

# 9 Structured Assurance Case Base Classes

## 9.1 General

This chapter presents the normative specification for the SACM Base Metamodel. It begins with an overview of the metamodel structure followed by a description of each element.

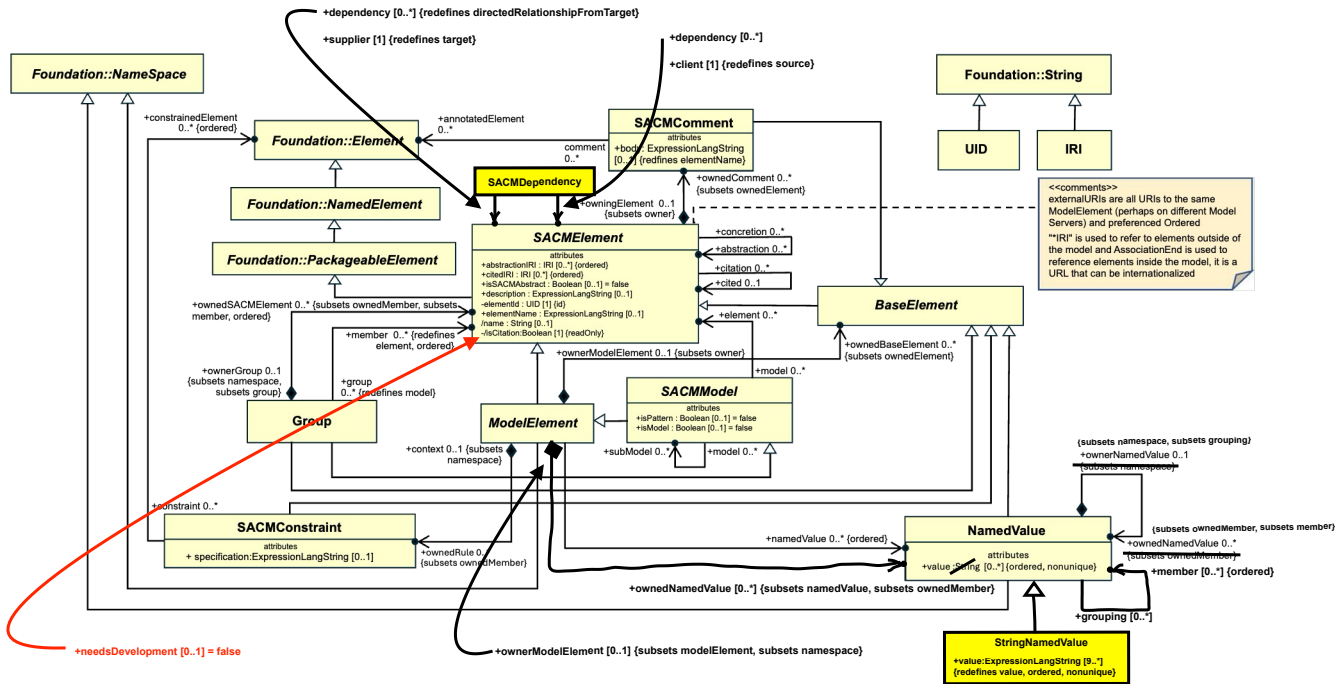


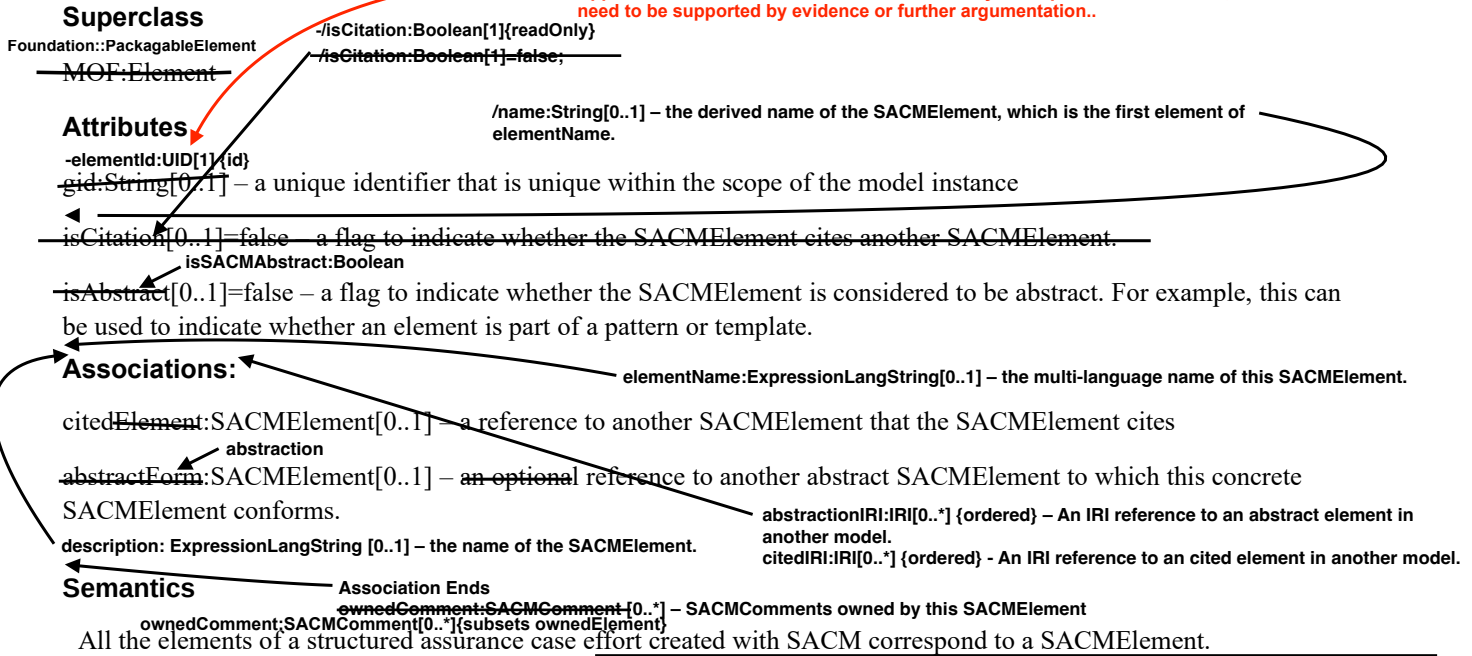
Figure 9.1 - Structured Assurance Case Base Classes Diagram

The Structured Assurance Case Base Classes express the foundational concepts and relationships of the base elements of the SACM metamodel and are utilized, through inheritance, by the bulk of the rest of the Structured Assurance Case Metamodel.

## 9 8.2 SACMElement (abstract)

SACMElement is the base class for SACM.

needsDevelopment [0..1] = false - indicates that this SACMElement still needs development. Application of this on certain elements can carry other particular semantics, such as Claims need to be supported by evidence or further argumentation..



## 9 8.3 LangString

LangString is the format SACM uses for descriptive specification of the language used for the content.

### Superclass

MOF:Element

### Attributes

lang:String[0..1] - a field to indicate the language used in the string.  
content:String[0..1] - the content of the string

### Semantics

LangString serves the same purpose as String, SACM uses LangString for description, which containing the information of the language it uses in the content.

Move to Terminology Class

## 9 8.4 ExpressionLangString

ExpressionLangString is used to denote a structured expression, it contains a description (LangString) and it also (optionally) points to an ExpressionElement in the Terminology Package.