Amartus
TELCO **FLUENT** SOFTWARE **NATIVE**

Case Study 01
Multi-vendor Integration

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Amartus has helped numerous service providers accelerate delivery of tailored services through development & integration of robust, standards-based, multi-vendor service automation solutions.
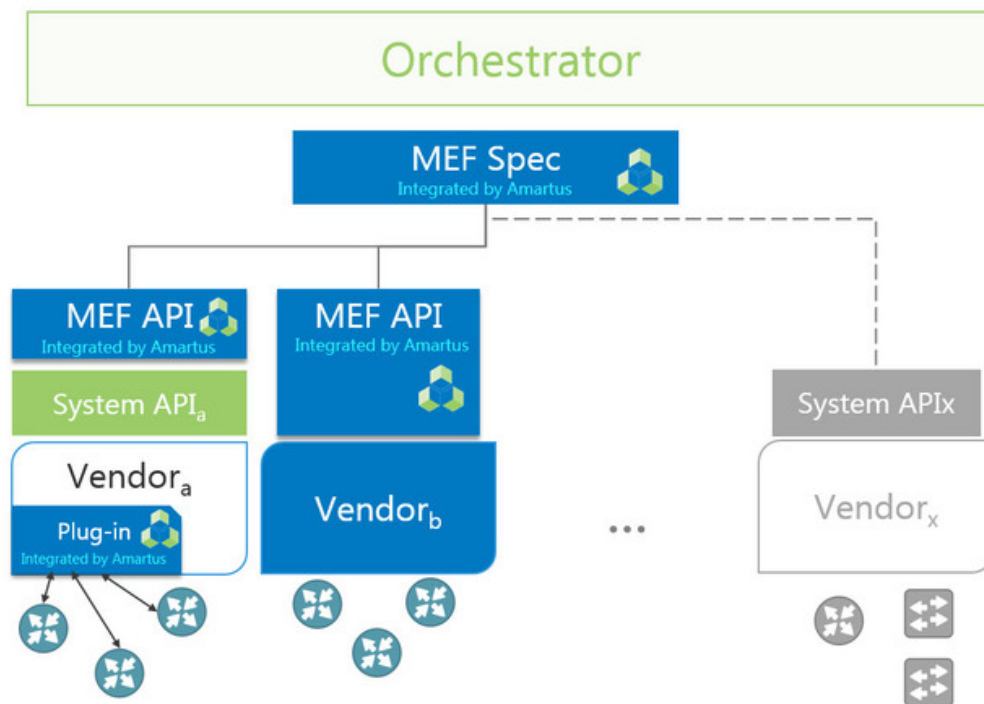
CONTRIBUTION

Amartus engineers have been involved in the MEF specification refinement. They worked with the service provider's representatives on MEF interface improvements, and came up with proposals. They also actively collaborated with the vendors' engineers to adapt the vendors' systems and equipment to the service provider's requirements.

The challenge: A leading Tier 1 Communications Service Provider (CSP) required integration of its orchestrator in a multi-vendor environment. The aim was to enable the end customer to manage a comprehensive catalogue of Metro Ethernet Forum (MEF) services on top of the existing complex and interdependent infrastructure.

The solution: Amartus was responsible for integration of equipment from two independent vendors with the provider's MEF orchestrator. To achieve the business goals and allow the CSP to facilitate and accelerate service management over the multi-vendor infrastructure, two projects were established:

- **Layer responsible for mediation between the orchestrator and vendors' NMSs.** The layer exposed an interface (REST) compliant with the MEF specification delivered by the service provider, and used the southbound message bus of the vendors' systems to achieve the business goals. Since part of the required functionality (e.g. QoS) was not supported by the vendor NMSs, Amartus' engineers developed and integrated a plug-in module that covered the functional gap. The plug-in logic communicated directly with the vendors' devices using the devices' CLIs.
- **NMS system for MEF services management.** The northbound interface (REST) of the delivered system was fully compliant with the MEF specification provided by the customer. In addition, the MTOSI interface was exposed to the orchestrator. The southbound interface of the system was responsible for devices management and configuration (using TL1 and SNMP protocols).