

YANG Model-to-model Mediation

Network Equipment Vendors frequently need to comply with the technological requirements imposed by Communication Service Providers (CSPs). They are expected to provide hardware together with software that smoothly blends in the existing, increasingly complex provider infrastructure.

The challenge: In this project, a global network equipment vendor asked us to design and develop an application that would allow them to become compliant with YANG/RESTCONF specifications. The aim was to provide the ability to expose part of the customer model via RESTCONF interface.

The solution: We decided to build a generator capable of auto-generating the required artefacts from the customer models. One of the generated artefacts was a RESTCONF interface compliant with the protocol specification. Another was a model-to-model mediation module that allows automated bidirectional model transformations. The generator developed by Amartus was integrated with the customer's toolchain. The generated artefacts were able to automatically integrate with the customer's runtime platform.

The result: Thanks to the implemented solution, our customer gained the ability to adjust the exposed model to their needs while leaving the internal model intact. Our engineers enhanced the solution and made it more appealing to CSPs by providing it with the capability of communicating with other vendors through YANG/RESTCONF.

