

A Claim that is intentionally declared as requiring further evidence or argumentation can be denoted by setting +assertionDeclaration to “needsSupport.”

A Claim that is being declared as axiomatically true can be denoted by setting +assertionDeclaration to “axiomatic.”

A Claim that is defeated by counter evidence can be denoted by setting +assertionDeclaration to “defeated.”

A Claim which cites another claim and supported by the cited claim can be denoted by setting +assertionDeclaration to “asCited.”

~~Constraints~~

~~Self-assumed and self-toBeSupported cannot both be true simultaneously.~~

11.12 ArgumentReasoning

ArgumentReasoning can be used to provide additional description or explanation of the asserted relationship. For example, it can be used to provide description of an AssertedInference that connects one or more Claims (premises) to another Claim (conclusion). ArgumentReasoning elements are therefore related to AssertedInferences, AssertedContexts, and AssertedEvidence. It is also possible that ArgumentReasoning elements can refer to other structured Arguments as a means of documenting the detail of the argument that establishes the asserted inferences, contexts, and evidence.

Superclass

ArgumentAsset

Associations

structure:ArgumentPackage[0..1] - optional reference to another the ArgumentPackage that provides the detailed structure of the argument being described by the ArgumentReasoning.

Semantics

The AssertedRelationship that relates one or more Claims (premises) to another Claim (conclusion), or evidence cited by an ArtifactReasoning to a Claim, may not always be obvious. In such cases ArgumentReasoning can be used to provide further description of the reasoning involved.

11.13 AssertedRelationship (abstract)

AssertedRelationship is the abstract association class that enables the ArgumentAssets of any structured argument to be linked together. The linking together of ArgumentAssets allows a user to declare the relationship that they assert to hold between these elements.

Superclass

Assertion

Attributes

isCounter:Boolean[1] = false – a flag indicating that the AssertedRelationship counters its declared purposes (e.g., setting isCounter = true for an AssertedEvidence indicates that the relationship is a counter-evidence).

Associations

source:ArgumentAsset[1..*] - reference to the ArgumentAsset(s) that are the source (starting point) of the relationship.