

Validation pipe is a term often used by XMLdation to describe an item containing structural validation (.xsd) as well as business rules validation. Validation pipe enables [validation process](#), for user to find out whether a specific XML-file is valid according to rules present in validation pipe.

Validation pipe consists of

Schema (.xsd)

Schema defines the basic structure for validation pipe (and for the XML-file). Usually the schemas used in XMLdation service are defined by ISO 20022. It is of course possible to use whatever valid schema for a validation pipe.

Business Rule validation

Business rule validation is the core of the validation service.

Validation rules are written by XMLdation experts or by myXML users. The amount of rules depends on the pipe, but in total it is usually somewhere between 50 - 200.

Following is an example of two business rules, defined by ISO 20022 for Credit Transfers:

When element PmtInf/PmtTpInf is present,
then PmtInf/CdtTrfTxInf/PmtTpInf is not allowed.

Group Header ControlSum has to match with the arithmetic sum of
all InstdAmt and EqvtAmt/Amt elements.

These business rules are not possible to be validated by ISO 20022 schema, as they are not (and in this case cannot be) defined in schema. Based on these business rules two validation rules may be created.

Validation rules are created using OCL, object constraining language.

Rulesets

Ruleset is a collection of business rules. We have rulesets so we are able to inform the style and origin of the rules better to the user. For example in Credit Transfer and Direct Debit pipes we often have ISO 20022 Business Rules as one ruleset. This way we are able to separate ISO rules from bank/organisation specific rules.