

In the past decade XML became a wide-spread information exchange data model.

Many XML users have many XML formats described by XML schemas.

To ease the management of multiple XML schemas modeling similar reality, the conceptual model for XML was defined.

With its definition came various challenges that needed to be further researched.

This thesis focuses on two of those challenges.

The first challenge is to manage the evolution of the multi-level conceptual model as the modeled reality, XML schemas and applications evolve in time.

The second challenge is to allow the majority of users who already use XML schemas in their system without the conceptual model to use their schemas to semi-automatically create one.

In addition a step towards integration of the conceptual modeling of XML and semantic web techniques was taken.