target:ArgumentAsset[1 ✒] - reference to the ArgumentAsset(s) that are the target (ending point) of the relationship.

reasoning:ArgumentReasoning[0..1] – an optional reference to the a description of the reasoning underlying the AssertedRelationship.

Semantics

In SACM, the structure of an argument is declared through the linking together of primitive ArgumentAssets. For example, a sufficient inference can be asserted to exist between two claims ("Claim A implies Claim B") or sufficient evidence can be asserted to exist to support a claim ("Claim A is evidenced by Evidence B"). An inference asserted between two claims (A – the source – and B – the target) denotes that the truth of Claim A is said to infer the truth of Claim B.

11.14 AssertedInference

AssertedInference association records the inference that a user declares to exist between one or more Assertion (premise) and another Assertion (conclusion). It is important to note that such a declaration is itself an assertion on behalf of the user.

Superclass

AssertedRelationship

Semantics

The core structure of an argument is declared through the inferences that are asserted to exist between Assertions (e.g., Claims). For example, an AssertedInference can be said to exist between two claims ("Claim A implies Claim B"). An AssertedInference between two claims (A – the source – and B – the target) denotes that the truth of Claim B is said to infer the truth of Claim A.

B

A

11.15 AssertedEvidence

AssertedEvidence association records the declaration that one or more artifacts of Evidence (cited by ArtifactReference) provide information that helps establish the truth of a Claim. It is important to note that such a declaration is itself an assertion on behalf of the user. The artifact (cited by an ArtifactReferemce) may provide evidence for more than one Claim.

Superclass

AssertedRelationship

Semantics

Where evidence (cited by ArtifactReference) exists that helps to establish the truth of a Claim in the argument, this relationship between the Claim and the evidence can be asserted by an AssertedEvidence association. An AssertedEvidence association between an artifact cited by an ArtifactReference and a Claim (A – the source evidence cited – and B – the target claim) denotes that the evidence cited by A is said to help establish the truth of Claim B.

Constraints

Add Concrete Syntax for AssertedEvidence

The source of AssertedEvidence relationships must be ArtifactReference.

OCL

self.source->forall(s|s.oclIsTypeOf(ArtifactReference))