

Illustration Index

Figure 7.1 - Argument Chain Structure.....	12
Figure 7.2 - Overall SACM Class Diagram.....	15
Figure 8.1 - Overall SACM Class Diagram.....	17
Figure 9.1 - Structured Assurance Case Packages Class Diagram.....	23
Figure 10.1 Terminology Class Diagram.....	27
Figure 11.1 Argumentation Package Diagram.....	35
Figure 12.1 Artifact Package Diagram.....	45
Figure C1 - Concrete Syntax for ArgumentPackage.....	55
Figure C2 - Concrete Syntax for ArgumentPackageInterface.....	55
Figure C3 - Concrete Syntax for ArgumentPackageBinding.....	56
Figure C4 - Concrete Syntax for ArtifactReference	56
Figure C5 - Concrete Syntax for +metaClaim reference	56
Figure C6 - Concrete Syntax for asserted Claim.....	57
Figure C7 - Concrete Syntax for assumed Claim	57
Figure C8 - Concrete Syntax for needsSupport Claim.....	57
Figure C9 - Concrete Syntax for axiomatic Claim	58
Figure C10 - Concrete Syntax for defeated Claim	58
Figure C11 - Concrete Syntax for asCited Claim	58
Figure C12 - Concrete Syntax for abstract asserted Claim	59
Figure C13 - Concrete Syntax for ArgumentReasoning	59
Figure C14 - Concrete Syntax for asserted AssertedInference	59
Figure C15 - Concrete Syntax for assumed AssertedInference.....	59
Figure C16 - Concrete Syntax for needsSupport AssertedInference.....	59
Figure C17 - Concrete Syntax for axiomatic AssertedInference.....	60
Figure C18 - Concrete Syntax for defeated AssertedInference	60
Figure C19 - Concrete Syntax for asCited AssertedInference	60
Figure C20 - Concrete Syntax for abstract asserted AssertedInference.....	60
Figure C21 - Concrete Syntax for counter asserted AssertedInference.....	60
Figure C22 - Concrete Syntax for asserted AssertedEvidence.....	61
Figure C23 - Concrete Syntax for assumed AssertedEvidence.....	61
Figure C24 - Concrete Syntax for needsSupport AssertedEvidence.....	61
Figure C25 - Concrete Syntax for axiomatic AssertedEvidence.....	61
Figure C26 - Concrete Syntax for defeated AssertedEvidence	61
Figure C27 - Concrete Syntax for asCited AssertedEvidence.....	62
Figure C28 - Concrete Syntax for abstract asserted AssertedEvidence.....	62
Figure C29 - Concrete Syntax for counter asserted AssertedEvidence.....	62
Figure C30 - Concrete Syntax for asserted AssertedContext.....	62
Figure C31 - Concrete Syntax for assumed AssertedContext	62
Figure C32 - Concrete Syntax for needsSupport AssertedContext.....	62
Figure C33 - Concrete Syntax for axiomatic AssertedContext.....	63
Figure C34 - Concrete Syntax for defeated AssertedContext.....	63
Figure C35 - Concrete Syntax for asCited AssertedContext.....	63
Figure C36 - Concrete Syntax for abstract asserted AssertedContext.....	63
Figure C37 - Concrete Syntax for counter asserted AssertedContext.....	63
Figure C38 - Concrete Syntax for asserted AssertedArtifactSupport.....	63
Figure C39 - Concrete Syntax for assumed AssertedArtifactSupport.....	64
Figure C40 - Concrete Syntax for needsSupport AssertedArtifactSupport.....	64
Figure C41 - Concrete Syntax for axiomatic AssertedArtifactSupport.....	64
Figure C42 - Concrete Syntax for defeated AssertedArtifactSupport.....	64
Figure C43 - Concrete Syntax for asCited AssertedArtifactSupport.....	64
Figure C44 - Concrete Syntax for abstract asserted AssertedArtifactSupport.....	64
Figure C45 - Concrete Syntax for counter asserted AssertedArtifactSupport	65
Figure C46 - Concrete Syntax for asserted AssertedArtifactContext.....	65
Figure C47 - Concrete Syntax for assumed AssertedArtifactContext.....	65

8 Structured Assurance Case Base Classes

8.1 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.

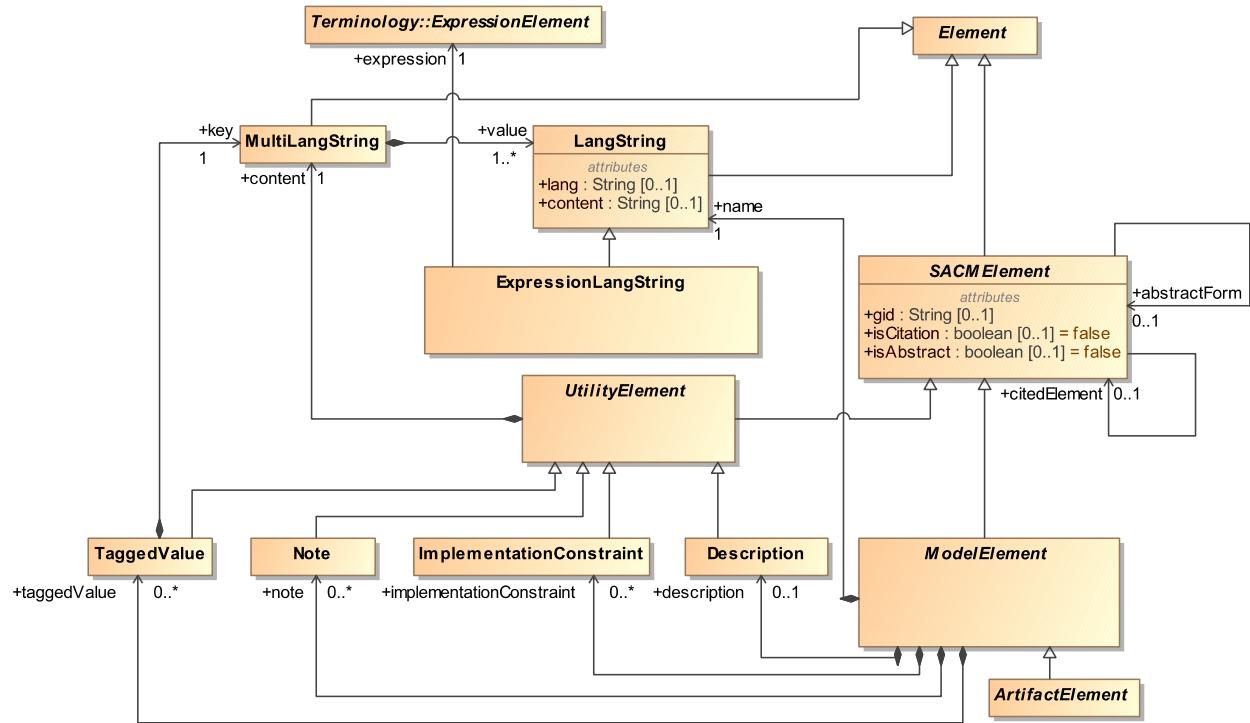


Figure 8.1 - Overall SACM Class Diagram

Structured Assurance Case Base