referencedArtifactElement:Base::ArtifactElement[0..*] – reference to a collection of ArtifactElements.

Semantics

It is necessary to be able to cite artifacts that provide supporting evidence, context, or additional description with in an argument structure. ArtifactReferences allow there to be an objectified citation of this information within the structured argument, thereby allowing the relationship between this artifact and the argument to also be explicitly declared.

11.10 Assertion (abstract)

Assertions are used to record the propositions of Argumentation (including both the Claims about the subject of the argument and the structure of the Argumentation being asserted). Propositions can be true or false, but cannot be true and false simultaneously.

Superclass

ArgumentAsset

Attributes

assertionDeclaration:AssertionDeclaration[1] = asserted – the declaration indicating the state of the Assertion.

Associations

 metaClaim:Claim[0..*] - references Claims concerning (i.e., about) the Assertion (e.g., regarding the confidence in the Assertion)

Semantics

Structured arguments are declared by stating claims, citing evidence and contextual information, and asserting how these elements relate to each other.

11.11 Claim

Claims are used to record the propositions of any structured argument contained in an ArgumentPackage. Propositions are instances of statements that could be true or false, but cannot be true and false simultaneously.

Superclass

Assertion

Semantics

The core of any argument is a series of claims (premises) that are asserted to provide sufficient reasoning to support a (higher- level) claim (a conclusion).

A Claim that is intentionally declared without any supporting evidence or argumentation can be declared as being assumed (i.e., assertionDeclared = assumed). It is an assumption. However, it should be noted that a Claim that is not 'assumed' (i.e., assertionDeclaration = asserted) is not being declared as false. However, there is the expectation of the provision of a supporting argument structure (e.g., it may represent part of an incomplete structure).

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".

or counter argument