

Invention Title:	Method to transform UML-based information models to various OSS components
Invention Summary:	When we create MIBs today (e.g., for DOCSIS), it is a very manual process. We first manually create a UML-based information model, then manually create a data model, then manually create MIBs, Yang Modules, TR-69/TR-181 models, etc. This is a slow, cumbersome, and error-prone process. Our invention would automate the creation of these models from the UML information model.
Invention Description:	Our invention is a tool to take UML models created in Visual Paradigm or Magic Draw, standardize the UML (so that it could be read by multiple tools), automatically generate a Yang module, then allow the user to select other output formats and generate SNMP MIBs, TR-181 models, API code and/or other B/OSS formats.
Invention Commercial Value/Customers:	This invention would be valuable to anyone creating MIBs, Yang Modules, etc. Such entities would include equipment vendors and standards organizations.
Invention Differences:	Existing products convert Yang modules into other forms, but to our knowledge, nothing exists to convert from UML to Yang, and then into other forms. This automation invention would be a step forward for the industry.

