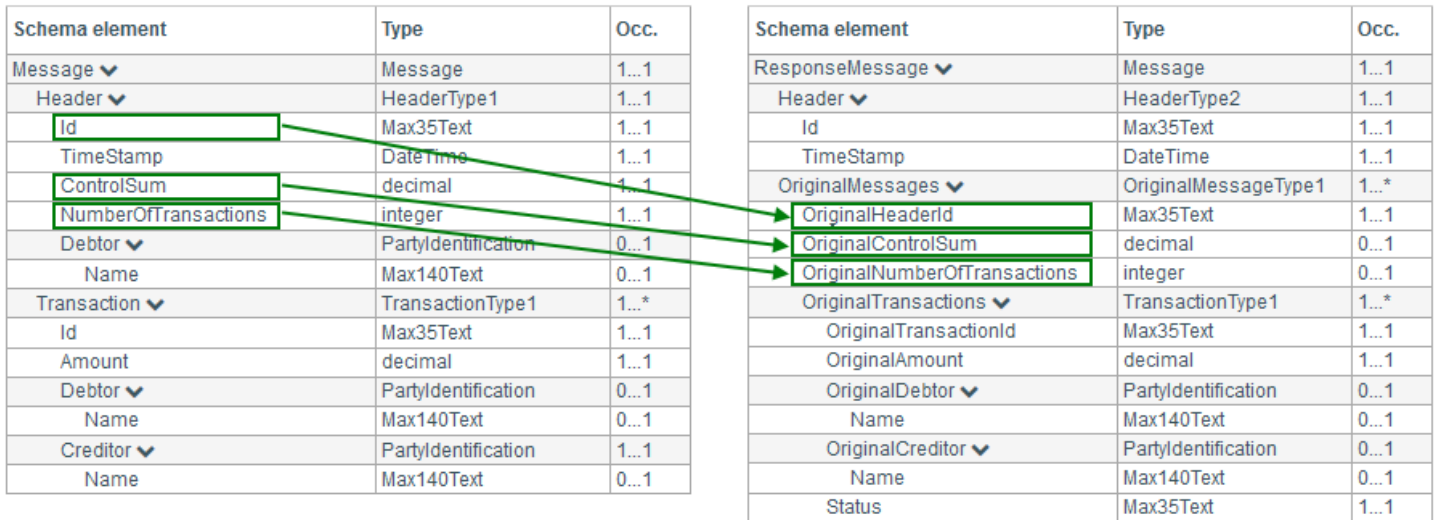
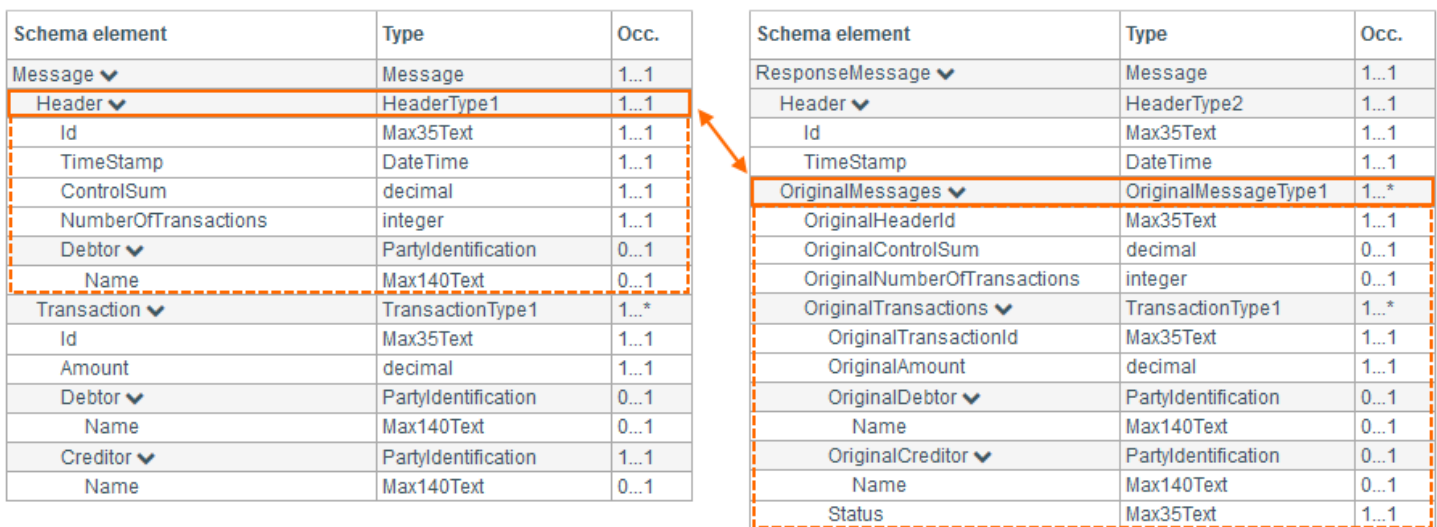


Mapping validation can be used for checking that data has travelled correctly from source to target. Mapping validation takes a source file and a target file as input and compares values and structures in them according to mapping rules.

In the picture below we have a source file structure on the left side and a target file structure on the right. The data from the highlighted fields of the source file should travel to the highlighted fields of the target file.



To be able to create a validation rule we need to create a *relationship* which can be used when writing rules between files. For this particular example we want to create a relationship between **Header** element of the source file and **OriginalMessages** of the target.



The relationship takes the following information:

Name	HeaderToOriginalMessages
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Context 1	HeaderType1
Context 1 name	SourceHeader
Context 2	OriginalMessageType1
Context 2 name	TargetOriginalMessages
Execute	SourceHeader.Id = TargetOriginalMessages.OriginalHeaderId

After the relationship is created a “virtual element” is created to both to the source and to the target. You can move from source to the target and vice versa by using the name of this virtual element which is defined in the relationship.

It kind of looks like in the picture below. You could for example check if the value of the OriginalControlSum element in the target message matches with the value of ControlSum element in the source file.

Context: OriginalMessageType1

OCL rule: self.SourceHeader.ControlSum = self.OriginalControlSum

Schema element	Type	Occ.
Message ▾	Message	1..1
Header ▾	HeaderType1	1..1
Id	Max35Text	1..1
TimeStamp	DateTime	1..1
ControlSum	decimal	1..1
NumberOfTransactions	integer	1..1
Debtor ▾	PartyIdentification	0..1
Name	Max140Text	0..1
Transaction ▾	TransactionType1	1..*
Id	Max35Text	1..1
Amount	decimal	1..1
Debtor ▾	PartyIdentification	0..1
Name	Max140Text	0..1
Creditor ▾	PartyIdentification	1..1
Name	Max140Text	0..1

Schema element	Type	Occ.
ResponseMessage ▾	Message	1..1
Header ▾	HeaderType2	1..1
Id	Max35Text	1..1
TimeStamp	DateTime	1..1
OriginalMessages ▾	OriginalMessageType1	1..*
SourceHeader		
OriginalHeaderId	Max35Text	1..1
OriginalControlSum	decimal	0..1
OriginalNumberOfTransactions	integer	0..1
OriginalTransactions ▾	TransactionType1	1..*
OriginalTransactionId	Max35Text	1..1
OriginalAmount	decimal	1..1
OriginalDebtor ▾	PartyIdentification	0..1
Name	Max140Text	0..1
OriginalCreditor ▾	PartyIdentification	0..1
Name	Max140Text	0..1
Status	Max35Text	1..1