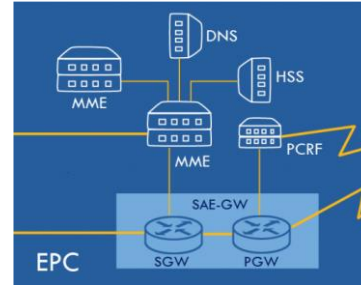


Advantages

- Reduce manually configurations
- Reduce faults by human
- Configuration is done on multiple devices
- Only one configuration models for all devices
- Validate input parameters
- Interact with devices via NETCONF, CLI

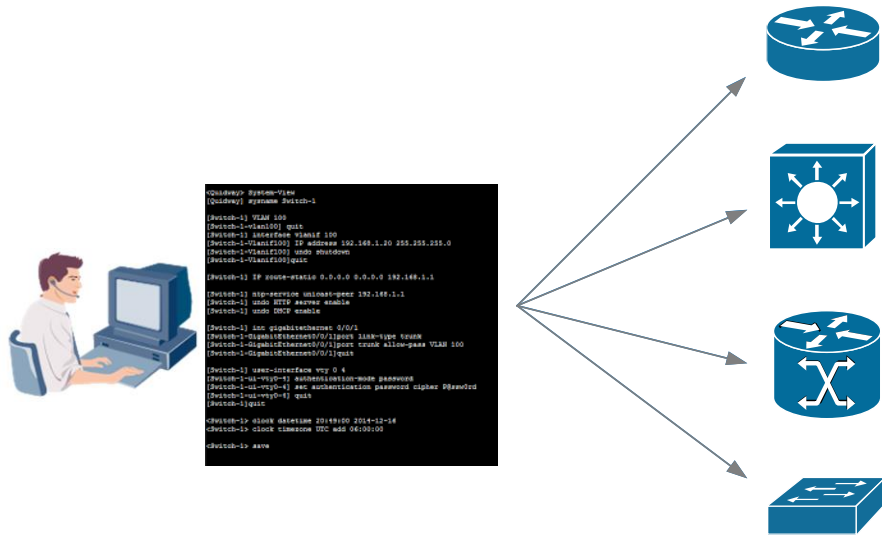
Results

Deployed for integrating systems, services: PS Core, IT, VoD...

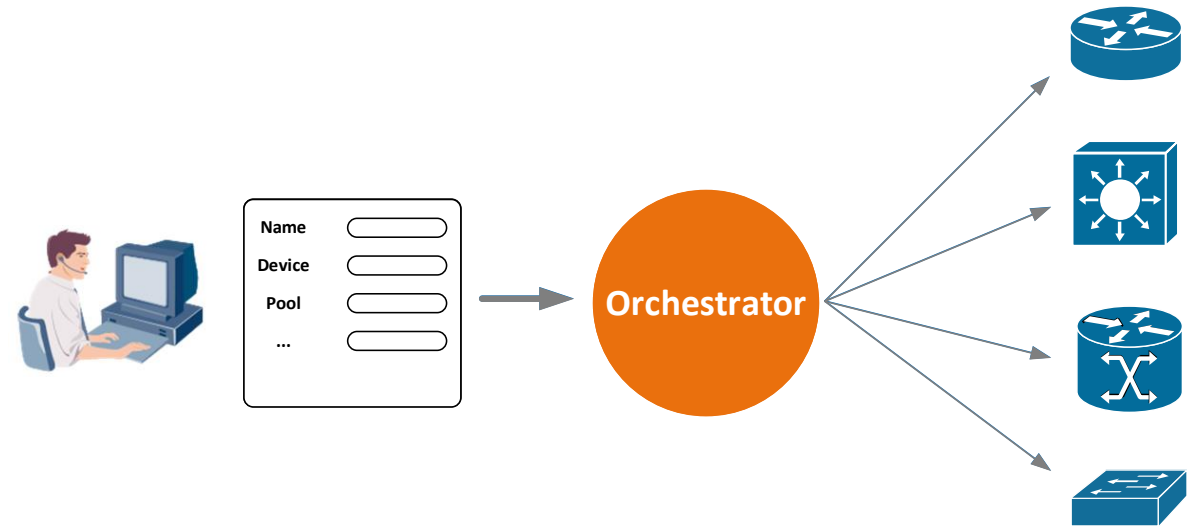


Results

Before



After



viettel

Theo cách của bạn