

modifications. The specification could be created by using UML (Technique) in an Activity named ‘Specify system design’, stored in a Resource corresponding to a diagram created with some modeling tool, and later used as input for another Activity called ‘Verify system design’. A given person (Participant) playing the role of system designer could be the owner of the design specification, which would also relate to other artifacts: the requirements specification that satisfies, the architecture that implements, its verification report, etc. Associations between Artifacts and Activities /Events/Participants/ Resources/Techniques, and between Artifacts and Activities /Events/Participants/ Resources/Techniques Participants can be recorded by means of ArtifactAssetRelationships.

12.2 ArtifactPackage

Artifact

~~Argument~~Package is the containing element for artifacts involved in a structured assurance case.

Superclass

Base::ArtifactElement

Associations

artifactElement:Base::ArtifactElement[0..*] (composition) – a collection of ArtifactElements forming an artifact package in a structured assurance case.

Semantics

ArtifactPackages contain ArtifactElements that represent the artifact forming part of a structured assurance case. ArtifactPackages can also be nested.

12.3 ArtifactGroup

ArtifactGroup can be used to associate a number of ArtifactElements to a common group (e.g., representing a common type or purpose, or being of interest to a particular stakeholder).

Superclass

Base::ArtifactElement

Associations

artifactElement:ArtifactElement[0..*] – an optional collection of ArtifactElements organized within the ArtifactGroup.

Semantics

ArtifactGroup can be used to associate a number of ArtifactElements to a common group (e.g., representing a common type or purpose, or being of interest to a particular stakeholder). The name and the description of the ArtifactGroup should provide the semantic for understanding the ArtifactGroup. ArtifactGroups serve no structural purpose in the formation of the argument network, nor are they meant as a structural packaging mechanism (this should be done using ArtifactPackage).

12.4 ArtifactPackageBinding

The ArtifactPackageBinding is a sub type of ArtifactPackage used to record ArtifactAssetRelationships between the ArtifactAssets of two or more ArtifactPackages.