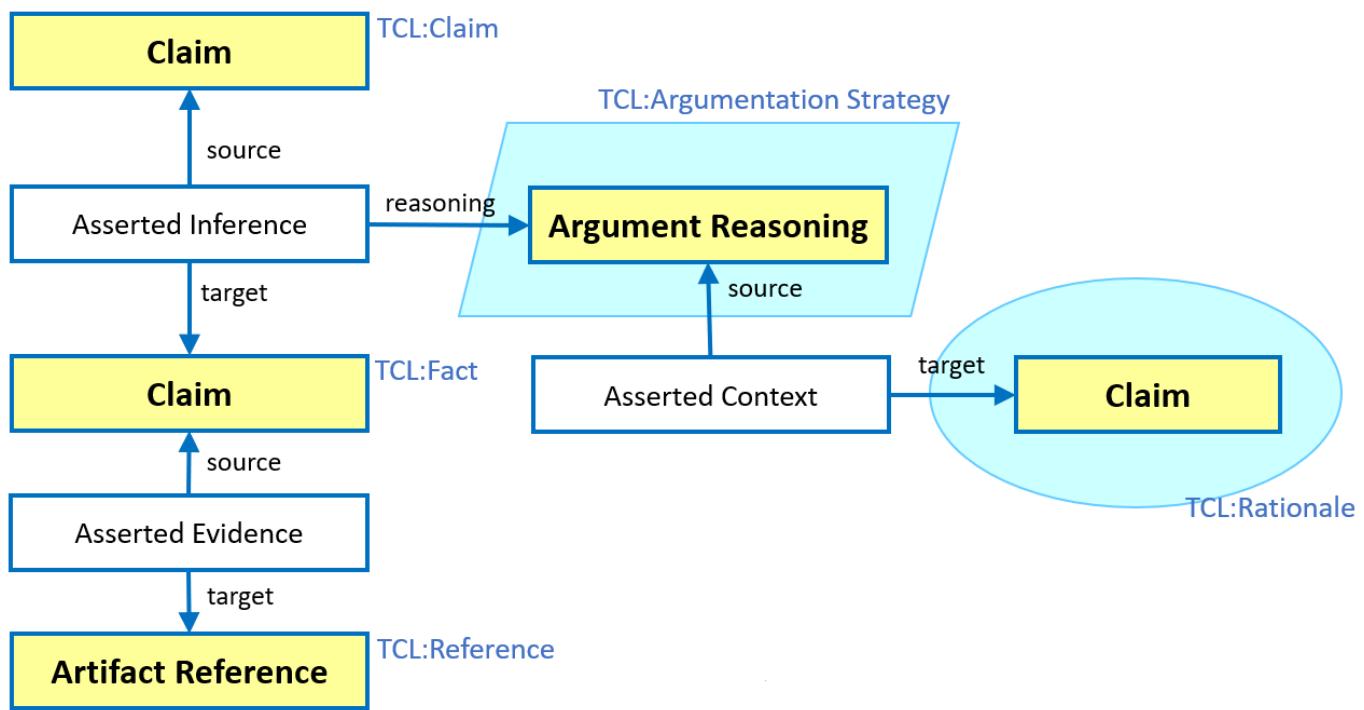


TCL (Trust Case Language) arguments can be fully translated to SACM 2.1 ([Structured Assurance Case Metamodel](#)) using model-to-model transformation.

The table below describes the mapping from TCL (Trust Case Language) elements onto OMG SACM 2.1 elements.

TCL Element	SACM element	Notes
Argument node elements:		
TCL:Claim	SACM:Claim	<i>assertionDeclaration</i> = asserted
TCL:ArgumentationStrategy	SACM:ArgumentReasoning	attached to a single inference from source nodes (premises) to the target claim
TCL:CounterStrategy	SACM:ArgumentReasoning	attached to a single inference from source nodes (premises) to the target claim, where inference <i>isCounter</i> = true
TCL:Rationale	SACM:Claim	<i>assertionDeclaration</i> = asserted
TCL:Fact	SACM:Claim	<i>assertionDeclaration</i> = asserted
TCL:Assumption	SACM:Claim	<i>assertionDeclaration</i> = assumed
TCL:Reference	SACM:ArtifactReference	ArtifactReference referring to SACM:Artifact
TCL:Information	SACM:ArtifactReference	It contains textual information (usually contextual) and optionally some references (associated artefacts)
TCL:Link	SACM:ArgumentationElement (concrete class depends on the link target class)	<i>citedElement</i> pointing to the linked argument node; for claims: <i>assertionDeclaration</i> = asCited
Argument link elements:		
TCL:Supports	SACM:AssertedInference	<i>source</i> attribute denotes the list of premises, <i>target</i> points to the conclusion and <i>reasoning</i> to the strategy
TCL:IsContextFor	SACM:AssertedContext	used to connect argument elements with TCL:Information elements which provide textual context information
TCL:IsEvidenceFor	SACM:AssertedEvidence	<i>source</i> attribute denotes the list of evidence (TCL:Reference), <i>target</i> points to the conclusion (TCL:Fact)
Container elements:		
TCL:Folder	SACM:AssuranceCasePackage	
TCL:Module	SACM:ArgumentPackage	
TCL:ModuleInterface	SACM:ArgumentPackageBinding	
TCL:Template	SACM:ArgumentPackage	<i>isAbstract</i> = true
TCL:Repository	SACM:ArtifactPackage	
Evidence elements:		
TCL:Evidence	SACM:Artifact SACM:Activity	SACM class depends on evidence repository type

The diagram below presents SACM objects corresponding to elements and relations of a TCL argument step of a claim supported by a strategy and one fact supported by evidence.



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or contact us at [office@argevide.com](mailto:office@argevide.com)