

Semantics

ArtifactElement corresponds to the base class for specifying all the identifiable units of data modelled and managed in a structured assurance case effort.

9 ~~8.11~~ 8 **Note**

This class specifies a generic note that may be associated with a ~~ModelElement~~ ^{an} ModelElement. For example a note may include a number of explanatory comments.

Superclass BaseElement
~~SACMCoreElement~~
~~UtilityElement~~

Attributes
 body:ExpressionLangString[0..1]
 AssociationEnds

Semantics

~~SACMCom~~
 Notes are used to specify additional (typically optional) generic, unstructured, untyped information about a ModelElement. An example of this kind of information could be a comment about a ModelElement.

9 ~~8.12~~ 9 **TaggedValue**

This class represents a simple key/value pair that can be attached to any element in SACM. This is a simple extension mechanism to allow users to add attributes to each element beyond those already specified in SACM.

Superclass BaseElement
~~UtilityElement~~

Associations value :String [0..*] {ordered, nonunique}

key:MultiLangString[1] (composition) ~~the key of the TaggedValue.~~

Semantics

~~NamedValue~~
 TaggedValues can be used to specify attributes, and their corresponding values, for ModelElements.

9.10 Group

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

Supertype BaseElement ~~SACMElement~~, SACMModel

Association End

element: SACMElement [0..*] {ordered} – a collection of SACMElements that comprise a group

9.10 IRI

IRI is a international resource identifier is a String and is formatted according to RFC 3987.

Supertype String **9.11 SACMModel**
 An abstract subtype of ModelElement which allows one to define a model and/or a pattern.

Supertype ModelElement

Attributes
 isPattern : Boolean [0..1] = false - if true elements in SACMModel are part of a pattern.
 isModel : Boolean [0..1] = false - if true elements in SACMModel are part of a model.

Association
 +subModel:SACMModel [0..*] - subModel is a recursive containment of elements in the model.
 +elements:SACMElement [0..*] - elements are items in the model.