An Open Models Report

The *i** Method:

Conceptualization Concept & Implementation Procedure for ADOxx®

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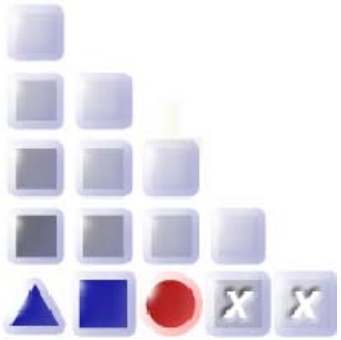
Conceptualization Concept & Implementation Procedure for ADOxx®



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Contents

Preamble

The document at hand contains two parts a concept preparing the implementation - the conceptualization part - and a documentation of the ensuing implementation for the *i** Method on the Meta-Modelling Platform ADOxx®. The definition of the method itself has not been developed by the Department of Knowledge and Business Engineering of the University of Vienna and there are no claims on intellectual property rights on the *i** Method.

The concept in the document shows, how the selected method can be implemented on such a meta-modelling platform, what are the requirements, preconditions, pitfalls, which extensions on the method are conceivable etc.

The Meta-Modelling Platform ADOxx® is a product of the BOC Group.

Vienna, May 2009 and October 2010

Margit Schwab

Part I:

*i** Method: Conceptualization Concept for ADOxx®

1 Introduction

The Conceptualization Concept dose not specify any guidelines how to use the *i** Method nor gives any statements about the method development. The first paragraphs of the introduction give references where this information may be found. Despite an overview of the main classes and their intended use is given to the reader.

1.1 The *i** Method Description

An entire description of the method as well as different papers describing the method can be found on the webpage of the University of Toronto, Faculty for Information, Professor Eric Yu (http://www.cs.utoronto.ca/~eric/#Research%20Projects; Date of last access: 11th of November 2008).

1.2 Construction Principles

Goal modelling aims to determine what various actors want and how (and whether) those wants are achieved. The name *i**stands for distributed intentionality (Yu1995), referring to the premise that actors are intentional and that they do not necessarily share common goals (Samavi 2008).

1.3 General Guidelines

Actors in *i** are **strategic** in that they **seek relationships** that will **best suit** their **strategic interests**. A **role** conveys the notion of an **abstract actor**. A role can be played by one or more agents. An **agent** is a **concrete, physical actor**. A **position** is a **set of roles** typically **assigned to** one agent.

The different types of intentional actors depend on each other and are therefore connected with a **dependency link AND** the goal, task etc. to be achieved within their relation. In order to further specify the relationship between intentional actors several types of the **association link** are offered.

Goals, tasks, resources and **softgoals** are used to distinguish the nature of the dependency links between actors. These intentional elements are also used to analyze the reasoning structure within each actor, using additional types of links (Samavi 2008).

A **Belief** in the "i* framework" is mapped to **strategic assumptions**.

Connections between the different elements expressing the aim of the respective actor(s) are the **contribution/correlation link**, the **decomposition link** or the **means-end link**.

2 Classes and Relation Classes of all Modes

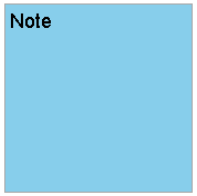
Classes:

Note, Aggregation

Relation classes:

has Note

2.1 Class: Note



Attribute Name	Type	Chapter	Indication
Text	LONGSTRING	Description	multi-line
External graphic	PROGRAMCALL	Description	-
Calculate size of graphic automatically	ENUMERATION	Description	-
Font size	ENUMERATION	Graphical Representation	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72;
Font style	ENUMERATION	Graphical Representation	**Standard**, Italic, Bold, Bold Italic, Underline, Bold Underline;
Colour	STRING	Graphical Representation	Colour of the note – default „sky-blue”
Line style	ENUMERATION	Graphical Representation	Normal, Dots, Lines, Dots/Lines, Bold, None
Help	yes	-	for the entire note

2.2 Class: Aggregation

Attribute Name	Type	Chapter	Indication
Name	STRING	Description	-
Name Display	ENUMERATION	Description	display - checkbox
Name as Header	ENUMERATION	Description	inside / outside
Description	LONGSTRING	Description	-
Comment	LONGSTRING	Description	-
Graphical Shape	ENUMERATION	Graphical Representation	**Rectangle**, Circle, Right Arrow. Left Arrow, Upward Arrow, Downward Arrow
Font size	ENUMERATION	Graphical Representation	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Font style	ENUMERATION	Graphical Representation	**Standard**, Italic, Bold, Bold Italic, Underline, Bold Underline;
Colour	STRING	Graphical Representation	Colour of the note – default: “thistle”
Line style	ENUMERATION	Graphical Representation	**Normal**, Dots, Lines, Dots/Lines, Bold, None
Help	yes	-	for the entire aggregation

2.3 Relation class: has Note

Attribute Name	Type	Chapter	Indication
no notebook	-	-	-

The connector connects all objects with objects of the class “Note”.

3 Modeltype: Intentional Actors and Elements Model

3.1 View - Mode: Strategic Dependency Model

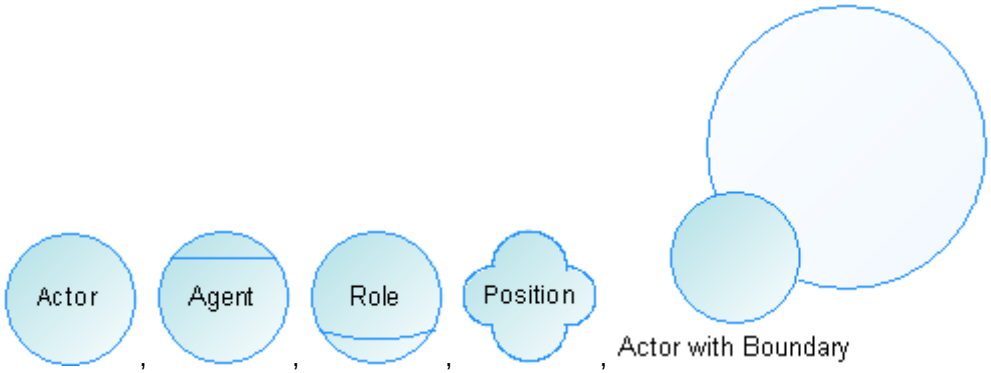
Classes:

Actor, Agent, Role, Position, Goal, Task, Resource, Softgoal, Belief

Relation classes:

Dependency Link, Association Link

3.1.1 Class: Actor



Attribute Name	Type	Chapter	Indication
Type	ENUMERATION	**as separate classes!**	Actor@Agent@Role@Position

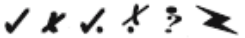
Attribute Name	Type	Chapter	Indication
Name	STRING	General	-
Order	INTEGER	General	This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model. This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.
Boundary	ENUMERATION	Description	without@with - default: without
Help	-	for the Attribute only	Select if the actor should be displayed with or without a boundary. A boundary is a frame around all the objects in the model which directly belong to the respective actor. Actor boundaries indicate intentional boundaries of a particular actor. All of the elements within a boundary for an actor are explicitly desired by that actor. In order to achieve these elements, often an actor must depend on the intentions of other actors, represented by dependency links across actor boundaries. In turn, an actor is depended upon to satisfy certain elements, represented by a dependency link in the opposite direction.
Representation of Boundary	ENUMERATION	General	top right@down right@top left@down left
Boundary Lines	ENUMERATION	General	**solid**@dashed Select the type of representation for the boundary.
Description	STRING	Description	lines:5 Describe the characteristics of the intentional actor. The description will be used for documentation purposes.

Attribute Name	Type	Chapter	Indication
Comment	STRING	Description	lines:5 Enter any comments about the intentional actor. The comments will be used for documentation purposes.
Representation of Name	ENUMERATION	Description	inside@outside – default: outside Select whether the object name should be displayed inside or outside of the object.
Font size	ENUMERATION	Description	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Help	-	Help for the entire Class	“Actors” are active entities that carry out actions to achieve goals by exercising its know-how. The term actor refers generically to any unit to which intentional dependencies can be ascribed. An actor interacts with other actors not only through actions or information flows but also relate to each other at an intentional level. Actors depend on each other to achieve goals, perform tasks, and furnish resources. While each actor has strategic goals to pursue, they are achieved through a network of intentional dependencies. Agents, roles and positions are sub-units of a complex social actor, each of which is an actor in a more specialized sense.

Attribute Name	Type	Chapter	Indication
Help	-	Help for the entire Class	Agents An “Agent” is an actor with concrete, physical manifestations, such as a human individual. The term agent is used instead of person for generality, so that it can be used to refer to human as well as artificial (hardware / software agents). An agent has dependencies that apply regardless of what roles he/she/it happens to be playing. These characteristics are typically not easily transferable to other individuals, e.g. its skills and experiences, and its physical limitations.
Help	-	Help for the entire Class	Roles A “Role” is an abstract characterization of the behaviour of a social actor within some specialized context or domain of endeavour. Its characteristics are easily transferable to other social actors. The dependencies associated with a role apply regardless of the agent who plays the role. Therefore a role conveys the notion of an abstract actor. A role can be played by one or more agents.
Help	-	Help for the entire Class	Position A “Position” is an intermediate abstraction that can be used between a role and an agent. It is a set of roles typically played by one agent (e.g., assigned jointly to that one agent). We say that an agent occupies a position. A position is said to cover a role. A position is abstract and an amalgamation of roles. A position can be ascribed to a human or non-human, even though the later case is rare.

Attribute Name	Type	Chapter	Indication
Conceivable Extensions for all 4 Classes	-	-	-
Referenced Actor	INTERREF	Further Details	Reference to other Actor objects – single object reference
Display Name and Reference	ENUMERATION	Further Details	yes@no – default: no Select whether the object name should be displayed in addition to the name of the referenced Actor object.
Key Actor	ENUMERATION	Further Details	The main actor who plays a key role in the entire business model, e.g. which out the participation of the key actor the entire project / plan can not be fulfilled.
Main Skills and Competence	STRING	Further Details	Further describe the know-how, experiences and skills of the intentional actor and why the participation is important.
Responsibility	STRING	Further Details	Define the key responsibilities of the intentional actor.
Constraints	STRING	Further Details	Further describe if there are any constraints concerning the participation of the intentional actor e.g. relevant time constraints. Time related: like 50 % up to 31122008 100 % from 02012009 on. Display: Icon in red?
Costs	FLOATING NUMBER	Further Details	Related to the party.
Available from:	Date	Further Details	Enter the date from when the intentional actor is earliest available to work on the topic.
Available till:	Date	Further Details	Enter the date when the intentional actor will not be available any more to work on the topic.

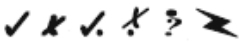
3.1.2 Class: Goal

Attribute Name	Type	Chapter	Indication
Name	STRING	General	-
Order	INTEGER	General	This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model. This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.
State of Fulfilment	ENUMERATION	General	satisfied@denied@weakly satisfied@weakly denied@unknown@conflict@na default: **na** (not assigned) **graph rep:** 
Description	LONGSTRING	Description	lines:5 Describe the characteristics of the needs and requirements of the respective intentional actor. The description will be used for documentation purposes.
Comment	LONGSTRING	Description	lines:5

Attribute Name	Type	Chapter	Indication
Representation of Name	ENUMERATION	Description	inside@**outside** Select whether the object name should be displayed inside or outside of the object.
Font Size	ENUMERATION	Description	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Help	yes	for the entire Class	A “Goal” is a condition or state of affairs to be achieved. An actor can choose freely among different ways to achieve a goal. Represents and intentional desire of an actor, the specifics of HOW the goal is to be satisfied is not described by the goal. This can be described through task decomposition.

Conceivable Extensions for the Class			
Priority	ENUMERATION	Further Details	yes@no– default: no If attribute is checked, an exclamation mark appears with the object.
Priority Order	INTEGER	Further Details	(empty)@any integer **graph rep:** entered integer
Referenced Goals	INTERREF	Further Details	Reference to other Goal objects – multiple object reference
Available from:	Date	Further Details	Enter the date from when the intentional actor is earliest available to work on the topic.
Available till:	Date	Further Details	Enter the date when the intentional actor will not be available any more to work on the topic.

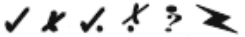
3.1.3 Class: Task

Attribute Name	Type	Chapter	Indication
Name	STRING	General	-
Order	INTEGER	General	This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model. This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.
State of Fulfilment	ENUMERATION	General	satisfied@denied@weakly satisfied@weakly denied@unkonown@conflict@na default: **na** (not assigned) **graph rep:** 
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Name	ENUMERATION	Description	inside@**outside** default: outside Select whether the object name should be displayed inside or outside of the object.

Attribute Name	Type	Chapter	Indication
Font Size	ENUMERATION	Description	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Help	yes	for the entire Class	A “Task” is a course of action to be carried out. It specifies a particular way of doing something, typically to achieve some goal. The actor wants to accomplish some specific task, performed in a particular way. A description of the specifics of the task may be described by decomposing the task into further sub-elements

Conceivable Extensions for the Class			
Priority	ENUMERATION	Further Details	yes@no– default: no If attribute is checked, an exclamation mark appears with the object.
Priority Order	INTEGER	Further Details	(empty)@any integer **graph rep:** entered integer
Referenced Goals	INTERREF	Further Details	Reference to other Task objects – multiple object reference
Available from:	Date	Further Details	Enter the date from when the intentional actor is earliest available to work on the topic.
Available till:	Date	Further Details	Enter the date when the intentional actor will not be available any more to work on the topic.

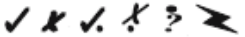
3.1.4 Class: Resource

Attribute Name	Type	Chapter	Indication
Name	STRING	General	-
Order	INTEGER	General	This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model. This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.
State of Fulfilment	ENUMERATION	General	satisfied@denied@weakly satisfied@weakly denied@unknown@conflict@na default: **na** (not assigned) **graph rep:** 
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Name	ENUMERATION	Description	inside@**outside** default: outside Select whether the object name should be displayed inside or outside of the object.

Attribute Name	Type	Chapter	Indication
Font Size	ENUMERATION	Description	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Help	yes	for the entire Class	A “Resource” is a physical or informational entity needed to achieve some goal or to perform some task. This type assumes there are no open issues or questions concerning how the entity will be produced or provided.

Conceivable Extensions for the Class			
Priority	ENUMERATION	Further Details	yes@no– default: no If attribute is checked, an exclamation mark appears with the object.
Priority Order	INTEGER	Further Details	(empty)@any integer **graph rep:** entered integer
Referenced Goals	INTERREF	Further Details	Reference to other Resource objects – multiple object reference
Available from:	Date	Further Details	Enter the date from when the intentional actor is earliest available to work on the topic.
Available till:	Date	Further Details	Enter the date when the intentional actor will not be available any more to work on the topic.
Resource Type	ENUMERATION	Further Details	e.g. IT system, artefact, other NOT YET IMPLEMENTED!

3.1.5 Class: Softgoal

Attribute Name	Type	Chapter	Indication
Name	STRING	General	
Order	INTEGER	General	This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model. This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.
State of Fulfilment	ENUMERATION	General	satisfied@denied@weakly satisfied@weakly denied@unknown@conflict@na default: **na** (not assigned) **graph rep:** 
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Name	ENUMERATION	Description	inside@**outside** default: outside Select whether the object name should be displayed inside or outside of the object.

Attribute Name	Type	Chapter	Indication
Font size	ENUMERATION	Description	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Help	yes	for the entire Class	A “Softgoal” is a goal without a clear-cut criterion for achievement, thus requiring further refinement and judgment. Softgoals are typically used to represent quality goals. Softgoals are similar to (hard) goals except that the criteria for the goal’s satisfaction are not clear-cut, it is judged to be sufficiently satisfied from the point of view of the actor. The means to satisfy such goals are described via contribution links from other elements. The notion of softgoal satisfaction is described by the term satisfied meaning sufficiently satisfied. The converse is still described as denied.

Conceivable Extensions for the Class			
Priority	ENUMERATION	Further Details	yes@no– default: no If attribute is checked, an exclamation mark appears with the object.
Priority Order	INTEGER	Further Details	(empty)@any integer **graph rep:** entered integer
Referenced Goals	INTERREF	Further Details	Reference to other Softgoal objects – multiple object reference
Available from:	Date	Further Details	Enter the date from when the intentional actor is earliest available to work on the topic.
Available till:	Date	Further Details	Enter the date when the intentional actor will not be available any more to work on the topic.

3.1.6 Class: Belief

Attribute Name	Type	Chapter	Indication
Name	STRING	General	-
Order	INTEGER	General	This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model. This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.
State of Fulfilment	ENUMERATION	General	satisfied@denied@weakly satisfied@weakly denied@unknown@conflict@na default: **na** (not assigned) **graph rep:** ✓ ✗ ✓ ✗ ? ➘
Description	LONGSTRING	Description	lines:5
Comment	LONGSTRING	Description	lines:5
Representation of Name	ENUMERATION	Description	inside@**outside** default: outside Select whether the object name should be displayed inside or outside of the object.

Attribute Name	Type	Chapter	Indication
Font size	ENUMERATION	Graphical Representation	8, **10**, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 32, 36, 42, 48, 72
Help	yes	for the entire Class	A “Belief” expresses assumptions, claims or beliefs of a strategic actor. A belief is a condition about the world that the actor holds to be true. The actual degree of truth - as indicated by evaluation labels (see attribute “State of Satisfaction”) - is influenced by contributions from other beliefs. A belief is distinct from a goal in that the actor has no explicit desire to make the specified condition become true.

Conceivable Extensions for the Class			
Priority	ENUMERATION	Further Details	yes@no– default: no If attribute is checked, an exclamation mark appears with the object.
Priority Order	INTEGER	Further Details	(empty)@any integer **graph rep:** entered integer
Referenced Goals	INTERREF	Further Details	Reference to other Belief objects – multiple object reference
Available from:	Date	Further Details	Enter the date from when the intentional actor is earliest available to work on the topic.
Available till:	Date	Further Details	Enter the date when the intentional actor will not be available any more to work on the topic.

3.1.7 Relation Class: Dependency Link

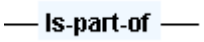
Attribute Name	Type	Chapter	Indication
Indication	STRING	General	lines:3
Dependency Strength	ENUMERATION	General	Committed@Open@Critical default: Committed Dependency
Help	-	for the Attribute only	Vulnerability is implied with Dependency Link(s). The dependency link represents that the depender, by depending on the actor who is the dependee, is able to achieve goals that it was not able to achieve before, or not as well, or not as quick. However this results in the depender becoming vulnerable to the intentions of the dependee. This vulnerability is implied because the dependee may fail to accomplish the specified element. The “i* Method” distinguishes three degrees of strength for the dependency according to the level of vulnerability. These types of dependencies apply independently on each side of a dependency. They are described in the following: • Open dependency (uncommitted): Not obtaining the dependum would affect the depender to some extent but not seriously. This dependency strength is represented by including an "O" on the appropriate side of the link.

Attribute Name	Type	Chapter	Indication
			• Committed dependency: Not obtaining the dependum would cause some action for achieving a goal to fail in the depender. • Critical dependency: Not obtaining the dependum would cause all actions to fail that the depender has planned to achieve a goal. This dependency strength is represented by including an "X" on the appropriate side of the link.
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Indication	ENUMERATION	Description	**above/below**@left/right; default: above/below
Representation of Dependency Strength	ENUMERATION	Description	**start point**@end point; default: start point
Modelling Direction	ENUMERATION	Description	**from left to right**@from right to left; default: from left to right
Help	yes	entire Relation Class	In a “goal dependency”, the depender depends on the dependee to bring about a certain state of affairs in the world. The dependum is expressed as an assertion statement. The dependee is free to and is expected to make whatever decisions are necessary to achieve the goal (namely, the dependum). The depender does not care how the dependee goes about achieving the goal.

Attribute Name	Type	Chapter	Indication
			In a “task dependency”, the depender depends on the dependee to carry out an activity. The dependum names a task which specifies how the task is to be performed, but not why. The depender has already made decisions about how the task is to be performed. Note that a task description in i* is not meant to be a complete specification of the steps required to execute the task. It is a constraint imposed by the depender on the dependee. The dependee still has freedom of action within these constraints. In a “resource dependency”, the depender depends on the dependee for the availability of an entity (physical or informational). By establishing this dependency, the depender gains the ability to use this entity as a resource. A resource is the finished product of some deliberation-action process. In a resource dependency, it is assumed that there are no open issues to be addressed or decisions to be made about the provision or achievement of the Resource entity. In a “softgoal dependency”, a depender depends on the dependee to perform some task that meets a softgoal. A softgoal is similar to a goal except that the criteria of success are not sharply defined a priori. The meaning of the softgoal is elaborated in terms of the methods that are chosen in the course of pursuing the goal. The depender decides what constitutes satisfactory attainment of the goal, but does so with the benefit of the dependee’s know how.

Attribute Name	Type	Chapter	Indication
			Based on all the concepts presented “Strategic Dependencies”, the modeller has the choice of using a Task, Resource, Goal, or Softgoal Dependency Link between actors in a model depending on the context of the design. Each case has different purpose and interpretation. For example, using a Task Dependency Link between two actors means that one of these actors actually depends on the other actor to satisfy and perform the task in a particular way or with some freedom given a set of constraints. Therefore, the task is delegated to another actor with minimum or no freedom of choice. On the other hand, using a Goal or Softgoal Dependency Link means that the Depender actually gives more freedom in choosing which methods to employ to satisfy the dependency or accomplish the Goal or Softgoal.
Conceivable Extensions for the class	-	-	-
Dependency Validity	ENUMERATION	Further Details	**valid**@invalid; default: valid During the analysis phase it turns out that the relation is not desirable any more. The attribute allows to cross out the dependency and therefore to visualize it as “not valid any more”.

3.1.8 Relation Class: Association Link



Attribute Name	Type	Chapter	Indication
Indication	STRING	General	-
Type of Association Link	ENUMERATION	General	Is-part-of (Part)Association@ ISA Association@Plays Association@Covers Association@ Occupies Relationship@ INS Relationship
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Indication	ENUMERATION	Description	**above/below**@left/right; default: above/below
Representation of Link Type	ENUMERATION	Description	**left/right**@top/down; default: left/right

Attribute Name	Type	Chapter	Indication
Help	yes	for the entire Relation Class	The relationships between actors are described by graphical association links between actors. **Is-part-of (Part)Association** Roles, positions, and agents can each have subparts. Aggregate actors are not compositional with respect to intentionality. Each actor, regardless of whether it has parts, or is part of a larger whole, is taken to be intentional. There can be intentional dependencies between the whole and its parts, e.g., a dependency by the hole on its parts to maintain unity. **ISA Association** The ISA association represents a generalization, with an actor being a specialized case of another actor. Both ISA and Is-part-of can be applied between any two instances of the same type of actor. **Plays Association** The plays association is used between an agent and a role, with an agent playing a role. The identity of the agent who plays a role should have no effect on the responsibilities of that role, and similarly, aspects of an agent should be unaffected by the roles it plays. **Covers Association** The covers association is used to describe the relationship between a position and the roles that it covers. **Occupies Association** The OCCUPIES association is used to show that an agent occupies a role, meaning that it plays all of the roles that are covered by the position.

Attribute Name	Type	Chapter	Indication
			INS Association The ins association, representing instantiation, is used to represent a specific instance of a more general entity. An agent is an instantiation of another agent.

3.2 View Mode: Strategic Rationale Model

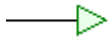
Classes:

All Previous Classes

Relation Classes:

Previous Relation Class PLUS Means-end Link, Decomposition Link, Contribution / Correlation Link

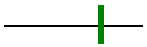
3.2.1 Relation Class: Means-end Link



Attribute Name	Type	Chapter	Indication
Indication	STRING	Description	-
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Indication	ENUMERATION	Description	**above/below**@left/right; default: above/below

Attribute Name	Type	Chapter	Indication
Help	yes	for the entire Relation Class	The “Means-end” shows a particular way (typically a task) to achieve a goal. IT provides an understanding “why” an actor would engage in some tasks, pursue a goal, need a resource or want a soft goal. It indicates a relationship between an end, and a means for attaining it. The “means” is expressed in the form of a task, since the notion of task embodies how to do something, with the “end” is expressed as a goal. In the graphical notation, the arrowhead points from the means to the end.

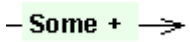
3.2.2 Relation Class: Decomposition Link



Attribute Name	Type	Chapter	Indication
Indication	STRING	Description	-
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Indication	ENUMERATION	Description	**above/below**@left/right; default: above/below

Attribute Name	Type	Chapter	Indication
Help	yes	for the entire Relation Class	The “Decomposition Link” shows how an intentional element (typically a task) is decomposed into sub-elements, which can include goals, tasks, resources, and soft goals. It provides a hierarchical description of intentional elements that make up a routine. A task element is linked to its component nodes by decomposition links. A task can be decomposed into four types of elements: a subgoal, a subtask, a resource, and/or a softgoal - corresponding to the four types of elements. The task can be decomposed into one to many of these elements. These elements can also be part of dependency links in Strategic Dependency model(s) when the reasoning goes beyond an actor's boundary. • Task-Goal Decomposition: Subgoal. In this kind of decomposition it is not specified how the goal is to be achieved, allowing alternatives to be considered. • Task-Task Decomposition: Subtask. When a task is specified as a subcomponent of a (higher) task, this restricts the higher task to that particular course of action. • Task-Resource Decomposition: Resource For: The entity represented by the resource is not considered problematic by the actor. The main concern is whether it is available (and from whom, if it is an external dependency). • Task-Softgoal Decomposition: Softgoal For: When a softgoal is a component in a task decomposition, it serves as a quality goal for that task, and thus guides (or restricts) the selection among alternatives in further decomposition of that and other tasks.

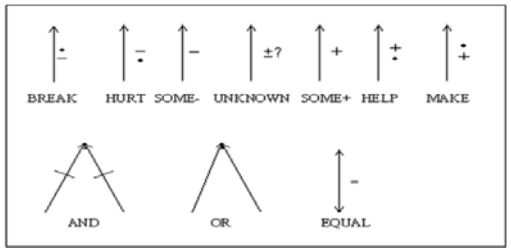
3.2.3 Relation Class: Contribution / Correlation Link

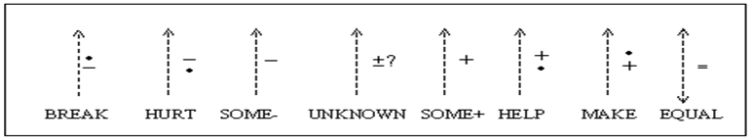


Attribute Name	Type	Chapter	Indication
Indication	STRING	General	-
Type of Contribution/ Correlation Link	ENUMERATION	General	Make@ Some+@Some-@Help @Break@Hurt@Unknown@Equal@And@Or@**na**
Link Lines	ENUMERATION	General	**solid**@dashed; default: solid
Operators	ENUMERATION	?	AND@OR@EQUAL
Description	STRING	Description	lines:5
Comment	STRING	Description	lines:5
Representation of Indication	ENUMERATION	Description	**above/below**@left/right; default: above/below
Representation of Link Type	ENUMERATION	Description	**left/right**@top/down; default: left/right
Help	yes	-	A “Contribution Link” shows a contribution toward satisfying a soft goal, typically from a task or another soft goal. Any of these Contribution Links can be used to link any of the elements to a Softgoal to model the way any of these Elements contributes to the satisfaction or fulfilment of the Softgoal.

Attribute Name	Type	Chapter	Indication
			Make A positive contribution strong enough to satisfies a softgoal. **Some+** Either a make or a help contribution, a positive contribution whose strength is unknown. **Help** A partial positive contribution, not sufficient by itself to satisfies the softgoal. **Unknown** A contribution to a softgoal whose polarity is unknown. **Break** A negative contribution sufficient enough to deny a softgoal. **Some-** Either a break or a hurt contribution, a negative contribution whose strength is unknown. **Hurt** A partial negative contribution, not sufficient by itself to deny the softgoal. **And** The parent is satisfied if all of the offspring are satisfied. **Or** The parent is satisfied if any of the offspring are satisfied.

Implementation Template:





-> with softgoals only!

4 Analysis Queries

Analysis Queries are tools which should assist the analysis phase once the models have been set-up. The following analysis instruments are based on the functionality supported by the used platform and are an “ad-on” or extension to the initial *i** Method.

- All Goals, Tasks, Resources, Softgoals or Beliefs that are connected with the relation class “Dependency Link” to a specific intentional actor. This query can be performed for the single entity or in any combination or for all entities.
- All Goals, Tasks, Resources, Softgoals or Beliefs that are connected with the relation class “Dependency Link” a specific “actor” AND has the “Dependency Strength” “Open” (or “Critical”) This query can be performed for the single entity or in any combination or for all entities.
- …

5 Animation

The entire i* Method helps to provides an early understanding of the organizational relationships in a business domain. Though, the graphical models may become quite complex depending on the number of considered actors and the initial problem to be analysed.

Coming from this approach and in order to retrace the creation and further extension of the Strategic Dependencies in the Strategic Rational Model, the functionality related to animation as a late implementation step was considered. The animation should guide the reader of a Strategic Dependency or Strategic Rational Model through the model according to the analysis extensions the modeller has undertaken.

6 Further Considerations

Constraints for the Graphical Representation
First detected shortcomings are:

- A “curve shape” for the associations is not possible in ADOxx
- The boundary for intentional actor objects will need to be reimplemented in a different way in order to offer optimal modelling support.
- …

Further Generic Mechanisms and Algorithms offered by the Underlying Platform
The chosen platform for the implementation of the *i** Method offers a number of functionality which is structured in form of modules, named “components”. For the *i** implementation the functionality in the components:

- Modelling Component
- Analysis Component
- Import/Export Component including Documentation

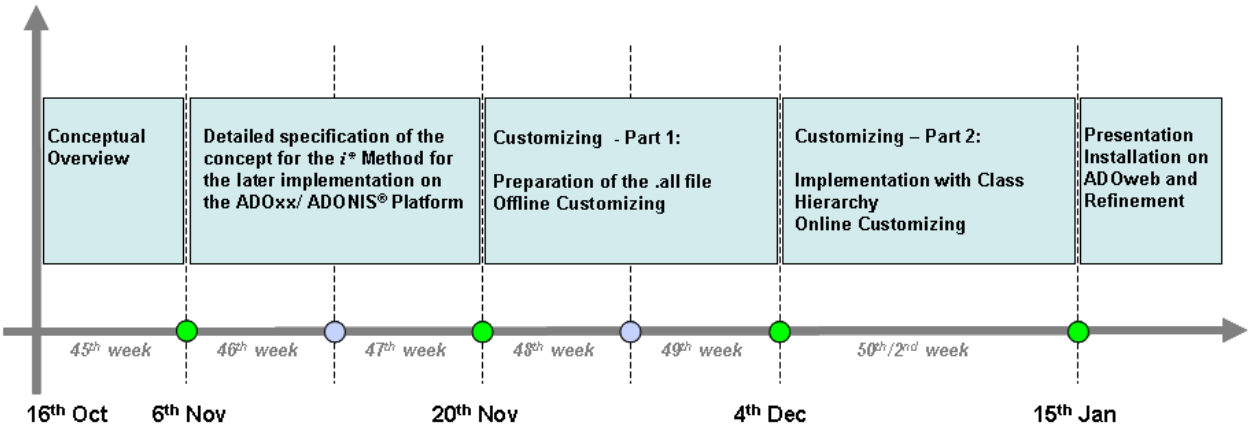
has been used. The components

- Acquisition Component
- Simulation Component and
- Evaluation Component

have not been considered for the implementation.

7 *i** Method Implementation in ADOxx® – Time Line

Conception and Implementation Time Line



Part II:

*i** Method: Implementation Procedure for ADOxx®

1 Theoretical Basis

With the aim of a ready to use modelling tool the analysis as described in the previous section was determined to identify the language elements as specified by the method developer. The analysis results and the derived conceptualization concept give a sound basis from the method point of view. Despite, this is mostly not sufficient to bring the method "from paper to the platform". Further concepts are required. Figure 1 shows the meta-modelling framework which can function as such an additional concept.

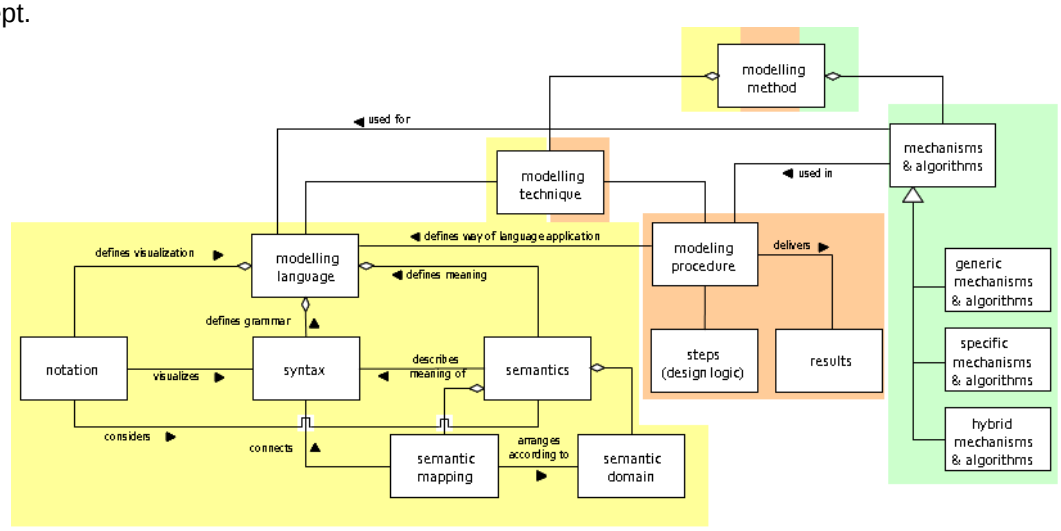


Figure 1: Meta-Modelling Framework according to Kühn / Karagiannis [3]

The meta-modelling framework of Kühn / Karagiannis gives a possibility to structure a modelling method. The framework basically consists of three main parts the modelling language, the modelling procedure and mechanisms & algorithms. These three parts together form the modelling method. Modelling languages or methods which have been developed without such a basis often focus on the modelling language as shown in the framework only. In addition attention is not too much paid upon to the notation and semantics part and modelling language specific algorithms are described independently from the rest. The framework here brings these different conceivable parts together in a structured way and furthermore stresses that there are dependencies between the parts.
In the concrete case underlying this paper, the *i** Method, a sound description of the classes and the relation classes was available, as well as a rough specification of the notation. For the classes the main attributes, like a "name field", were determined. Furthermore goal reasoning states for *i** models were described, though not in form of a continuous algorithm.
When applying the concept of Kühn/Karagiannis the existing elements of the *i** Method are easily structured. Basically these are: the group of Intentional Actors, the group of Intentional Elements and the connectors Dependency, Association, Means-End-, Task Decomposition and Contribution / Correlation Link.
The interdependencies of the elements of a modelling language play a critical role when using the modelling language, i.e. create models and map particular information. For the implementation of a modelling language on a platform in order to receive a ready to use modelling tool, these interdependencies need to be known ideally during the conceptualization phase. Dependencies are not always explicitly described. Their actual "proper use" as intended by the method developer is often implicitly expressed in reference models or in detailed steps of modelling language specific algorithms. Therefore a comprehensive "dependency analysis" of the entire modelling method is meaningful at this stage. The result of such a dependency analysis might look like the graph shown in Figure 2.
Once the analysis is done it has to be considered how the identified dependencies are best implemented on the platform. The conceptualization of these dependencies for the platform is a critical step as it determines the later use of the modelling method on the platform including possible constraints in the content representation. Furthermore the "metamodel of the platform" and inheritance rules require a particular composition of hierarchies which may have as a consequence an adaption of

the initial metamodel of the modelling method. For further details please refer to Chapter 2.2 Implementation of the 'Structure of the Metamodel'.

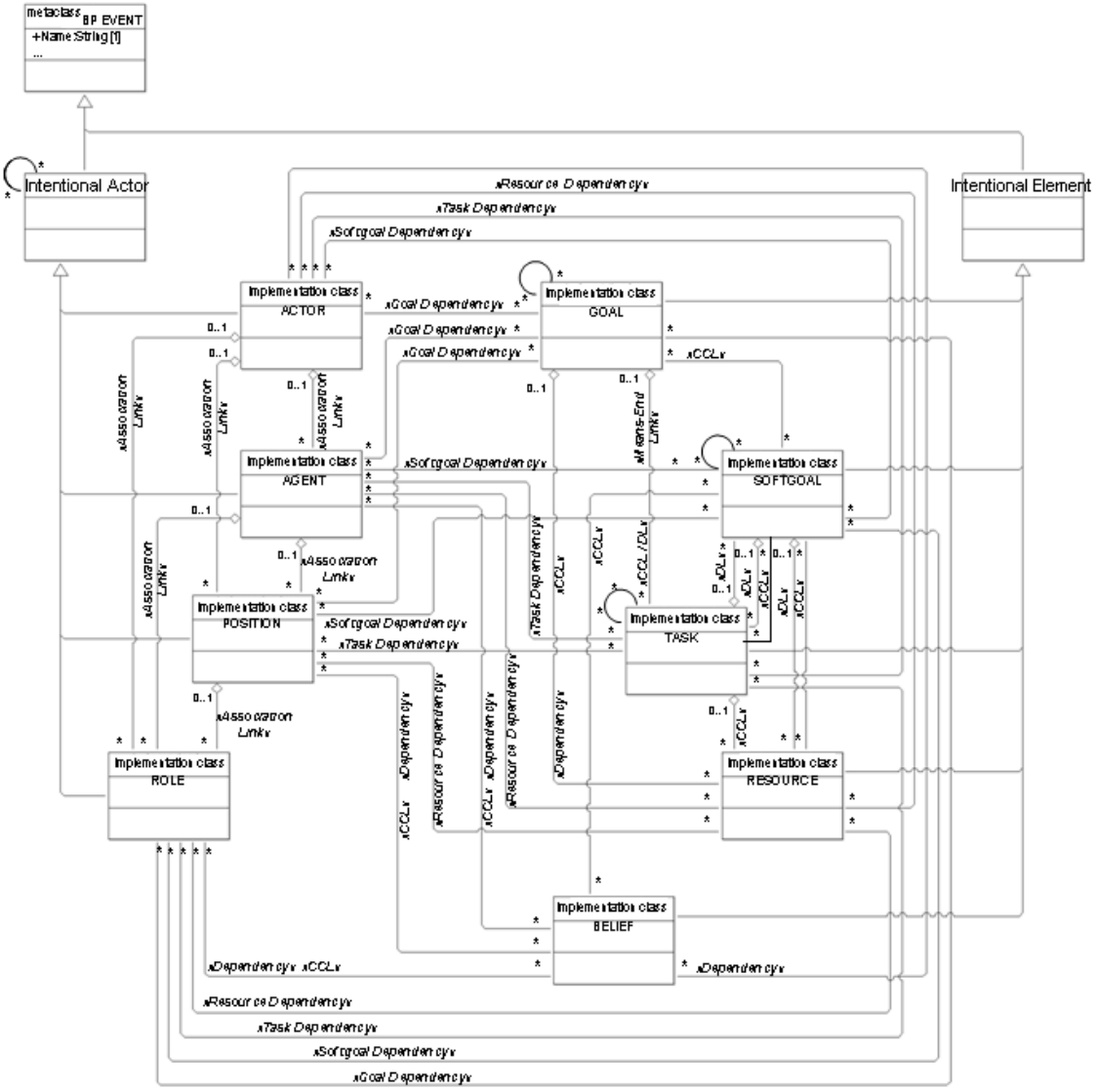


Figure 2: Result of the "Dependency Analysis" of the *i** Method[1]

The different relations form separate classes as well.

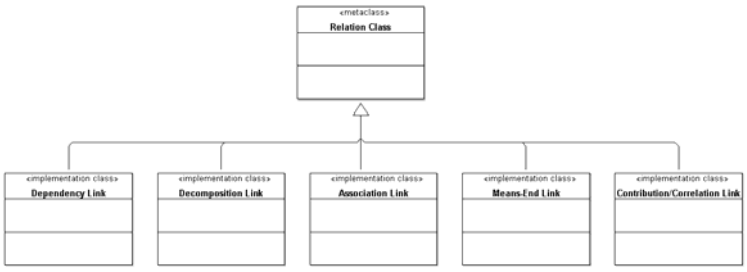


Figure 3: Result of the "Dependency Analysis" of the *i** Method for the Relation Classes

[1] The abbreviation "CCL" stands for Contribution/Correlation Link and "DL" stands for Dependency Link.

2 Steps of the Implementation Procedure

The conceptualization and implementation of the *i** Method was an Open Model Initiative Project. Therefore the Open Model Initiative, OMI, environment has been used. The following paragraphs and terms used within refer to the Open Model Initiative and to the ADOxx® platform.

2.1 The Implementation Environment: The ADOxx® Platform

… a brief essay about the preconditions and "things to know" before to get started!

The 'mental' starting point for the brief essay is: 'the method design is finished'; the concepts of the method are at least partly written down and interdependencies within the method are identified. Hence, it is the perfect time for a first (prototype) implementation on a platform, i.e. ADOxx.

A project on the OMI platform has been created, the passwords are available, even the logon to the development environment, the 'Admin Toolkit', was successful, ... but where to create the metamodel?

Latest at this stage the 'implementing developer' must know that ADOxx offers several different modules, called components. The components are represented by the icons right below the menu-bar. After the logon the user will end-up in the "user management" component; the second is the "library management", then the "model management", "attribute profile management" and "component management" component, though the real important ones are the first three!
For creating the metamodel of the method the "library management" component is relevant. An 'empty' library has been prepared by the OMI Administrator. The library is a 'container' to which all formalisms and constructs of an instance of a modelling language are assigned to. Historically grown, each library consists of three parts. For a new implementation the second part will usually be used! Once selected this part in the tab "Settings" on the right hand side the "Class Hierarchy" button will be activated!
The "Edit Class Hierarchy" dialog which appears now is not quite "talking". By using the button "View" the "Metamodel" and the "Class Hierarchy" can be shown. The dialog now offers predefined abstract classes and attributes offered by the platform! The "BP_Construct" is the most generic starting point for the new method! With this abstract class 'the minimum set of functionality' for classes required and supported by the platform is determined, e.g. GraphRep and AttrRep definition. Selecting the "BP_Construct" and with the menu "New class" the first modelling class of the new method can be created! Mind, it is not likely that all your classes will have a graphical representation, though all required classes of the metamodel of the method have to be created in the metamodel of the platform!

The predefined abstract classes and (some) attributes are needed, if the "Simulation Component" of the "ADOxx BPM Toolkit" should be used. Within the "Simulation Component" there are four different simulation algorithms offered. How these work and what they are about is a different story and will be told at some other time ...

by Margit Schwab

2.2 Implementation of the 'Structure of the Metamodel'

Having the said about preconditions in mind and if these are available at this stage, the first applicable concept within ADOxx® is an "application library", in brief "abl". The library is a container to which all formalisms and constructs of an instance of a modelling language are assigned to. Yet, the meta-model of the platform! also possesses a particular structure so that the assigned elements are not loosely arranged abreast on an equal level. The ADOxx® metamodel distinguishes between *classes* and *relation classes.* The modelling classes and relation classes are implemented one-by-one in separate steps.
The classes for the *i** Method are derived by the abstract[2] class "*BP Construct"*. To create a new class the following steps need to be performed:

- Select the "*BP Construct"*,
- Right mouse click "*New Class*",
- Enter the name of the class to be created, e.g. *"Actor"*,
- Repeat these steps for all classes to be created.

Figure 4 shows the dialog where the classes and relation classes are created. The figure gives an overview about the already created classes and relation classes of the *i** Method. The *i** Method offers the concepts *actor, role, agent* and *position* are subsumed under the term "intentional actor". Furthermore there are the elements *goal, softgoal, task, resource* and *belief*. These elements form the group "intentional elements". Connections comprise the constructs of a *dependency link*, an *association link*, a *means-end link*, a *decomposition link* and a *contribution/correlation link.*

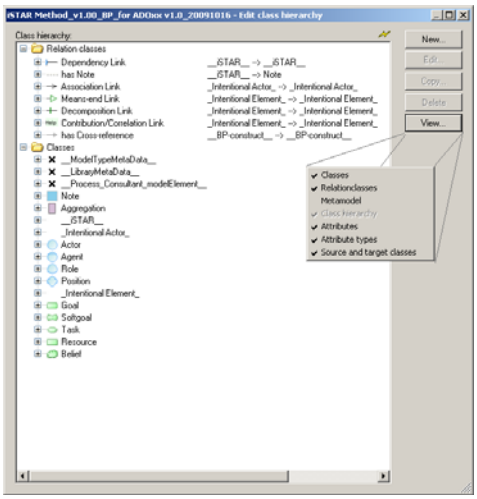


Figure 4: List of Created *i** Method Classes and Relation Classes

The same steps as listed in bullets are carried out when creating a relation class. Though, there is one additional task to be performed. Whenever creating a relation class it must be specified **from** which class **to** which class the connector may be drawn when using the method. Thus the creation of the connectors gives a first input to the set of rules incorporated in the modelling method. Figure 5 shows the dialog how to create the *Correlation / Contribution Link* of the *i** Method.
As the source and target class have to be indicated, it is necessary at this stage to already have a sound knowledge about the interdependencies the modelling language incorporates. Moreover these initial implementation steps determine the structure of the modelling language in ADOxx® - and the later usability of the method. Furthermore this is also the step where the theoretical concept of the modelling language, the metamodel, might differ from the actual implementation on a metamodelling platform in order to achieve an optimal result from a usage point of view.

[2] The term "abstract" in this document is used in the way to express, that this class does not have any graphical visualization in the modelling toolkit.

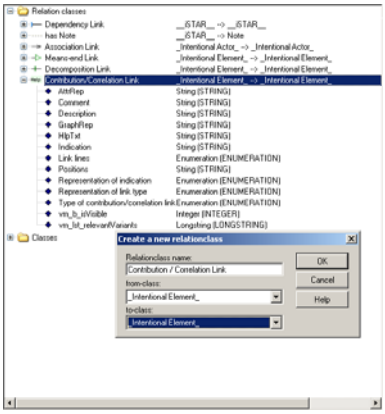


Figure 5: Dialog to Create the Relation Class "Correlation / Contribution Link"

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: "Library Management" \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Class hierarchy \ View: Metamodel \ View: Class hierarchy.

Appendix
Please find the exported code of the entire implementation of the *i** Method on ADO*xx*® in the appendix of this document.

2.3 Implementation of the Syntax & Parts of the Semantic Schema

Once the "skeletal structure" of the method has been realized on the metamodel of the ADOxx® platform, the next step is to determine the syntax of the modelling language. At this point the *i** Method gives a precise formal description about the syntax of the classes by means of attributes. The only mandatory requirement of the platform is that each class, modelling class or relation class, has a name attribute. To create a new attribute the following steps need to be performed:

- Select the class the attribute should be assigned to,
- Right mouse click "New Attribute",
- Enter the name of the attribute to be created, e.g. *"Description"*,
- Determine the *"Type"* the attribute should be of, e.g. *"String"*,
- Repeat these steps for all attributes to be created.

The ADOxx® platform also offers the concept of inheritance. Classes which have been derived from another class inherit the attributes of the "source". If the attribute has been inherited or specifically created for the class is indicated by the ADOxx® platform (see Figure 6).

Figure 6: Icons for Attributes and 'States' of Attributes
(from left-to-right: created, inherited, class attribute, inherited class attribute)

The ADOxx® platform distinguishes between class attributes and instance attributes. The difference between these two lay in the values the attribute can adopt. Class attributes are context neutral and not to be filled by the end user or modeller using the method after implementation. Instance attributes are context dependent and will be used by the modeller to capture data and convey certain information [13, p. 100].
Figure 7 shows the list of attributes of the class actor as implemented in the ADOxx® platform. Furthermore a complete list of the attributes of a class is shown in the AttrRep. Further explanations about the AttrRep are given in chapter 2.5 Platform Specifics – Connecting the Parts of this document.

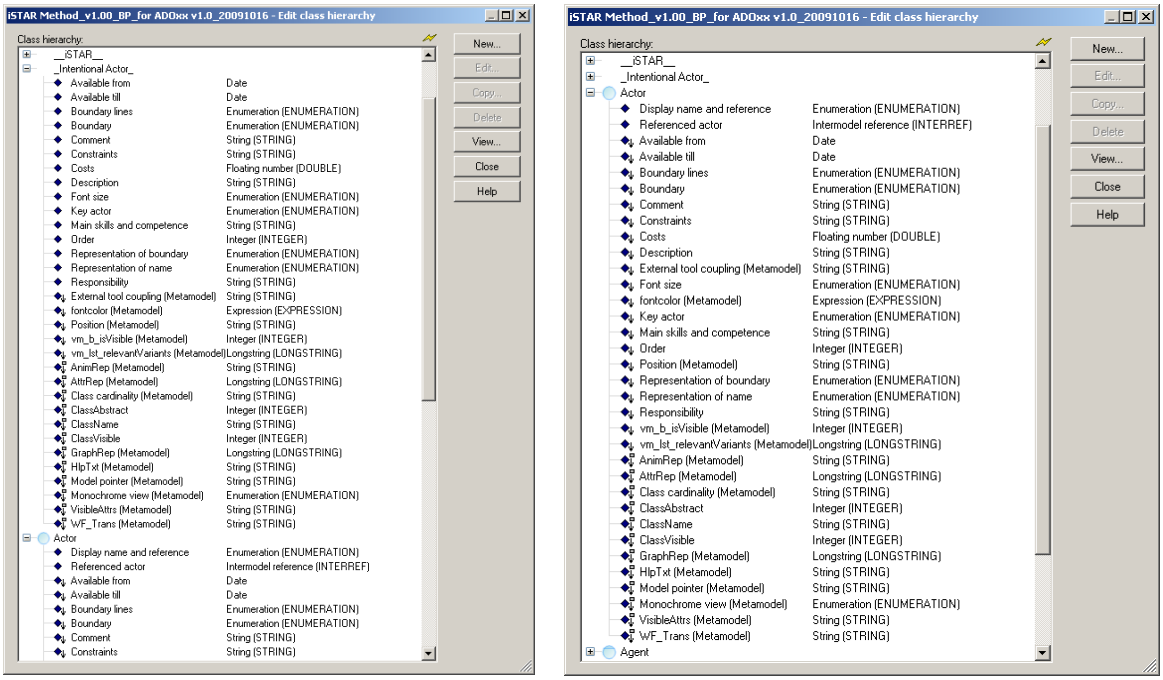


Figure 7: Syntax in Form of Attributes of the Class Actor

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: "Library Management" \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Class hierarchy \ View: Metamodel.

In addition to the syntax of a modelling language parts of the semantic schema are also implemented in this step. The semantic of a modelling language as assumed for this implementation is partly expressed by the values which may be captured in the entry fields of the attributes forming the syntax of the modelling language.

2.4 Implementation of the Notation & Visualization Usability Features

As an "immediate" next step the implementation of the notation should follow. In ADOxx® the notation is an indispensable step as otherwise none of the up to know implemented structure can be used, i.e. no models can be created showing a particular context.
Furthermore the notation is important as it also supports the visualization of certain information or data in the model by using entries of the created attributes. In some cases the modelling method foresees a change of the notation of a certain class, e.g. if a condition is fulfilled, the instance of a class is of a certain type depending on the context etc. These changes of the notation will not happen if it is not implemented accordingly, e.g. if / then concepts and related 'notational behaviour'.
In ADOxx® the notation is implemented in the "GRAPHREP" dialog. For the code the "LEO" language is used. LEO is a script language. The language incorporates certain key words which apply for certain functionality. The entire structure and set of language elements, thus the syntax of LEO, and values applicable are described and offered in the "help" of the ADOxx® platform.
To demonstrate the explanations a brief example is given:

```
GRAPHREP
GRADIENT_RECT style:updiag color1:blue color2:yellow
x:-1.4cm y:-.7cm w:2.8cm h:1.4cm
PEN w:0.05cm color:dodgerblue
RECTANGLE x:-1.4cm y:-.7cm w:2.8cm h:1.4cm
…
```

Explanation of the example, so the code of the example contains the following information:

The definition of the notation of a class always starts with the key word “GRAPHREP”. Then a “virtual pencil” is defined as a line should be drawn. For the pencil it is necessary to define how thick the line should be and of which colour. The key word for the pencil is “PEN” and the attribute for the thickness is “w – width”. The value for the “w” is a value of cm, as a measuring unit. The colour is entered as a value for the attribute “color”. LEO offers a list of predefined colours. The colour can be entered as an RGB value or in form of a predefined colour name. In the example the pen colour is a particular blue value.
A “RECTANGLE” is drawn with “x” and “y” as “upper left corner”, i.e. the starting point of the line, and with a “width - w” and “height – h”. The left and the right side of the rectangle are always parallel to the y-axis, the other two sides thus parallel to the x-axis.
The rectangle is filled with a particular “FILL” colour. In the example the colour is a gradient using the colours blue and yellow. The “style” value “updiag” indicates that the rectangle is coloured with a gradient diagonally upward hatched surface. The gradient in form of a rectangle of a particular size used as a fill colour would overwrite the defined PEN in line 2. For this reason it is moved to the second line.

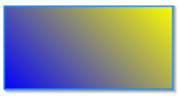


Figure 8: The „Result“ of the GRAPHREP Code Example

Yet, another example of how the notation of the classes of the *i** Method looks, is the implementation of the “Notation of the class *actor”* as shown below*:*

```
GRAPHREP layer:0 sizing:keep-aspect-ratio
  SHADOW off
  AVAL set-default: "without" b: "Boundary"
  AVAL set-default: "down right" rb: "Representation of boundary"
  AVAL set-default: "inside" r: "Representation of name"
  AVAL set-default: "solid" bl: "Boundary lines"
  AVAL set-default: "no" ka: "Key actor"
  AVAL i: "Order"
  AVAL set-default:"x" p:"Referenced actor"
  AVAL sub:"Referenced actor"
  AVAL display:"Display name and reference"
  AVAL refObj:"Referenced actor"

    PEN w:0.05cm color:dodgerblue endcap:flat join:round
    IF (bl = "dashed" AND ka="no")
      PEN w:0.05cm color:dodgerblue endcap:flat join:round style:dashdot
    ELSIF (ka= "yes" AND bl="solid")
      PEN w:0.1cm color:red endcap:flat join:round
    ELSIF (bl = "dashed" AND ka="yes")
      PEN w:0.1cm color:red endcap:flat join:round style:dashdot
    ENDIF

    IF (rb = "top right" AND b = "with")
      CLIP_ELLIPSE x:3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
      GRADIENT_RECT x:-3.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
      FILL style:null
      CLIP_OFF
      ELLIPSE x:3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
    ELSIF (rb = "down right" AND b = "with")
      CLIP_ELLIPSE x:3.0cm y:3.0cm rx:3.88cm ry:3.88cm
      GRADIENT_RECT x:-3.88cm y:-3.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
      FILL style:null
      CLIP_OFF
```

```
    ELLIPSE x:3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = "down left" AND b = "with")
    CLIP_ELLIPSE x:-3.0cm y:3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-1cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
  ELSIF (rb = "top left" AND b = "with")
    CLIP_ELLIPSE x:-3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
  ENDIF

 STRETCH off
 CLIP_ELLIPSE rx:.88cm ry:.88cm
 GRADIENT_RECT x:-.88cm y:-0.88cm w:1.8cm h:1.8cm style:downdiag color1:powderblue color2:white
 FILL style:null
  IF (ka = "yes")
    PEN w:0.1cm color:red endcap:flat join:round
  ELSE
    PEN w:0.05cm color:dodgerblue endcap:flat join:round
  ENDIF
 CLIP_OFF
 ELLIPSE rx:-0.88cm ry:0.88cm

 FONT h:10pt
 AVAL set-default: "10" grad:"Font size"
 FONT h:(PT grad)

 IF (r = "inside")
  IF (display = "yes")
    ATTR "Name" w:c:11.8cm h:c line-break: words
    ATTRBOX "Name" w:c:2.2cm h:c
    FONT "Arial" h:8pt bold
    ATTR "Referenced actor" y:(texty2) w:c:1.8cm h:t format:"%o (%m)"
    FONT
  ELSE
    ATTR "Name" w:c:1.8cm h:c line-break: words
  ENDIF
 ELSE
  IF (display = "yes")
   ATTR "Name" w:c:1.8cm h:t y:1cm line-break: words
   ATTRBOX "Name" w:c:1.8cm h:t y:1cm
   FONT "Arial" h:8pt bold
   ATTR "Referenced actor" y:(texty2) w:c:1.8cm h:t format:"%o (%m)"
   FONT
  ELSE
   ATTR "Name" w:c:1.8cm h:t y:1cm line-break: words
 ENDIF
ENDIF
  IF ( refObj != "" )
    FONT "Wingdings" h:18.0pt color:(col)
    TEXT "Ã" x:1.1cm y:-.5cm w:r h:b
    HOTSPOT "Referenced actor" x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
  ENDIF
```

```
IF (i > "0")
  FONT "Arial" h:10.0pt color:dodgerblue bold
  ATTR "Order" x:0.75cm y:-0.93cm w:l h:t
ENDIF
```

The notation is implemented in a different menu than the metamodel. Furthermore it is again a one-by-one procedure for the different modelling and relation classes.

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: "Library Management" \ select BP library <iSTAR Method_v1.00_BP_for ADOxx v1.0> \ Button: Class attributes \ Classes <depends on if the notation of a modelling class or a relation class should be implemented> \ Graphrep.

2.5 Platform Specifics – Connecting the Parts

The following two steps are essential for using the method, i.e. create context or instance models. None of the up to now realized parts could be used without these two. The two final steps are:

- Determine the Notebook structure,
- Define the Modeltypes.

2.5.1 Determine the Notebook Structure

In ADOxx® the created attributes of a class are displayed in a so called "notebook". The notebook is defined separately for each class, though it is recommended to use the same structure for all classes for consistency reasons and as a consequence to support clearness to the end user. Figure 9 shows the notebook of the class actor. The tabs on the right hand side are called "chapters". The actor class shows four different chapters "General", "Description", "Further Details – Benefits" and "Further Details – Constraints". The class actor has eighteen attributes whereas five are in the chapter "General", four in the chapter "Description", … and so on.

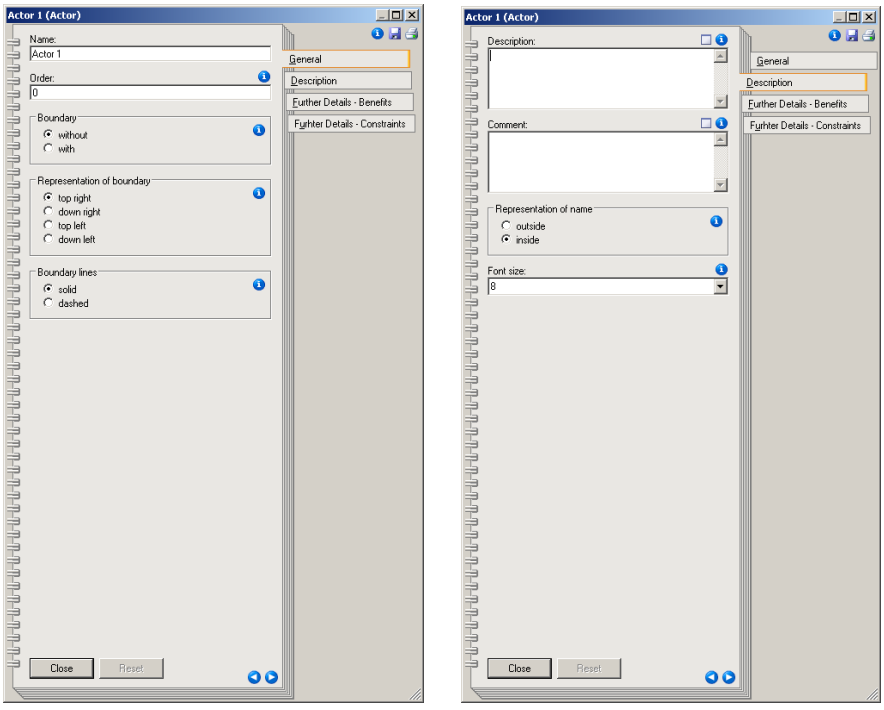


Figure 9: Notebook of the Class Actor - Chapters "General" and "Description"

The chapters of a class are implemented in the "AttrRep" dialog. The definition of the notebook of a class always starts with the key word "ATTREP". The AttrRep dialog also works with key words. The most important ones are "CHAPTER" and "ATTR". The term CHAPTER and in the same line under inverted commas the name of the chapter to be created, e.g. CHAPTER "Description" indicates that such a chapter should be created for the notebook. The key word ATTR and in the same line under inverted commas the name of the attribute, e.g. ATTR "Boundary" indicates that this attribute is assigned to the chapter wherein the ATTR entry has been made.
Please note, when closing the dialog ADOxx® checks automatically the AttrRep entries if the attribute, i.e. "Boundary", has actually be created in the metamodel yet. If the attribute does not exist or for example in case of a typo an error message is displayed. Figure 10 shows the notebook definition of the class actor.

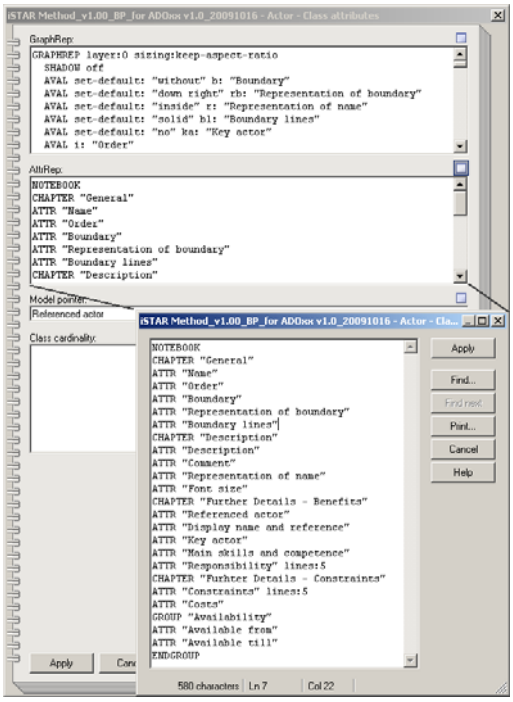


Figure 10: ATTREP Dialog of the Class Actor

If the class "does not need" a notebook because no information is intended to be captured for it, the AttrRep definition step is left out. Thus it is unlikely for modelling classes, relation classes very often do not offer a notebook. If the step is skipped totally, this means also that none of the defined attributes forming the syntax can be used – not even the name attributes!

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: "Library Management" \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Class attributes \ Classes <depends on if the notation of a modelling class or a relation class should be implemented> \ Attrep.

2.5.2 Define the Modeltypes

"Modeltypes" in ADOxx® are a 'structuring element' which is applied for all modelling and relation classes created for a modelling method. Depending on the particular purpose a set of classes is used as defined by the method developer, in ADOxx® they are grouped in form of modeltypes. For example, in a modeltype "business process model" all modelling and relation classes that are needed to map a flow are grouped, in a UML class diagram all modelling and relation classes that are needed to map a class diagram are grouped.
Furthermore in ADOxx® different "views" can be realized within a modeltype.
For the *i** Method one modeltype "Intentional actors and elements model" is realized. The *i** Method knows the concepts of a Strategic Dependency Model and a Strategic Rationale Model. As both are

using a basic set of the same modelling elements two separate modeltypes would not have been meaningful and this in particular as both re-use the same instances for modelling certain context. Hence, one modeltyp with two views “Strategic Dependency Model” and “Strategic Rationale Model” have been realized. The view “Strategic Dependency Model” groups all modelling concepts necessary to map strategic dependencies for a particular scenario.
The definition of a model type always starts with the key word “MODELTYPE”. The name of the modeltype to be created follows the key word under inverted commas, e.g. MODELTYPE “Intentional actors and elements model”. The allocation of available modelling and relation classes to a modeltype is performed with the key words “INCL” and “EXCL”. Therefore, INCL “Actor” indicates that the class actor is assigned to the modeltype the term is placed underneath.
The view concept in ADOxx® is a visualization mode on a predefined number of modelling and relation classes. With views, objects in a model can be shown or hidden. For creating a view the key word is “MODE” which is followed in quotes by the name of the view, e.g. MODE “Strategic Rationale Model”. After the mode entry it is determined which classes should be part of the view again by using the INLC and EXCL key words.
Figure 11 shows the “Modi” dialog for the modeltype and view mode definition in ADOxx®.

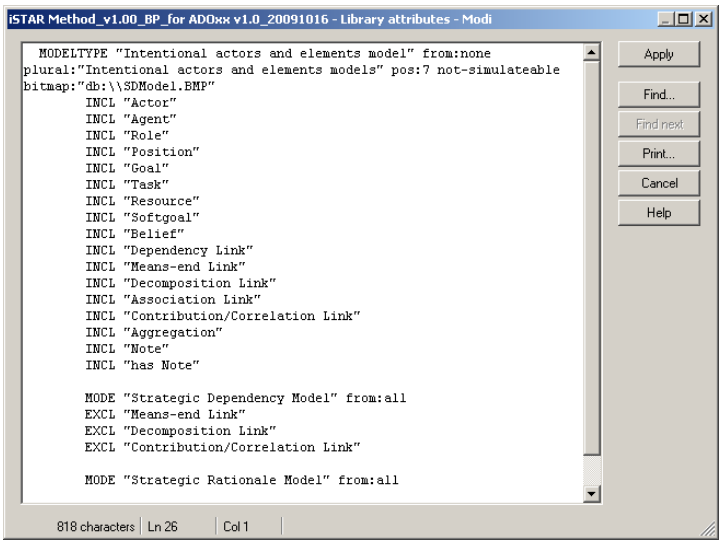


Figure 11: The Modi Dialog of the *i** Method on ADOxx®

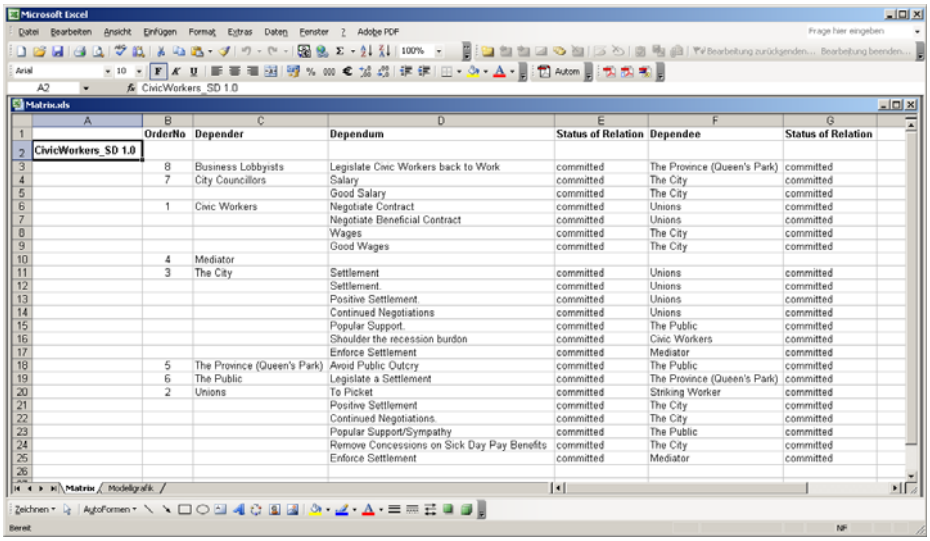
Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: “Library Management” \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Library attributes \ Chapter “Add-ons” \ Modi.

2.6 *i** Method Specific Mechanisms & Algorithms

According to Karagiannis/Kühn a modelling method does not only comprise a modelling language with the parts syntax, notation and semantics but also a modelling procedure and mechanisms & algorithms [3]. This fifth step is related to the last part. In the following *i** Method specific mechanisms are described.
Mechanisms & algorithms in ADOxx® are realised using a concept called AdoScript. AdoScript is the “macro language” of ADOxx®. It is based on “LEO” and has a procedural structure. With AdoScripts easy access to almost all ADOxx® functionalities is possible and this without too much programming effort. AdoScripts are for example used for creating

- New menus,
- Integration of new tools,
- Realizing specific model checks or
- Realizing new interfaces.

AdoScripts are can be implemented in form of specific “menu items” or in form of “events”, e.g. on event “SaveModel”. For each component of ADOxx® library specific menu items can be realized. These call and execute the connected script/s. For the integration of these AdoScripts ADOxx® offers “MessagePorts” [14].
The *i** Method as defined by Yu foresees evaluation scenarios for goal reasoning which give the possibility to assess situations within an *i** model. These assessment scenarios have not been implemented in form of algorithms for the *i** Method variant on ADOxx®. Instead it seemed to be meaningful to support getting out the most important information of an existing *i** model. As “most important” the dependencies within a context pictured in an *i** model were considered. Therefore a report named “Strategic Actor Relationship Matrix” has been realized. The “report” focuses on the Strategic Dependency Model view and aims to show which actor is related to another actor through which intentional element, i.e. by a goal, resource, task or softgoal. As the *i** Method foresees that a dependency can adopt the status “open”, “critical” or “committed” it could be essential to know which dependencies and actors are hit in order to undertake appropriate measures.
Figure 12 gives an example of such a “Strategic Actor Relationship Matrix” report. The matrix works for one model or as Figure 14 shows for multiple models. The script is extended with a separate model selection user dialog if multiple models should be considered.



	A	B	C	D	E	F	G
1		OrderNo	Depender	Dependum	Status of Relation	Dependee	Status of Relation
2	CivicWorkers_SD 1.0						
3		8	Business Lobbyists	Legislate Civic Workers back to Work	committed	The Province (Queen's Park)	committed
4		7	City Councillors	Salary	committed	The City	committed
5				Good Salary	committed	The City	committed
6		1	Civic Workers	Negotiate Contract	committed	Unions	committed
7				Negotiate Beneficial Contract	committed	Unions	committed
8				Wages	committed	The City	committed
9				Good Wages	committed	The City	committed
10		4	Mediator				
11		3	The City	Settlement	committed	Unions	committed
12				Settlement	committed	Unions	committed
13				Positive Settlement	committed	Unions	committed
14				Continued Negotiations	committed	Unions	committed
15				Popular Support	committed	The Public	committed
16				Shoulder the recession burdon	committed	Civic Workers	committed
17				Enforce Settlement	committed	Mediator	committed
18		5	The Province (Queen's Park)	Avoid Public Outcry	committed	The Public	committed
19		6	The Public	Legislate a Settlement	committed	The Province (Queen's Park)	committed
20		2	Unions	To Picket	committed	Striking Worker	committed
21				Positive Settlement	committed	The City	committed
22				Continued Negotiations	committed	The City	committed
23				Popular Support/Sympathy	committed	The Public	committed
24				Remove Concessions on Sick Day Pay Benefits	committed	The City	committed
25				Enforce Settlement	committed	Mediator	committed
26							

Figure 12: Example of a Intentional Actors Relationship Matrix

The AdoScript which creates the matrix is embedded in the Modelling Component menu for the *i** Method using the Messageboard *CC "AdoScript"* to load and execute the script by “user-interaction”, i.e. pressing the menu button.

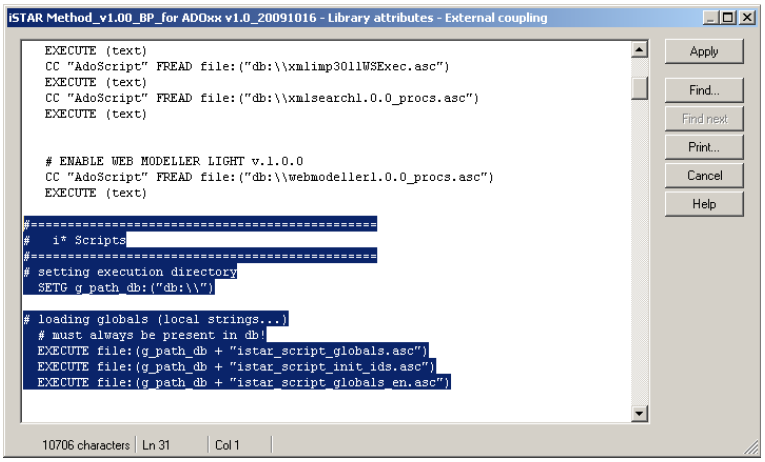


Figure 13: Part in the External Coupling Dialog where the *i** Script Calls are Embedded

The additional menu in the Modelling Component demands the following entry in the External Coupling dialog. Please note that the first three characters of each line are line numbering characters.

```
1  ITEM "Intentional Actors Relationship Matrix"
2       sub-of:"Reports for Intentional Actors..." pos1:4
3       modeling:"i* Functionality"
4
5  CC "AdoScript" FREAD file:(g_path_db + "istar_script_xls_reports.asc")
6..   #->RESULT text:strValue ecode:intValue
7     IF (text = "" OR ecode !=0)
8  {
9       CC "AdoScript" ERRORBOX ("File wasn't found! Please search!")
10  }
11    ELSE
...
```

The menu appears like shown in Figure 14.

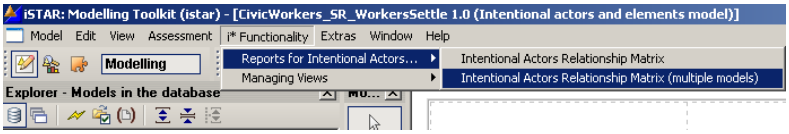


Figure 14: *i** Method Specific Menu in the Modelling Component

The actual script is a separate document and stored in the ADOxx® database. The main script realized for the *i** Method is a script named "`istar_script_xls_reports.asc`". This script is called by the command "`CC "AdoScript" FREAD file:`" as shown in line 5 of the script excerpt above.
Please find below an excerpt of the beginning of the `istar_script_xls_reports.asc` script:

```
#-------------------------------------------------------------------------
# ADONIS(R) iSTAR - based on ADONIS 3.9 v 1.00_20090219_2
#
# University of Vienna, DKE, 2009
#-------------------------------------------------------------------------

SETL idlist_modelids:("")

IF (oneModelOnly = 1)
{
#-----------------------------------------------------------------
#--Check if model is loaded
#-----------------------------------------------------------------

  SEND "GET_ACTIVE_MODEL" to:"Modeling" answer:modelid
  IF (modelid = "")
  {
    CC "AdoScript" INFOBOX (g_str_ui_IAR_matrix_info1)
    EXIT
  }
#-----------------------------------------------------------------
#--Check if active model is of type Intentional actors and elements model
#-----------------------------------------------------------------

  SETL id_model:(VAL modelid)
  CC "Core" GET_MODEL_INFO modelid:(id_model)
    IF (modeltype != mod_type8)

  {
    CC "AdoScript" INFOBOX (g_str_ui_IAR_matrix_info2)
    EXIT
  }
  SETL idlist_modelids:(modelid)

}
```

```
IF (oneModelOnly = 0)
{
#-----------------------------------------------------------------
#--Open model select box
#-----------------------------------------------------------------
CC "CoreUI" MODEL_SELECT_BOX
                              title:"Please select the main models to be
considered" multi-sel modeltype:(mod_type8)
                              boxtext:(g_sXlsReport_boxtextSelectMainModels)
#-->RESULT    endbutton:strValue    modelids:idList    |    threadids:idList
mgroupids:idList

  IF (endbutton = g_str_endbutton_cancel)
   {
   SETL nReturnValue:(g_bXlsReport_RETURN_VALUE_EXIT)
   EXIT
   }
   ELSE
   {
      SETL idlist_modelids:(modelids)
   }
}
```

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: “Library Management” \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Library attributes \ Chapter “Add-ons” \ External coupling.

The described mechanism is specific for the *i** Method. As it does not use any basic platform functionality which is just “configured” for the *i** Method it would be an example for a Another Mechanism

2.7 Implementation and Configuration of Generic Mechanisms & Algorithms – Implementation of “Usage” Features

This last step is not directly related to the *i** Method itself. It is related to usability features the ADOxx® platform offers and therefore do not base on a specification initially given for the method by the method developer. The further functionality which has been adapted for the *i** Method are the definition of a customized

- Report in HTML format as an example of a generic Mechanism & Algorithm,
- Page layout for model print-outs.

Though, not essential for using the implementation, both features have proved of being meaningful when using methods realized on the ADOxx® platform.

2.7.1 The Report in HTML Format

The html report is intended for situations where models showing a particular context should be shared with colleagues or other people. The main advantage of this report is that only a browser is needed in order to open it up. No further installation is needed.
Depending on the configuration of the report all contents captured in the models and in more detail in the instances of a certain class, are also accessible in the report. To open up a notebook of an instance object works the same way in the report as in the actual Modelling Toolkit of ADOxx® - by a click on the object. Figure 16 gives an example of such a report in html format as configured for the *i** Method.

For the report in html format the general reporting functionality of ADOxx® has been used. The report has only been adapted. The html report is offered in the Import/Export Component of ADOxx® in the menu “Documentation” as shown in Figure 15.

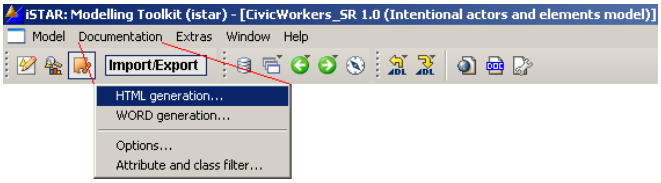


Figure 15: Menu in the Modelling Toolkit for the HTML Report Generation

Again AdoScripts have been used in order to create the additional menu in the Import/Export Component. The code excerpt below shows the embedding of the menu and underlying call of an *i** Method specific script for the html report. The script steers in particular the layout and contains the *i** specific terms and therefore rather works as a configuration file for the report.

```
#=============================================
#--IMPORT/EXPORT--#
#---------------------------------------------
ITEM "HTML generation..." name_de:"HTML-Generierung..."
     importexport:"~Documentation" importexport_de:"~Dokumentation" pos2:0
#---------------------------------------------
CC "AdoScript" FREAD file:(g_path_db + "istar_make_html.asc")
EXECUTE (text)
...
```

The report is created by the user in the Modelling Toolkit. The user selects the models that are to be in the report. The report works for one but also for several models.

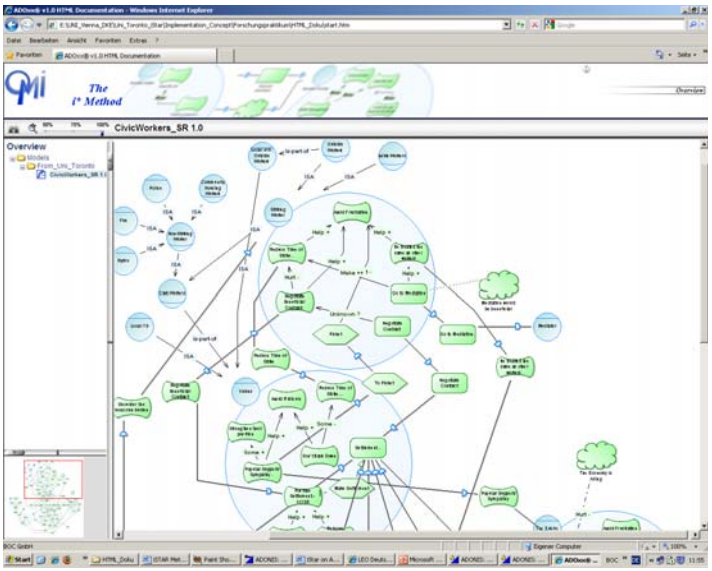


Figure 16: Excerpt of the HTML Report for the *i** Method

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: “Library Management” \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Library attributes \ Chapter “Add-ons” \ External coupling.

2.7.2 Page Layout for Model Print-Outs

ADOxx® gives the possibility to define more than one page layout. The different page layouts are basically valid for all modeltypes and are offered in the print menu for model print-outs in the modelling toolkit.
The definition of a page layout always starts with the key word “LAYOUT”. The name of the page layout to be created follows the key word under inverted commas, e.g. LAYOUT “*i** Method”. The language for the page layout is the same than for the GRAPHREP definition, i.e. LEO. Besides LAYOUT, there are the key words HEAD and FOOT indicating that the upcoming lines are either valid for the HEAD or for the FOOT area of the page.
There is always a default page layout offered in the ADOxx® platform. For the *i** Method the page layout “*i** Method” was additionally defined as shown in Figure 17.

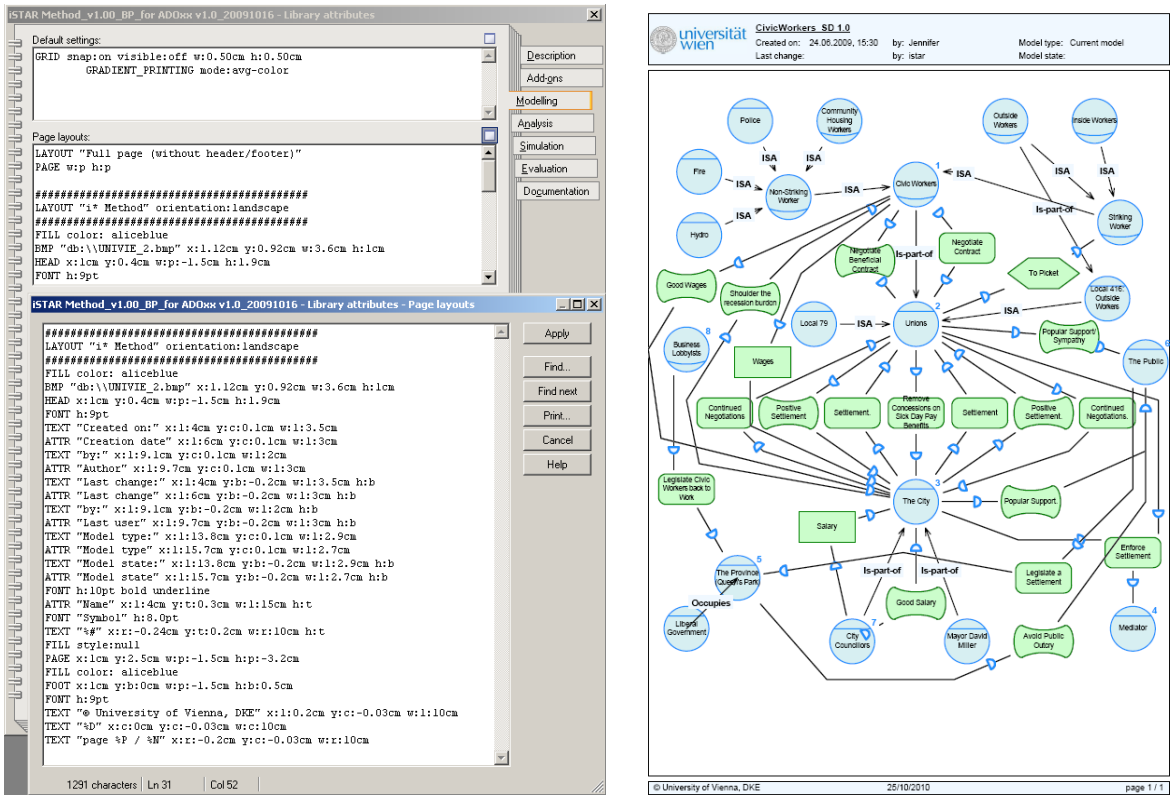


Figure 17: Definition and Design of the Page Layout for the *i** Method

Menu for the Implementation in ADOxx®
Administration Toolkit \ Component: “Library Management” \ select BP library <iSTAR Method_v1.00_ BP_for ADOxx v1.0> \ Button: Library attributes \ Chapter “Modeling” \ Page layouts.

3 Compilation as a Stand-alone Application

The entire implementation was initially performed in the Open Model Environment. After the finalization of the first prototype it has been decided to deploy the *i** Method implementation on ADOxx® as a separate tool in form of a stand-alone solution. For this the entire application library containing the method, concrete the "iSTAR Method_v1.00_for ADOxx v1.0.abl" application library, formed the input for the "compiler".

The series of steps that are required for this result will not be described in this document. Please find the solution to download at http://www.openmodels.at/web/istar/4 - istar modelling environment.

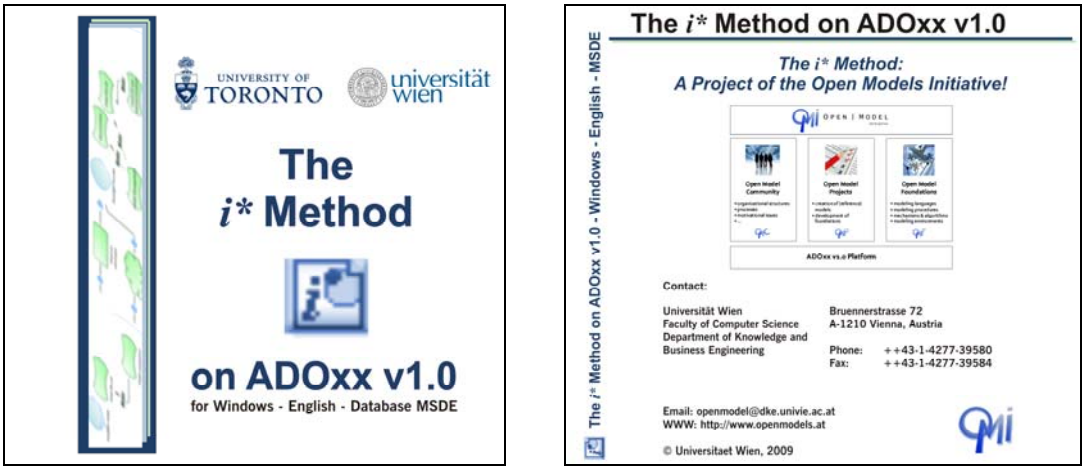


Figure 18: Cover of the Installation CD for the *i** Method as a Stand-alone Environment

4 References

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APPENDIX

<!DOCTYPE ADO PUBLIC "-//BOC GmbH//DTD ADOxx Library Export//EN"><ADO FILEBASE="istar_AB_20101015" FILEEXT="sgm" GFXEXT="jpg" GFXDPI="150"><APPLICATIONLIBRARY NAME="iSTAR Method_v1.00_for ADOxx v1.0_20091016" METAMODEL="ADONIS-standard-metamodel" ID="ID510200" BPLIBRARY="ID510202" WELIBRARY="ID510531"><LIBRARYATTRIBUTE NAME="Version number" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Author" TYPE="Longstring">Admin</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Creation date" TYPE="Longstring">11.11.2009, 15:03</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Date last changed" TYPE="Longstring">11.11.2009, 15:04</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Last user" TYPE="Longstring">Admin</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Keywords" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Comment" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Description" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Modi" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Page layouts" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Simmapping" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Simtext" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Relation analysis" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Service" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="User defined" TYPE="Enumeration">yes</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Library icons" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation input fields" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation AQL commands" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation result attributes" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Sim result mapping" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Numbering" TYPE="Enumeration">numeric</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Graphical representation" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Days per year" TYPE="Double">0,000000</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Hours per day" TYPE="Double">0,000000</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="CCC mapping" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="CCC default setting" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Object arrangement" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="External coupling" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Relation re-definition" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Agent definition" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Variable check" TYPE="Enumeration">on</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Configuration of documentation" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Default settings" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Predefined queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Predefined evaluation queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Dynamic evaluation modules" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Path navigator" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Versioning format" TYPE="Longstring"></LIBRARYATTRIBUTE>

</APPLICATIONLIBRARY>
<LIBRARY NAME="iSTAR Method_v1.00_BP_for ADOxx v1.0_20091016" METAMODEL="ADONIS-standard-BP-metamodel" ID="ID510202" TYPE="BP"><LIBRARYATTRIBUTE NAME="Version number" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Author" TYPE="Longstring">Admin</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Creation date" TYPE="Longstring">11.11.2009, 15:03</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Date last changed" TYPE="Longstring">31.05.2010, 18:36</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Last user" TYPE="Longstring">Admin</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Keywords" TYPE="Longstring">i* Method based on ADOxx v1.0</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Comment" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Description" TYPE="Longstring">The implementation is based on an empty ADONIS 3.9 version (date: 20071002).</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Modi" TYPE="Longstring"> MODELTYPE "Intentional actors and elements model" from:none plural:"Intentional actors and elements models" pos:7 not-simulateable bitmap:"db:\\SDModel.BMP"
INCL "Actor"
INCL "Agent"
INCL "Role"
INCL "Position"
INCL "Goal"
INCL "Task"
INCL "Resource"
INCL "Softgoal"
INCL "Belief"
INCL "Dependency Link"
INCL "Means-end Link"
INCL "Decomposition Link"
INCL "Association Link"
INCL "Contribution/Correlation Link"
INCL "Aggregation"
INCL "Note"
INCL "has Note"

MODE "Strategic Dependency Model" from:all
EXCL "Means-end Link"
EXCL "Decomposition Link"
EXCL "Contribution/Correlation Link"

MODE "Strategic Rationale Model" from:all

MODE "Documentation" from:all no-modeling</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Page layouts" TYPE="Longstring">LAYOUT "Full page (without header/footer)"
PAGE w:p h:p

##
LAYOUT "i* Method" orientation:landscape
##
FILL color: aliceblue
BMP "db:\\UNIVIE_2.bmp" x:1.12cm y:0.92cm w:3.6cm h:1cm
HEAD x:1cm y:0.4cm w:p:-1.5cm h:1.9cm
FONT h:9pt
TEXT "Created on:" x:l:4cm y:c:0.1cm w:l:3.5cm
ATTR "Creation date" x:l:6cm y:c:0.1cm w:l:3cm
TEXT "by:" x:l:9.1cm y:c:0.1cm w:l:2cm
ATTR "Author" x:l:9.7cm y:c:0.1cm w:l:3cm
TEXT "Last change:" x:l:4cm y:b:-0.2cm w:l:3.5cm h:b
ATTR "Last change" x:l:6cm y:b:-0.2cm w:l:3cm h:b
TEXT "by:" x:l:9.1cm y:b:-0.2cm w:l:2cm h:b
ATTR "Last user" x:l:9.7cm y:b:-0.2cm w:l:3cm h:b
TEXT "Model type:" x:l:13.8cm y:c:0.1cm w:l:2.9cm
ATTR "Model type" x:l:15.7cm y:c:0.1cm w:l:2.7cm
TEXT "Model state:" x:l:13.8cm y:b:-0.2cm w:l:2.9cm h:b
ATTR "Model state" x:l:15.7cm y:b:-0.2cm w:l:2.7cm h:b
FONT h:10pt bold underline
ATTR "Name" x:l:4cm y:t:0.3cm w:l:15cm h:t
FONT "Symbol" h:8.0pt
TEXT "%#" x:r:-0.24cm y:t:0.2cm w:r:10cm h:t
FILL style:null
PAGE x:1cm y:2.5cm w:p:-1.5cm h:p:-3.2cm
FILL color: aliceblue
FOOT x:1cm y:b:0cm w:p:-1.5cm h:b:0.5cm
FONT h:9pt
TEXT "© University of Vienna, DKE" x:l:0.2cm y:c:-0.03cm w:l:10cm
TEXT "%D" x:c:0cm y:c:-0.03cm w:c:10cm
TEXT "page %P / %N" x:r:-0.2cm y:c:-0.03cm w:r:10cm</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Simmapping" TYPE="Longstring">SIMCLASSES bp-none we-none
</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Simtext" TYPE="Longstring">SIMTEXT
bp: "Business process"
cycletime: "Cycle time"
activity: "Activity"
number: "Number"
actor: "Performer"
perscost: "Personnel costs"
resource: "Resource"
rescost: "Resource costs"</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Relation analysis" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Service" TYPE="Longstring">Address:

University of Vienna
Department of Knowledge and Business Engineering
Bruennerstrasse 72
1010 Vienna, Austria

</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="User defined" TYPE="Enumeration">yes</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Library icons" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation input fields" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation AQL commands" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Evaluation result attributes" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Sim result mapping" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Numbering" TYPE="Enumeration">numeric</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Graphical representation" TYPE="Longstring">GRAPHREP
FILL color:aliceblue
RECTANGLE x:-.3cm y:-.3cm w:.6cm h:.6cm
</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Days per year" TYPE="Double">170,000000</LIBRARYATTRIBUTE>

<LIBRARYATTRIBUTE NAME="Hours per day" TYPE="Double">8,000000</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="CCC mapping" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="CCC default setting" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Object arrangement" TYPE="Longstring">DISABLE edit arrange

PROFILE "Standard (horizontal)" type:"std"
DEFMODELTYPE "Intentional actors and elements model"
#DEFMODELTYPE "Company map"
MINCROSS upon upcount:10 dwnon dwncount:10
PENDULUM upon upcount:10 dwnon dwncount:10
FLIPFLY mirrhor toright
DOUBLEBP dist:3
CHNGSIZE vertdist:5 hordist:5
CLASSMODELTYPE "Intentional actors and elements model"
CLASSPAR "Dependency Link" space:1 turn:0 priority:1
CLASSPAR "Sets" space:1 turn:1 priority:1
CLASSPAR "Uses" space:1 turn:0 priority:1
CLASSPAR "Sets variable" space:1 turn:0 priority:1
CLASSPAR "Uses" space:1 turn:0 priority:1
#CLASSMODELTYPE "Company map"
#CLASSPAR "Has process" space:1 turn:0 priority:1

PROFILE "Standard (vertical)" type:"std"
DEFMODELTYPE "Intentional actors and elements model"
#DEFMODELTYPE "Company map"
MINCROSS upon upcount:10 dwnon dwncount:10
PENDULUM upon upcount:10 dwnon dwncount:10
FLIPFLY dwn
DOUBLEBP dist:3
CHNGSIZE vertdist:5 hordist:5
CLASSMODELTYPE "Intentional actors and elements model"
CLASSPAR "Dependency Link" space:1 turn:0 priority:1
CLASSPAR "Sets" space:1 turn:1 priority:1
CLASSPAR "Uses" space:1 turn:0 priority:1
CLASSPAR "Sets variable" space:1 turn:0 priority:1
CLASSPAR "Uses" space:1 turn:0 priority:1
#CLASSMODELTYPE "Company map"
#CLASSPAR "Has process" space:1 turn:0 priority:1
</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="External coupling" TYPE="Longstring">#---- INIT GLOBAL VARS
 ON_EVENT "AppInitialized"
 {
#==
  # WEB SERVICE ENABLED - for "ADOWeb 1.0"
#==
  CC "AdoScript" FREAD file:("db:\\init_xmldocexp.asc")
  EXECUTE (text)

  # ENABLE XML EXPORT FOR WEBSERVICE
  #XML Export Version 3.0.12 (WU, with ids in IREFs)
  CC "AdoScript" FREAD file:("db:\\xmlexp3012WS.asc")
  EXECUTE (text)

  # ENABLE XML IMPORT FOR WEBSERVICE
  #XML Import Version 3.0.11
  CC "AdoScript" FREAD file:("db:\\xmlimp3011WSConstants.asc")
  EXECUTE (text)
  CC "AdoScript" FREAD file:("db:\\xmlimp3011WSPreview.asc")
  EXECUTE (text)
  CC "AdoScript" FREAD file:("db:\\xmlimp3011WSExec.asc")
  EXECUTE (text)
  CC "AdoScript" FREAD file:("db:\\xmlsearch1.0.0_procs.asc")
  EXECUTE (text)

  # ENABLE WEB MODELLER LIGHT v.1.0.0
  CC "AdoScript" FREAD file:("db:\\webmodeller1.0.0_procs.asc")
  EXECUTE (text)

#==
i* Scripts
#==
setting execution directory
  SETG g_path_db:("db:\\")

loading globals (local strings...)

```
  # must always be present in db!
  EXECUTE file:(g_path_db + &#34;istar_script_globals.asc&#34;)
  EXECUTE file:(g_path_db + &#34;istar_script_init_ids.asc&#34;)
  EXECUTE file:(g_path_db + &#34;istar_script_globals_en.asc&#34;)


    #-----------------------------------------------------------------------
    # set AdoScript HDL for html icon
    #-----------------------------------------------------------------------
    CC &#34;Application&#34; raw SET_ICON_CLICK_HDL component:&#34;importexport&#34; name:&#34;HTML&#34;
    {
      CC &#34;AdoScript&#34; FILE_EXIST file:(g_path_db + &#34;istar_make_html.asc&#34;)
        #--&gt;RESULT exist:[0|1]
      IF (NOT exist)
      {
        CC &#34;AdoScript&#34; ERRORBOX (c_str_ERROR_ASC_NOT_FOUND)
        EXIT
      }
      EXECUTE file:(g_path_db + &#34;istar_make_html.asc&#34;)
    }

    CC &#34;Application&#34; INSERT_ICON component:&#34;importexport&#34; pos:4 name:&#34;WORD&#34;
                            bitmap:&#34;db:\\word.bmp&#34; text:&#34;WORD generation&#34;

    #-----------------------------------------------------------------------
    # set AdoScript HDL for rtf/word icon
    #-----------------------------------------------------------------------
    CC &#34;Application&#34; SET_ICON_CLICK_HDL component:&#34;importexport&#34; name:&#34;WORD&#34;
    {
      EXECUTE file:(g_path_db + &#34;istar_make_rtf.asc&#34;)
    }

    CC &#34;Application&#34; SET_ICON_VISIBLE component:&#34;importexport&#34; name:&#34;DOCU&#34; visible:0


}
#================================================

#--IMPORT/EXPORT--#

#-------------------------------------------------
ITEM &#34;HTML generation...&#34; name_de:&#34;HTML-Generierung...&#34;
    importexport:&#34;~Documentation&#34; importexport_de:&#34;~Dokumentation&#34; pos2:0
#-------------------------------------------------
CC &#34;AdoScript&#34; FREAD file:(g_path_db + &#34;istar_make_html.asc&#34;)
EXECUTE (text)

#-------------------------------------------------
ITEM &#34;WORD generation...&#34; name_de:&#34;WORD-Generierung...&#34;
    importexport:&#34;~Documentation&#34; importexport_de:&#34;~Dokumentation&#34; pos2:1
#-------------------------------------------------
CC &#34;AdoScript&#34; FREAD file:(g_path_db + &#34;istar_make_rtf.asc&#34;)
EXECUTE (text)


#-------------------------------------------------
ITEM &#34;Attribute and class filter...&#34; name_de:&#34;Attribut- und Klassenfilter...&#34;
    importexport:&#34;~Documentation&#34; importexport_de:&#34;~Dokumentation&#34; pos2:5
#-------------------------------------------------
CC &#34;Documentation&#34; EXEC_ACFILTER attribute:&#34;Attribute and class filter&#34;


#--MODELING--#

#-------------------------------------------------

ITEM &#34;Inter-model references (multiple models)...&#34; name_de:&#34;Modell&uuml;bergreifende Referenzen (mehrere Modelle)...&#34;
    modeling:&#34;~Model&#34; modeling_de:&#34;~Modell&#34; pos2:16

#-------------------------------------------------
CC &#34;AdoScript&#34; FREAD file:(g_path_db + &#34;check_references_main.asc&#34;)
EXECUTE (text)

#---------------
#ITEM &#34;Change modelling direction&#34; name_de:&#34;Modellierungsrichtung wechseln&#34;
    #sub-of:&#34;Views&#34; sub-of_de:&#34;Sichten&#34;
```

```
    #modeling:&#34;~View&#34; modeling_de:&#34;~Ansicht&#34; pos2:4


#---------------
#TOGGLE_MOD_DIRECTION


#-------------------------------------------------
ITEM separator
    sub-of:&#34;Update attributes&#34; sub-of_de:&#34;Attribute aktualisieren&#34;
    modeling:&#34;~Edit&#34; modeling_de:&#34;~Bearbeiten&#34; pos3:1
#-------------------------------------------------

#-------------------------------------------------
ITEM &#34;Reset object numbering&#34; name_de:&#34;Objektnumerierung zur&uuml;cksetzen&#34;
    sub-of:&#34;Update attributes&#34; sub-of_de:&#34;Attribute aktualisieren&#34;
    modeling:&#34;~Edit&#34; modeling_de:&#34;~Bearbeiten&#34; pos3:1
#-------------------------------------------------
CC &#34;AdoScript&#34; FREAD file:(g_path_db + &#34;reset_numbering.asc&#34;)

EXECUTE (text)


# ****************************************************************************
# Margits Customizing - Shell
# ****************************************************************************
ITEM &#34;Intentional Actors Relationship Matrix&#34;
    sub-of:&#34;Reports for Intentional Actors...&#34; pos1:4
    modeling:&#34;i* Functionality&#34;


CC &#34;AdoScript&#34; FREAD file:(g_path_db + &#34;istar_script_xls_reports.asc&#34;)
  #-&gt;RESULT text:strValue ecode:intValue
 IF (text = &#34;&#34; OR ecode !=0)
{
   CC &#34;AdoScript&#34; ERRORBOX (&#34;File wasn&acute;t found! Please search!&#34;)
}
 ELSE
{
   SETG oneModelOnly:1
   EXECUTE (text)
}
ITEM &#34;Intentional Actors Relationship Matrix (multiple models)&#34;
    sub-of:&#34;Reports for Intentional Actors...&#34; pos2:4
    modeling:&#34;i* Functionality&#34;


CC &#34;AdoScript&#34; FREAD file:(g_path_db + &#34;istar_script_xls_reports.asc&#34;)
  #-&gt;RESULT text:strValue ecode:intValue
 IF (text = &#34;&#34; OR ecode !=0)
{
   CC &#34;AdoScript&#34; ERRORBOX (&#34;File wasn&acute;t found! Please search!&#34;)
}
 ELSE
{
   SETG oneModelOnly:0
   EXECUTE (text)
}

#----------------------------------------
#ITEM &#34;Further&#34;
#    sub-of:&#34;Reports for Intentional Actors...&#34; pos3:4
#    modeling:&#34;i* Functionality&#34;
#----------------------------------------

#CC &#34;AdoScript&#34; FREAD file:(&#34;db:\\istar_script_xls_reports.asc&#34;)


#=================================================================
#    START VARIANT MANAGEMENT - aus ADOit kopiert!
#=================================================================
# EVENTS
#====================
ON_EVENT &#34;CreateModel&#34;
{
 #PRINT &#34;CreateModel&#34;
```

```
  VM_CREATE_NEW_VARIANT id_activeModelid:(modelid)
                        str_variantName:(g_str_defaultVariant)
                        n_ecode:reference

IF (gBoolUseVersioning)
  {
    IF (gBoolEventCreateModelActive)
    {
      MENU_EXTENSION_NEW intModelId:(modelid)
    }
  }
}

ON_EVENT &#34;AfterCreateModelingNode&#34;
{
  #PRINT &#34;AfterCreateModelingNode&#34;
  VM_SAVE_ACTIVE_VARIANT b_computeNew:0
                         id_modelid:(modelid)
                         str_activeVariant:(g_str_defaultVariant)
                         lst_objsAndRels:(STR objid)
                         n_ecode:ec


  # After adding swimlane check whether reference overview is active
  # predefined values: modelid, objid, classid, origin

  SETL new_object_classid:(classid)

  # Check classids of the swimlanes

  # define global parameters for classid of swimlanes in bp-library
  CC &#34;Core&#34; GET_CLASS_ID classname:(c_CLASS_NAME5) bp-library
    #--&gt; RESULT ecode:intValue classid:intValue isrel:intValue
  SETG g_id_CLASSID_SWIMLANE_HORIZONTAL:(classid)

  CC &#34;Core&#34; GET_CLASS_ID classname:(c_CLASS_NAME6) bp-library
    #--&gt; RESULT ecode:intValue classid:intValue isrel:intValue
  SETG g_id_CLASSID_SWIMLANE_VERTICAL:(classid)

  # check whether swimlanes (ebene) are being added
  IF ( (new_object_classid = g_id_CLASSID_SWIMLANE_HORIZONTAL) OR (new_object_classid = g_id_CLASSID_SWIMLANE_VERTICAL) )
  {
    BP_SWIMLANE_CREATED id_modelid:(modelid)
                        id_objid:(objid)
                        id_classid:(classid)
                        n_origin:(origin)

}
#====================

}
ON_EVENT &#34;AfterCreateModelingConnector&#34;
{
  #PRINT &#34;AfterCreateModelingConnector&#34;
  VM_SAVE_ACTIVE_VARIANT b_computeNew:0
                         id_modelid:(modelid)
                         str_activeVariant:(g_str_defaultVariant)
                         lst_objsAndRels:(STR objid)
                         n_ecode:ec
}
#=================
ON_EVENT &#34;BeforeSaveModel&#34;
{
  IF (gBoolUseVersioning)
  {
    IF (NOT gBoolNewModelAsNewVersion)
    {
      IF (origin = &#34;saveas-new&#34;)
      {
        CC &#34;AdoScript&#34; INFOBOX (gStrMsgSaveModelAsDisabled)
        EXIT -1
      }
    }
  }
}
```

```
ON_EVENT &#34;RenameModelThread&#34;
{
  IF (gBoolUseVersioning)
  {
    IF ((NOT gBoolRenameAllowed) AND (NOT external))
    {
      CHANGE_BACK_MODELNAME intModelId:(modelthreadid)
                    strModelOldName:(oldname)
    }
  }
}

#=====================
# MENU ITEMS
#=====================

#------------
ITEM &#34;New...&#34; modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:0 sub-of:&#34;Managing Views&#34;
#-----------
VM_EXEC_NEW_DLG n_ecode:ec

#------------
ITEM &#34;Select...&#34; modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:1 sub-of:&#34;Managing Views&#34;
#----------
VM_EXEC_ACTIVATE_DLG n_ecode:ec

#-------------
ITEM &#34;Delete...&#34; modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:2 sub-of:&#34;Managing Views&#34;
#-------------
#PRINT &#34;Delete variant&#34;
VM_DELETE_VARIANT n_ecode:ec

#------------
ITEM separator modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:3 sub-of:&#34;Managing Views&#34;

#------------
#ITEM &#34;Hide selected objects...&#34; modeling:&#34;i* Functionality&#34;
   # pos2:4 pos3:4 sub-of:&#34;Managing Views&#34;
#------------
#PRINT &#34;Hide selected objects&#34;
#VM_HIDE_SELECTED_OBJECTS n_ecode:ec

#------------
ITEM &#34;Hide selected objects (including connected objects) ...&#34; modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:5 sub-of:&#34;Managing Views&#34;
#------------
#PRINT &#34;Hide selected/related objects&#34;
VM_HIDE_SELECTED_RELATED_OBJECTS n_ecode:ec

#------------
ITEM &#34;Hide invalid objects (validity period) - prepared...&#34; modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:6 sub-of:&#34;Managing Views&#34;
#-----------
#PRINT &#34;Hide invalid objects&#34;
#VM_HIDE_INVALID_OBJECTS n_ecode:ec

#-------------
ITEM &#34;Hide valid objects (validity period) - prepared&#34; modeling:&#34;i* Functionality&#34;
    pos2:4 pos3:7 sub-of:&#34;Managing Views&#34;
#------------
#PRINT &#34;Hide invalid objects&#34;
#VM_HIDE_VALID_OBJECTS n_ecode:ec


#=========================
#   END VARIANT MANAGEMENT
#=========================


</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Relation re-definition" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Agent definition" TYPE="Longstring"></LIBRARYATTRIBUTE>
```

<LIBRARYATTRIBUTE NAME="Variable check" TYPE="Enumeration">off</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Configuration of documentation" TYPE="Longstring">ATTRIBUTEMODI "@Documentation@@Doku@"

```
            EXPORT &#34;WORD generation&#34;
              smarticon:rtf
              visible:0
              menuname: &#34;WORD generation...&#34;
              filedescription: &#34;WORD files&#34;
              fileextension: &#34;*.doc&#34;
              filename:attribute: &#34;filename&#34;
              temp1: &#34;tempfilename&#34;

              SOURCE &#34;Model2SGML&#34;
                filename:attribute: &#34;tempfilename&#34;
                basename:attribute: &#34;filename&#34;
                libraryspecific:attribute: &#34;Apply model type specific settings&#34;
                subprocesses:attribute: &#34;Display subprocesses&#34;
                acfilter:attribute: &#34;Attribute and class filter&#34;

                LIBRARY
                  gfxformat:attribute: &#34;Graphic format for WORD&#34;
                  gfxdpi: 96.000000
                  notebookattr:attribute: &#34;Attribute mode&#34;
                  graphics:attribute: &#34;Create graphics&#34;
                  gfxorientation:attribute: &#34;Orientation&#34;
                  gfxlayout:attribute: &#34;Page layout&#34;
                  mode:attribute: &#34;Mode&#34;
                  gfxmode:attribute: &#34;Graphic file mode&#34;
                LIBRARY &#34;Intentional actors and elements model&#34;
                  gfxformat:attribute: &#34;Graphic format for WORD (SDM)&#34;
                  gfxdpi: 96.000000
                  notebookattr:attribute: &#34;Attribute mode (SDM)&#34;
                  graphics:attribute: &#34;Create graphics (SDM)&#34;
                  gfxorientation:attribute: &#34;Orientation (SDM)&#34;
                  gfxlayout:attribute: &#34;Page layout (SDM)&#34;
                  mode:attribute: &#34;Mode (SDM)&#34;
                  gfxmode:attribute: &#34;Graphic file mode (SDM)&#34;

              SOURCE &#34;UserVariable&#34;
                filename:attribute:&#34;tempfilename&#34;
                var1:attribute:&#34;Language&#34;

              SOURCE &#34;AdoScript&#34;
                name: &#34;Jade Converter&#34;
                var1:attribute: &#34;tempfilename&#34;
                var2:attribute: &#34;filename&#34;
                var3:attribute: &#34;homedir&#34;
            {
              SETG filename:(filename)
              SETG homedir:(homedir)
              SETG tempfilename:(tempfilename)

              SET nPos:(bsearch (filename , &#34;\\&#34;, -1))

              #when char is found save path and file name into different vars
              IF (nPos &gt; 0)
              {
                SET dest_path:(copy (filename, 0, nPos))
                SET file_name:(copy (filename, nPos, LEN (filename) - 1))
              }
              ELSE
              {
                SET dest_path:(filename)
                SET file_name:(filename)
              }

              CC &#34;AdoScript&#34; FCOPY from:(tempfilename) to:(dest_path + &#34;\\out0.sgm&#34;)
            }


EXPORT &#34;HTML generation&#34;
  smarticon:html
  visible:0
  menuname: &#34;HTML generation...&#34;
  filedescription: &#34;HTML files&#34;
  fileextension: &#34;*.htm&#34;
```

```
  filename:attribute: &#34;filename&#34;
  temp1: &#34;tempfilename&#34;

  SOURCE &#34;Model2SGML&#34;
    filename:attribute: &#34;tempfilename&#34;
    basename:attribute: &#34;filename&#34;
    libraryspecific:attribute: &#34;Apply model type specific settings&#34;
    subprocesses:attribute: &#34;Display subprocesses&#34;
    acfilter:attribute: &#34;Attribute and class filter&#34;
    copydocuments:attribute: &#34;__DOCU_copydocs__&#34;

    LIBRARY
      gfxformat: &#34;png&#34;
      gfxdpi: 75.000000
      notebookattr:attribute: &#34;Attribute mode&#34;
      graphics:1
      gfxorientation:&#34;do not change&#34;
      gfxlayout:&#34;do not split graphic files&#34;
      gfxmode: &#34;Documentation&#34;
      mode:attribute: &#34;Mode&#34;
      gfxdozoom:1
      gfxzoomlevels:attribute:&#34;__DOCU_zoomlevels__&#34;

  SOURCE &#34;ModelGroups&#34;
    filename:attribute:&#34;tempfilename&#34;
    exportall:0

  SOURCE &#34;UserVariable&#34;
    filename:attribute:&#34;tempfilename&#34;
    var1:attribute:&#34;Language&#34;
    var2:attribute:&#34;str_TopModelID&#34;

  SOURCE &#34;AdoScript&#34;
    name: &#34;Jade Converter&#34;
    var1:attribute: &#34;tempfilename&#34;
    var2:attribute: &#34;filename&#34;
    var3:attribute: &#34;homedir&#34;
{
  SETG filename:(filename)
  SETG homedir:(homedir)
  SETG tempfilename:(tempfilename)

  SET nPos:(bsearch (filename , &#34;\\&#34;, -1))

   #when char is found save path and file name into different vars
    IF (nPos &gt; 0)
  {
    SET dest_path:(copy (filename, 0, nPos))
    SET file_name:(copy (filename, nPos, LEN (filename) - 1))
  }
  ELSE
  {
    SET dest_path:(filename)
    SET file_name:(filename)
  }

  CC &#34;AdoScript&#34; FCOPY from:(tempfilename) to:(dest_path + &#34;\\out0.sgm&#34;)
}


                DIALOG
                notebook:&#34;NOTEBOOK
                CHAPTER \&#34;General settings\&#34;
                ATTR \&#34;Apply model type specific settings\&#34; ctrltype:check
                GROUP \&#34;Attribute settings\&#34;
                ATTR \&#34;Language\&#34; ctrltype:dropdown
                ATTR \&#34;Mode\&#34; ctrltype:dropdown
                ATTR \&#34;Attribute mode\&#34; ctrltype:dropdown
                ATTR \&#34;Attribute and class filter\&#34; dialog:acfilter
                ENDGROUP
                GROUP \&#34;Settings for WORD\&#34;
                ATTR \&#34;Create graphics\&#34; ctrltype:check
                ATTR \&#34;Graphic file mode\&#34; ctrltype:dropdown
                ATTR \&#34;Graphic format for WORD\&#34; ctrltype:dropdown
                ATTR \&#34;Page layout\&#34; ctrltype:dropdown
                ATTR \&#34;Orientation\&#34; ctrltype:dropdown
```

ENDGROUP
GROUP \"Settings for HTML\"
ATTR \"Copy referenced documents\" ctrltype:check unchecked-value:\"\" checked-value:\"documents\\\\\\\\\"
ATTR \"Zoom frame\" ctrltype:check unchecked-value:\"no\" checked-value:\"yes\"
ENDGROUP
#ATTR \"Show preferences before the generation\" ctrltype:check unchecked-value:\"no\" checked-value:\"yes\"

CHAPTER \"Strategic dependency model\"
GROUP \"Options for WORD (Strategic dependency models)\"
ATTR \"Mode (SDM)\" ctrltype:dropdown
ATTR \"Attribute mode (SDM)\" ctrltype:dropdown
ATTR \"Create graphics (SDM)\" ctrltype:check
ATTR \"Graphic file mode (SDM)\" ctrltype:dropdown
ATTR \"Graphic format for WORD (SDM)\" ctrltype:dropdown
ATTR \"Page layout (SDM)\" ctrltype:dropdown
ATTR \"Orientation (SDM)\" ctrltype:dropdown
ENDGROUP

"</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Default settings" TYPE="Longstring">GRID snap:on visible:off w:0.50cm h:0.50cm
GRADIENT_PRINTING mode:avg-color</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Predefined queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Predefined evaluation queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Dynamic evaluation modules" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Path navigator" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Versioning format" TYPE="Longstring"></LIBRARYATTRIBUTE>
<CLASS NAME="__ModelTypeMetaData__" ID="ID510209" METACLASS="__BP-construct__"><CLASSATTRIBUTE NAME="BP Model Attributes" TYPE="String"
INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER "Description"
ATTR "Contact person"
ATTR "Keywords" lines:5
ATTR "Description" lines:5
ATTR "Comment" lines:5
#ATTR "Language"
CHAPTER "User attributes"
ATTR "Model type"
ATTR "State"
ATTR "Reviewed on"
ATTR "Reviewed by"
CHAPTER "System attributes"
ATTR "Author" write-protected
ATTR "Creation date" write-protected
ATTR "Last user" write-protected
ATTR "Date last changed" write-protected
ATTR "Number of objects and relations" write-protected
ATTR "Context of version" write-protected
CHAPTER "Change history"
ATTR "Change history" lines:30
CHAPTER "Deutsch"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="WE Model Attributes" TYPE="String" INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER "Description"
ATTR "Contact person"
ATTR "Keywords" lines:5
ATTR "Description" lines:5
ATTR "Comment" lines:5
#ATTR "Language"
CHAPTER "User attributes"
ATTR "Model type"
ATTR "State"
ATTR "Reviewed on"
ATTR "Reviewed by"
CHAPTER "System attributes"
ATTR "Author" write-protected
ATTR "Creation date" write-protected
ATTR "Last user" write-protected
ATTR "Date last changed" write-protected
ATTR "Number of objects and relations" write-protected
ATTR "Context of version" write-protected

```
CHAPTER &#34;Change history&#34;
ATTR &#34;Change history&#34; lines:30
CHAPTER &#34;Deutsch&#34;
ATTR &#34;Bezeichnung&#34;
ATTR &#34;Beschreibung&#34; lines:5
ATTR &#34;Kommentar&#34; lines:5
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Method GraphRep" TYPE="Longstring" INHERITED="NO"><VALUE>GRAPHREP layer:0 sizing:asymmetrical
SHADOW off

IF (_uilang = &#34;en&#34;)
  # english language settings
  SET sText01:(&#34;BPMS method&#34;)
  SET sText02:(&#34;Core elements&#34;)
  SET sText03:(&#34;Process phases&#34;)
  SET sText04:(&#34;Strategic Decision Process&#34;)
  SET sText05:(&#34;Re-Engineering Process&#34;)
  SET sText06:(&#34;Resource Allocation Process&#34;)
  SET sText07:(&#34;Workflow Process&#34;)
  SET sText08:(&#34;Performance Evaluation Process&#34;)
  SET sText09:(&#34;Products&#34;)
  SET sText10:(&#34;Business processes&#34;)
  SET sText11:(&#34;Organization&#34;)
  SET sText12:(&#34;Information technology&#34;)
ELSE
  # default language settings (german)
  SET sText01:(&#34;BPMS-Methode&#34;)
  SET sText02:(&#34;Kernelemente&#34;)
  SET sText03:(&#34;Proze&szlig;phasen&#34;)
  SET sText04:(&#34;Strategischer Entscheidungs- proze&szlig;&#34;)
  SET sText05:(&#34;Gestaltungs- proze&szlig;&#34;)
  SET sText06:(&#34;Umsetzungs- proze&szlig;&#34;)
  SET sText07:(&#34;Ausf&uuml;hrungs- proze&szlig;&#34;)
  SET sText08:(&#34;Bewertungs-und Kontroll- proze&szlig;&#34;)
  SET sText09:(&#34;Produkte&#34;)
  SET sText10:(&#34;Gesch&auml;fts- prozesse&#34;)
  SET sText11:(&#34;Organisation&#34;)
  SET sText12:(&#34;Informations-\ntechnologie&#34;)
ENDIF


# header
FILL color:white
FONT &#34;Arial&#34; h:14pt bold
TEXT (sText01) x:0cm y:-4.4cm w:c h:c


IF ((mtgroup = &#34;BPMS process phases&#34;) OR
   (mtgroup = &#34;Strategic decision process&#34;) OR
   (mtgroup = &#34;Reengineering process&#34;) OR
   (mtgroup = &#34;Resource allocation process&#34;) OR
   (mtgroup = &#34;Workflow process&#34;) OR
   (mtgroup = &#34;Performance evaluation process&#34;))


FILL color:gray
ROUNDRECT x:-3.25cm y:-3.9cm w:3.0cm h:2cm rx:0.3cm ry:0.3cm

FILL color:$e3e3ff

ROUNDRECT x:-0.32cm y:-4.0cm w:3.3cm h:2cm rx:0.3cm ry:0.3cm

RECTANGLE x:-3.25cm y:-3.3cm w:6.55cm h:6cm
PEN color:$e3e3ff
LINE x1:-0.32cm y1:-3.3cm x2:2.98cm y2:-3.3cm

FONT &#34;Arial&#34; h:9pt color:$4f4f4f  # bold
TEXT (sText02) x:-1.7cm y:-3.55cm w:c h:c
FONT &#34;Arial&#34; h:10pt bold
TEXT (sText03) x:1.35cm y:-3.6cm w:c h:c

HOTSPOT &#34;BPMS core elements&#34; x:-3.25cm y:-3.9cm w:3.0cm h:0.7cm
```

```
HOTSPOT &#34;BPMS process phases&#34; x:-0.25cm y:-4.0cm w:3.25cm h:0.8cm
HOTSPOT &#34;BPMS process phases&#34; x:-3.25cm y:-3.3cm w:6.55cm h:6cm

#-----------------------------------------------------------------
 IF (mtgroup = &#34;Strategic decision process&#34;)
  PEN color:$cc0000 w:0.08cm
  FONT color:$cc0000 bold h:7pt
 ELSE
  PEN color:$096ba6 w:0.08cm join:miter
  FONT color:white bold h:7pt
 ENDIF

 SHADOW off
 CLIP_ELLIPSE x:-1.6cm y:-2.5cm rx:1.2cm ry:.6cm
 GRADIENT_RECT x:-2.8cm y:-3.1cm w:2.4cm h:1.2cm style:downdiag color1:$a4dafb color2:$0974b5
 CLIP_OFF

 FILL style:null

 ELLIPSE x:-1.6cm y:-2.5cm rx:1.2cm ry:.6cm
 HOTSPOT &#34;Strategic decision process&#34; x:-2.7cm y:-3.0cm w:2.0cm h:0.9cm
 TEXT (sText04) x:-1.6cm y:-2.5cm h:c:1.5cm w:c:1.55cm line-break:words
#-----------------------------------------------------------------
 IF (mtgroup = &#34;Reengineering process&#34;)
  PEN color:$cc0000 w:0.08cm
  FONT color:$cc0000 bold h:7pt
 ELSE
  PEN color:$096ba6 w:0.08cm join:miter
  FONT color:white bold h:7pt
 ENDIF

 SHADOW off
 CLIP_ELLIPSE x:-1.6cm y:-1.0cm rx:1.2cm ry:.6cm
 GRADIENT_RECT x:-2.8cm y:-1.6cm w:2.4cm h:1.2cm style:downdiag color1:$a4dafb color2:$0974b5
 CLIP_OFF

 FILL style:null

 ELLIPSE x:-1.6cm y:-1.0cm rx:1.2cm ry:.6cm
 HOTSPOT &#34;Reengineering process&#34; x:-2.7cm y:-1.5cm w:2.0cm h:0.9cm
 TEXT (sText05) x:-1.6cm y:-1.0cm h:c:1.5cm w:c:1.55cm line-break:words
#-----------------------------------------------------------------
 IF (mtgroup = &#34;Resource allocation process&#34;)
  PEN color:$cc0000 w:0.08cm
  FONT color:$cc0000 bold h:7pt
 ELSE
  PEN color:$096ba6 w:0.08cm join:miter
  FONT color:white bold h:7pt
 ENDIF

 SHADOW off
 CLIP_ELLIPSE x:-1.6cm y:0.5cm rx:1.2cm ry:.6cm
 GRADIENT_RECT x:-2.8cm y:-0.1cm w:2.4cm h:1.2cm style:downdiag color1:$a4dafb color2:$0974b5
 CLIP_OFF

 FILL style:null

 ELLIPSE x:-1.6cm y:0.5cm rx:1.2cm ry:.6cm
 HOTSPOT &#34;Resource allocation process&#34; x:-2.7cm y:0.0cm w:2.0cm h:0.9cm
 TEXT (sText06) x:-1.6cm y:0.5cm h:c:1.5cm w:c:1.55cm line-break:words
#-----------------------------------------------------------------
 IF (mtgroup = &#34;Workflow process&#34;)
  PEN color:$cc0000 w:0.08cm
  FONT color:$cc0000 bold h:7pt
 ELSE
  PEN color:$096ba6 w:0.08cm join:miter
  FONT color:white bold h:7pt
 ENDIF

 SHADOW off
 CLIP_ELLIPSE x:-1.6cm y:2.0cm rx:1.2cm ry:.6cm
 GRADIENT_RECT x:-2.8cm y:1.4cm w:2.4cm h:1.2cm style:downdiag color1:$a4dafb color2:$0974b5
 CLIP_OFF

 FILL style:null
```

```
  ELLIPSE x:-1.6cm y:2.0cm rx:1.2cm ry:.6cm
  HOTSPOT &#34;Workflow process&#34; x:-2.7cm y:1.5cm w:2.0cm h:0.9cm
  TEXT (sText07) x:-1.6cm y:2.0cm h:c:1.5cm w:c:1.55cm line-break:words
#-------------------------------------------------------------------
  IF (mtgroup = &#34;Performance evaluation process&#34;)
    PEN color:$cc0000 w:0.08cm
    FONT color:$cc0000 bold h:7pt
  ELSE
    PEN color:$096ba6 w:0.08cm join:miter
    FONT color:white bold h:7pt
  ENDIF

  SHADOW off
  CLIP_ELLIPSE x:1.6cm y:.0cm rx:1.2cm ry:.6cm
  GRADIENT_RECT x:0.4cm y:-0.6cm w:2.4cm h:1.2cm style:downdiag color1:$a4dafb color2:$0974b5
  CLIP_OFF

  FILL style:null

  ELLIPSE x:1.6cm y:.0cm rx:1.2cm ry:.6cm
  HOTSPOT &#34;Performance evaluation process&#34; x:0.55cm y:-0.5cm w:2.0cm h:0.9cm
  TEXT (sText08) x:1.6cm y:.0cm h:c:1.5cm w:c:1.7cm line-break:words
#-------------------------------------------------------------------

PEN
FILL color:black
LINE x1:-1.6cm y1:-1.9cm x2:-1.6cm y2:-1.6cm
POLYGON 3 x1:-1.6cm y1:-1.6cm x2:-1.7cm y2:-1.7cm x3:-1.5cm y3:-1.7cm

LINE x1:-1.6cm y1:-0.4cm x2:-1.6cm y2:-0.1cm
POLYGON 3 x1:-1.6cm y1:-0.1cm x2:-1.7cm y2:-0.2cm x3:-1.5cm y3:-0.2cm

LINE x1:-1.6cm y1:1.1cm x2:-1.6cm y2:1.4cm
POLYGON 3 x1:-1.6cm y1:1.4cm x2:-1.7cm y2:1.3cm x3:-1.5cm y3:1.3cm

POLYLINE 3 x1:-0.4cm y1:2.0cm x2:1.63cm y2:2.0cm x3:1.63cm y3:0.62cm
POLYGON 3 x1:1.63cm y1:0.62cm x2:1.53cm y2:0.72cm x3:1.73cm y3:0.72cm

POLYLINE 3 x1:1.63cm y1:-0.64cm x2:1.63cm y2:-2.5cm x3:-0.4cm y3:-2.5cm
POLYGON 3 x1:-0.4cm y1:-2.5cm x2:-0.3cm y2:-2.6cm x3:-0.3cm y3:-2.4cm

LINE x1:-0.4cm y1:-1.0cm x2:1.63cm y2:-1.0cm
POLYGON 3 x1:-0.4cm y1:-1.0cm x2:-0.3cm y2:-1.1cm x3:-0.3cm y3:-0.9cm

ELSE # (mtgroup = &#34;BPMS core elements&#34;)

FILL color:gray
ROUNDRECT x:-0.32cm y:-3.9cm w:3.0cm h:2cm rx:0.3cm ry:0.3cm
FILL color:$e3e3ff

ROUNDRECT x:-3.25cm y:-4cm w:3.0cm h:2cm rx:0.3cm ry:0.3cm

RECTANGLE x:-3.25cm y:-3.3cm w:6.55cm h:6cm
PEN color:$e3e3ff
LINE x1:-3.25cm y1:-3.3cm x2:-0.25cm y2:-3.3cm

FONT &#34;Arial&#34; h:10pt bold
TEXT (sText02) x:-1.7cm y:-3.6cm w:c h:c
FONT &#34;Arial&#34; h:9pt color:$4f4f4f  # bold
TEXT (sText03) x:1.25cm y:-3.55cm w:c h:c

HOTSPOT &#34;BPMS core elements&#34; x:-3.25cm y:-4.0cm w:3.0cm h:0.8cm
HOTSPOT &#34;BPMS process phases&#34; x:-0.25cm y:-3.9cm w:2.9cm h:0.7cm
HOTSPOT &#34;BPMS core elements&#34; x:-3.25cm y:-3.3cm w:6.55cm h:6cm

 #-------------------------------------------------------------------
  IF (mtgroup = &#34;Products&#34;)
    PEN color:$cc0000 w:0.08cm join:miter
    FONT color:$cc0000 bold h:8pt
  ELSE
    PEN w:0.08cm color:$ffae4d join:miter
    FONT color:black bold h:7pt
  ENDIF

  SHADOW off
  CLIP_ELLIPSE x:0cm y:-2.3cm rx:1.2cm ry:.6cm
```

```
    GRADIENT_RECT x:-1.2cm y:-2.9cm w:2.4cm h:1.2cm style:downdiag color1:$ffff66 color2:orange
    CLIP_OFF

    FILL style:null

  ELLIPSE x:0cm y:-2.3cm rx:1.2cm ry:.6cm
  HOTSPOT &#34;Products&#34; x:-1.0cm y:-2.75cm w:2.0cm h:0.9cm
  TEXT (sText09) x:0cm y:-2.3cm h:c:1.5cm w:c:1.55cm line-break:words
#-------------------------------------------------------------------
  IF (mtgroup = &#34;Business processes&#34;)
    PEN color:$cc0000 w:0.08cm join:miter
    FONT color:$cc0000 bold h:8pt
  ELSE
    PEN w:0.08cm color:$0055bb join:miter
    FONT color:white bold h:7pt
  ENDIF

  SHADOW off
  CLIP_ELLIPSE x:-1.8cm y:-0.3cm rx:1.2cm ry:.6cm
  GRADIENT_RECT x:-3.0cm y:-0.9cm w:2.4cm h:1.2cm style:downdiag color1:$3399ff color2:$0055bb
  CLIP_OFF

  FILL style:null

  ELLIPSE x:-1.8cm y:-0.3cm rx:1.2cm ry:.6cm
  HOTSPOT &#34;Business processes&#34; x:-2.85cm y:-0.75cm w:2.0cm h:0.9cm
  TEXT (sText10) x:-1.8cm y:-0.3cm h:c:1.5cm w:c:1.55cm line-break:words
#-------------------------------------------------------------------
  IF (mtgroup = &#34;Organisation&#34;)
    PEN color:$cc0000 w:0.08cm join:miter
    FONT color:$cc0000 bold h:8pt
  ELSE
    PEN w:0.08cm color:$ffff4f join:miter
    FONT color:black bold h:7pt
  ENDIF

  SHADOW off
  CLIP_ELLIPSE x:1.8cm y:-0.3cm rx:1.2cm ry:.6cm
  GRADIENT_RECT x:0.6cm y:-0.9cm w:2.4cm h:1.2cm style:downdiag color1:$ffffac color2:yellow
  CLIP_OFF

  ELLIPSE x:1.8cm y:-0.3cm rx:1.2cm ry:.6cm
  HOTSPOT &#34;Organisation&#34; x:0.75cm y:-0.75cm w:2.0cm h:0.9cm
  TEXT (sText11) x:1.8cm y:-0.3cm h:c:1.5cm w:c:1.55cm line-break:words
#-------------------------------------------------------------------
  IF (mtgroup = &#34;Information technology&#34;)
    PEN color:$cc0000 w:0.08cm join:miter
    FONT color:$cc0000 bold h:8pt
  ELSE
    PEN color:$00b500 w:0.08cm join:miter
    FONT color:white bold h:7pt
  ENDIF

  SHADOW off
  CLIP_ELLIPSE x:0cm y:1.7cm rx:1.2cm ry:.6cm
  GRADIENT_RECT x:-1.2cm y:1.1cm w:2.4cm h:1.2cm style:downdiag color1:$6cff6c color2:$008e00
  CLIP_OFF

  ELLIPSE x:0cm y:1.7cm rx:1.2cm ry:.6cm
  HOTSPOT &#34;Information technology&#34; x:-1.0cm y:1.25cm w:2.0cm h:0.9cm
  TEXT (sText12) x:0cm y:1.7cm h:c:1.5cm w:c:1.55cm line-break:words
#-------------------------------------------------------------------

  PEN w:0.02cm
  LINE x1:-0.55cm y1:-1.75cm x2:-1.4cm y2:-0.9cm
  LINE x1:0.55cm y1:-1.75cm x2:1.4cm y2:-0.9cm
  LINE x1:1.4cm y1:0.3cm x2:0.55cm y2:1.15cm
  LINE x1:-1.4cm y1:0.3cm x2:-0.55cm y2:1.15cm
  LINE x1:0.0cm y1:-1.7cm x2:0.0cm y2:1.10cm
  LINE x1:-0.6cm y1:-0.3cm x2:0.6cm y2:-0.3cm

  FILL color:blue
  POLYGON 3 x1:-0.55cm y1:-1.75cm x2:-0.76cm y2:-1.65cm x3:-0.63cm y3:-1.57cm
  POLYGON 3 x1:0.55cm y1:-1.75cm x2:0.76cm y2:-1.65cm x3:0.63cm y3:-1.57cm

  POLYGON 3 x1:0.0cm y1:-1.7cm x2:-0.1cm y2:-1.5cm x3:0.1cm y3:-1.5cm
```

```
  POLYGON 3 x1:0.0cm y1:1.1cm x2:-0.1cm y2:0.9cm x3:0.1cm y3:0.9cm

  POLYGON 3 x1:-1.4cm y1:-0.9cm x2:-1.3cm y2:-1.07cm x3:-1.2cm y3:-1.0cm
  POLYGON 3 x1:1.4cm y1:-0.9cm x2:1.3cm y2:-1.07cm x3:1.2cm y3:-1.0cm
  POLYGON 3 x1:1.4cm y1:0.3cm x2:1.2cm y2:0.37cm x3:1.33cm y3:0.47cm
  POLYGON 3 x1:-1.4cm y1:0.3cm x2:-1.2cm y2:0.37cm x3:-1.33cm y3:0.47cm
  POLYGON 3 x1:-0.55cm y1:1.15cm x2:-0.75cm y2:1.07cm x3:-0.62cm y3:0.95cm
  POLYGON 3 x1:0.55cm y1:1.15cm x2:0.75cm y2:1.07cm x3:0.62cm y3:0.95cm

  POLYGON 3 x1:-0.6cm y1:-0.3cm x2:-0.45cm y2:-0.38cm x3:-0.45cm y3:-0.22cm
  POLYGON 3 x1:0.6cm y1:-0.3cm x2:0.45cm y2:-0.38cm x3:0.45cm y3:-0.22cm
ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="BP Model Graphrep" TYPE="Longstring" INHERITED="NO"><VALUE>GRAPHREP layer:-1
AVAL sp:&#34;Language&#34;
IF (sp = &#34;System&#34;)
  IF (_uilang = &#34;en&#34;)
    SET sp:&#34;English&#34;
  ELSE
    SET sp:&#34;German&#34;
  ENDIF
ENDIF

AVAL showModelInfo:&#34;Display modelling information&#34;
IF (showModelInfo = &#34;1&#34;)
  FILL color:white
  RECTANGLE w:0.28cm h:0.28cm
  FONT h:16pt
  TEXT &#34;-&#34; x:0.05cm y:-0.23cm
  IF (_uilang = &#34;en&#34;)
    HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Hide model information&#34; x:0.0cm y:0.0cm w:0.28cm w:0.28cm h:0.28cm
  ELSE # (_uilang = &#34;en&#34;)
    HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Modellinformationen ausblenden&#34; x:0.0cm y:0.0cm w:0.28cm h:0.28cm
  ENDIF

  FONT
  SET cm_h_all:0.7cm
  SET cm_h_attribute:0.45cm
  SET cm_w_space:0.4cm
  SET cm_h_space:0.1cm
  SET cm_w_state:0.7cm

  IF (sp = &#34;English&#34;)
    ATTRBOX &#34;Name&#34;
  ELSE
    ATTRBOX &#34;Bezeichnung&#34;
  ENDIF
  SET cm_w_modInfo:(textw + cm_w_space)
  ATTRBOX &#34;Last user&#34;
  SET cm_w_lastUser:(textw + cm_w_space)
  ATTRBOX &#34;Date last changed&#34;
  SET cm_w_lastChange:(textw + cm_w_space)
  SET cm_w_total:(cm_w_space + cm_w_state + cm_w_space + cm_w_modInfo + (cm_w_space / 2) + cm_w_lastUser + (cm_w_space / 2) + cm_w_lastChange + cm_w_space)

  SET cm_x_start:0.35cm

  # start - smooth shaded colors
  CLIP_ROUNDRECT x:(cm_x_start) y:0.0cm w:(cm_w_total + 0.03cm) h:(cm_h_all) rx:0.07cm ry:0.07cm
  GRADIENT_RECT x:(cm_x_start) y:0.0cm w:(cm_w_total) h:(cm_h_all) style:downdiag
              color1:$efefef color2:$bdbdbd
  #PEN w:0.05cm
  FILL style:null
  CLIP_OFF
  # end - smooth shaded colors

  ROUNDRECT x:(cm_x_start) y:0.0cm w:(cm_w_total) h:(cm_h_all) rx:0.07cm ry:0.07cm

  FONT h:10pt
  AVAL sStatus:&#34;State&#34;

  SET cm_x_start:(cm_x_start + cm_w_space)

  FILL color:white
```

```
 ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm

  IF (sStatus = &#34;Reviewed&#34;)
   FONT &#34;Wingdings&#34; h:18pt color:green
   TEXT &#34;C&#34; x:(cm_x_start + 0.1cm) y:0.04cm
   PEN color:green
   FILL style:null
   ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ELSIF (sStatus = &#34;Ready&#34;)
   FONT &#34;Wingdings&#34; h:15pt color:$fbc902
   TEXT &#34;&thorn;&#34; x:(cm_x_start + 0.1cm) y:0.08cm
   PEN color:$fbc902
   FILL style:null
   ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ELSE
   FONT &#34;Wingdings&#34; h:15pt color:red
   TEXT &#34;!&#34; x:(cm_x_start + 0.05cm) y:(cm_h_space - 0.03cm)
   PEN color:red
   FILL style:null
   ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ENDIF

 PEN
 FONT

 SET cm_x_start:(cm_x_start + 0.7cm + cm_w_space)

 FILL color:white
 ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_modInfo) h:(cm_h_attribute) rx:0.1cm ry:0.1cm

 IF (sp = &#34;English&#34;)
  ATTR &#34;Name&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c
 ELSE
  ATTR &#34;Bezeichnung&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c
 ENDIF

 SET cm_x_start:(cm_x_start + cm_w_modInfo + (cm_w_space / 2))

 FILL color:white
 ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_lastUser) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
 ATTR &#34;Last user&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c

 SET cm_x_start:(cm_x_start + cm_w_lastUser + (cm_w_space / 2))

 FILL color:white
 ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_lastChange) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
 ATTR &#34;Date last changed&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c

ELSE
 FILL color:white
 RECTANGLE w:0.28cm h:0.28cm
 FONT h:12pt
 TEXT &#34;+&#34; x:0.02cm y:-0.1cm
 IF (_uilang = &#34;en&#34;)
  HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Display modelling information&#34; x:0.0cm y:0.0cm w:0.28cm w:0.28cm h:0.28cm
 ELSE # (_uilang = &#34;en&#34;)
  HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Modellinformationen anzeigen&#34; x:0.0cm y:0.0cm w:0.28cm h:0.28cm
 ENDIF

ENDIF

</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="BPM Model Attributes" TYPE="Longstring" INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER &#34;Reference overview&#34;
ATTR &#34;Reference overview active&#34; ctrltype:check write-protected

GROUP &#34;Actual configuration&#34;
ATTR &#34;Products&#34; ctrltype:check write-protected
ATTR &#34;RACI/DEMI visibility&#34; ctrltype:check write-protected
ATTR &#34;Responsible role&#34; ctrltype:check write-protected
ATTR &#34;Input/Output&#34; ctrltype:check write-protected
ATTR &#34;Use cases&#34; ctrltype:check write-protected
```

```
ATTR &#34;IT systems&#34; ctrltype:check write-protected
ATTR &#34;Modelling direction&#34; write-protected
ENDGROUP

GROUP &#34;Color settings for reference overviews&#34;
ATTR &#34;Products color&#34; dialog:color
ATTR &#34;RACI/DEMI color&#34; dialog:color
ATTR &#34;Responsible role color&#34; dialog:color
ATTR &#34;Input/Output color&#34; dialog:color
ATTR &#34;Use cases color&#34; dialog:color
ATTR &#34;IT systems color&#34; dialog:color
ENDGROUP

CHAPTER &#34;Description&#34;
ATTR &#34;Contact person&#34;
ATTR &#34;Keywords&#34; lines:5
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
#ATTR &#34;Language&#34;

CHAPTER &#34;User attributes&#34;
ATTR &#34;Model type&#34;
ATTR &#34;State&#34;
ATTR &#34;Reviewed by&#34;
ATTR &#34;Reviewed on&#34;

CHAPTER &#34;System attributes&#34;
ATTR &#34;Author&#34; write-protected
ATTR &#34;Creation date&#34; write-protected
ATTR &#34;Last user&#34; write-protected
# ATTR &#34;Date last changed from&#34; write-protected
ATTR &#34;Date last changed&#34; write-protected
ATTR &#34;Number of objects and relations&#34; write-protected
ATTR &#34;Context of version&#34; write-protected

CHAPTER &#34;Change history&#34;
ATTR &#34;Change history&#34; lines:30

CHAPTER &#34;Deutsch&#34;
ATTR &#34;Bezeichnung&#34;
ATTR &#34;Beschreibung&#34; lines:5
ATTR &#34;Kommentar&#34; lines:5</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="BPM Model Graphrep" TYPE="Longstring" INHERITED="NO"><VALUE>GRAPHREP layer:-1
AVAL set-default:&#34;0&#34; show_navigation:&#34;Reference overview active&#34;
AVAL showModelInfo:&#34;Display modelling information&#34;
AVAL sp:&#34;Language&#34;
IF (sp = &#34;System&#34;)
  IF (_uilang = &#34;en&#34;)
    SET sp:&#34;English&#34;
  ELSE
    SET sp:&#34;German&#34;
  ENDIF
ENDIF

IF (show_navigation = &#34;1&#34;)

  AVAL set-default:&#34;&#34; sp:&#34;Language&#34;
  AVAL set-default:&#34;horizontal&#34; modDirection:&#34;Modelling direction&#34;

  AVAL set-default:&#34;0&#34; show_products:&#34;Products&#34;
  AVAL set-default:&#34;0&#34; show_demiraci:&#34;RACI/DEMI visibility&#34;
  AVAL set-default:&#34;0&#34; show_respRole:&#34;Responsible role&#34;
  AVAL set-default:&#34;0&#34; show_inout:   &#34;Input/Output&#34;
  AVAL set-default:&#34;0&#34; show_usecase: &#34;Use cases&#34;
  AVAL set-default:&#34;0&#34; show_itsystem:&#34;IT systems&#34;

  SET name:&#34;Reference overview&#34;
  SET name_german:&#34;Referenzen&uuml;bersicht&#34;

  SHADOW off
  PEN w:0.05cm
  FILL color:whitesmoke
```

```
FONT h:12pt

SET cmX:0.0cm
SET cmY:0.0cm
SET cmLaneSize:1.3cm
SET cmLaneSize2:2.0cm

SET cmX:0.0cm
SET cmY:0.5cm

IF (modDirection = &#34;vertical&#34;)

 IF (show_products = &#34;1&#34;)
  AVAL fill:&#34;Products color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:orange
  ROUNDRECT x:(cmX + 0.45cm) y:0.6cm w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
  FILL color:white
  RECTANGLE x:(cmX + 0.45cm) y:0.7cm w:0.4cm h:0.2cm

  TEXT &#34;P&#34; x:(cmX + 0.45cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize)
 ENDIF

 IF (show_demiraci = &#34;1&#34;)
  AVAL fill:&#34;RACI/DEMI color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
   TEXT &#34;D&#34; x:(cmX + 0.50cm) y:1.0cm
  ELSE
   TEXT &#34;R&#34; x:(cmX + 0.50cm) y:1.0cm
  ENDIF
  SET cmX:(cmX + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
   TEXT &#34;E&#34; x:(cmX + 0.50cm) y:1.0cm
  ELSE
   TEXT &#34;A&#34; x:(cmX + 0.50cm) y:1.0cm
  ENDIF
  SET cmX:(cmX + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
   TEXT &#34;M&#34; x:(cmX + 0.50cm) y:1.0cm
  ELSE
   TEXT &#34;C&#34; x:(cmX + 0.50cm) y:1.0cm
```

```
  ENDIF
  SET cmX:(cmX + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  TEXT &#34;I&#34; x:(cmX + 0.55cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize)
 ENDIF

 IF (show_respRole = &#34;1&#34;)
  AVAL fill:&#34;Responsible role color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)
  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white
  IF (sp = &#34;German&#34;)
   TEXT &#34;V&#34; x:(cmX + 0.40cm) y:1.0cm
  ELSE
   TEXT &#34;RR&#34; x:(cmX + 0.50cm) y:1.0cm
  ENDIF
  SET cmX:(cmX + cmLaneSize)
 ENDIF

 IF (show_inout = &#34;1&#34;)
  AVAL fill:&#34;Input/Output color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize2) h:(h - cmY)

  POLYGON 4 x1:(cmX + 0.75cm) y1:0.6cm x2:(cmX + 1.15cm) y2:0.6cm x3:(cmX + 1.15cm) y3:0.85cm x4:(cmX + 0.75cm) y4:1.0cm

  TEXT &#34;In&#34; x:(cmX + 0.75cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize2)

  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize2) h:(h - cmY)

  POLYGON 4 x1:(cmX + 0.75cm) y1:0.6cm x2:(cmX + 1.15cm) y2:0.6cm x3:(cmX + 1.15cm) y3:0.85cm x4:(cmX + 0.75cm) y4:1.0cm

  TEXT &#34;Out&#34; x:(cmX + 0.65cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize2)
 ENDIF

 IF (show_usecase = &#34;1&#34;)
  AVAL fill:&#34;Use cases color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)
  FILL color:lightgray
  ELLIPSE x:(cmX + 0.65cm) y:0.75cm rx:.2cm ry:.15cm
  TEXT &#34;UC&#34; x:(cmX + 0.40cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize)
 ENDIF

 IF (show_itsystem = &#34;1&#34;)
  AVAL fill:&#34;IT systems color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:green
  ROUNDRECT x:(cmX + 0.45cm) y:0.6cm w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
  FILL color:white
  RECTANGLE x:(cmX + 0.45cm) y:0.7cm w:0.4cm h:0.2cm

  TEXT &#34;IT&#34; x:(cmX + 0.45cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize)
 ENDIF
```

```
  # write header
  IF (cmX &gt; 0.0cm)
    FILL color:white

    IF (cmX &lt; 4.0cm)
      RECTANGLE x:0.0cm y:0.0cm w:4.0cm h:(.5cm)
    ELSE
      RECTANGLE x:0.0cm y:0.0cm w:(cmX) h:(.5cm)
    ENDIF

    IF (sp = &#34;German&#34;)
      TEXT (name_german) x:0.1cm y:.0cm
    ELSE
      TEXT (name) x:0.1cm y:.0cm
    ENDIF
  ENDIF

ELSIF (modDirection = &#34;horizontal&#34;)

  IF (show_products = &#34;1&#34;)
    AVAL fill:&#34;Products color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:orange
    ROUNDRECT x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.3cm) w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
    FILL color:white
    RECTANGLE x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.2cm) w:0.4cm h:0.2cm

    TEXT &#34;P&#34; x:0.6cm y:(cmY + (cmLaneSize / 2) - 0.1cm) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  IF (show_demiraci = &#34;1&#34;)
    AVAL fill:&#34;RACI/DEMI color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:lightskyblue
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
    FONT &#34;Arial&#34; h:7pt color:black
    TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
    FONT h:12pt
    FILL color:white

    IF (sp = &#34;German&#34;)
      TEXT &#34;D&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ELSE
      TEXT &#34;R&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ENDIF
    SET cmY:(cmY + cmLaneSize)

    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:lightskyblue
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
    FONT &#34;Arial&#34; h:7pt color:black
    TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
    FONT h:12pt
    FILL color:white

    IF (sp = &#34;German&#34;)
      TEXT &#34;E&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ELSE
      TEXT &#34;A&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ENDIF
    SET cmY:(cmY + cmLaneSize)

    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:lightskyblue
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
    FONT &#34;Arial&#34; h:7pt color:black
```

```
    TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
    FONT h:12pt
    FILL color:white

    IF (sp = &#34;German&#34;)
      TEXT &#34;M&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ELSE
      TEXT &#34;C&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ENDIF
    SET cmY:(cmY + cmLaneSize)

    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:lightskyblue
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
    FONT &#34;Arial&#34; h:7pt color:black
    TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
    FONT h:12pt
    FILL color:white

    TEXT &#34;I&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  IF (show_respRole = &#34;1&#34;)
    AVAL fill:&#34;Responsible role color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)
    FILL color:lightskyblue
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
    FONT &#34;Arial&#34; h:7pt color:black
    TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
    FONT h:12pt
    FILL color:white

    IF (sp = &#34;German&#34;)
      TEXT &#34;V&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ELSE
      TEXT &#34;RR&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    ENDIF
    SET cmY:(cmY + cmLaneSize)

  ENDIF

  IF (show_inout = &#34;1&#34;)
    AVAL fill:&#34;Input/Output color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize2)

    POLYGON 4 x1:0.1cm y1:(cmY + (cmLaneSize2 / 2) - 0.2cm) x2:0.5cm y2:(cmY + (cmLaneSize2 / 2) - 0.2cm) x3:0.5cm y3:(cmY + (cmLaneSize2 / 2) + 0.05cm) x4:0.1cm y4:(cmY +
(cmLaneSize2 / 2) + 0.2cm)

    TEXT &#34;In&#34; x:0.6cm y:(cmY + (cmLaneSize2 / 2)) h:c
    SET cmY:(cmY + cmLaneSize2)

    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize2)

    POLYGON 4 x1:0.1cm y1:(cmY + (cmLaneSize2 / 2) - 0.2cm) x2:0.5cm y2:(cmY + (cmLaneSize2 / 2) - 0.2cm) x3:0.5cm y3:(cmY + (cmLaneSize2 / 2) + 0.05cm) x4:0.1cm y4:(cmY +
(cmLaneSize2 / 2) + 0.2cm)

    TEXT &#34;Out&#34; x:0.6cm y:(cmY + (cmLaneSize2 / 2)) h:c
    SET cmY:(cmY + cmLaneSize2)
  ENDIF

  IF (show_usecase = &#34;1&#34;)
    AVAL fill:&#34;Use cases color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)
    FILL color:lightgray
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.15cm
    TEXT &#34;UC&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  IF (show_itsystem = &#34;1&#34;)
```

```
    AVAL fill:&#34;IT systems color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:green
    ROUNDRECT x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.3cm) w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
    FILL color:white
    RECTANGLE x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.2cm) w:0.4cm h:0.2cm

    TEXT &#34;IT&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  # write header
  IF (cmY &gt; 0.5cm)
    FILL color:white
    RECTANGLE x:0.0cm y:0.0cm w:(w) h:(.5cm)

    IF (sp = &#34;German&#34;)
      TEXT (name_german) x:0.1cm y:.0cm
    ELSE
      TEXT (name) x:0.1cm y:.0cm
    ENDIF
  ENDIF

 ENDIF

ELSE

 IF (showModelInfo = &#34;1&#34;)
  FILL color:white
  RECTANGLE w:0.28cm h:0.28cm
  FONT h:16pt
  TEXT &#34;-&#34; x:0.05cm y:-0.23cm
  IF (_uilang = &#34;en&#34;)
    HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Hide model information&#34; x:0.0cm y:0.0cm w:0.28cm w:0.28cm h:0.28cm
  ELSE # (_uilang = &#34;en&#34;)
    HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Modellinformationen ausblenden&#34; x:0.0cm y:0.0cm w:0.28cm h:0.28cm
  ENDIF

  FONT
  SET cm_h_all:0.7cm
  SET cm_h_attribute:0.45cm
  SET cm_w_space:0.4cm
  SET cm_h_space:0.1cm
  SET cm_w_state:0.7cm

  IF (sp = &#34;English&#34;)
    ATTRBOX &#34;Name&#34;
  ELSE
    ATTRBOX &#34;Bezeichnung&#34;
  ENDIF

  SET cm_w_modInfo:(textw + cm_w_space)
  ATTRBOX &#34;Last user&#34;
  SET cm_w_lastUser:(textw + cm_w_space)
  ATTRBOX &#34;Date last changed&#34;
  SET cm_w_lastChange:(textw + cm_w_space)
  SET cm_w_total:(cm_w_space + cm_w_state + cm_w_space + cm_w_modInfo + (cm_w_space / 2) + cm_w_lastUser + (cm_w_space / 2) + cm_w_lastChange + cm_w_space)

  SET cm_x_start:0.35cm

  # start - smooth shaded colors
  CLIP_ROUNDRECT x:(cm_x_start) y:0.0cm w:(cm_w_total + 0.03cm) h:(cm_h_all) rx:0.07cm ry:0.07cm
  GRADIENT_RECT x:(cm_x_start) y:0.0cm w:(cm_w_total) h:(cm_h_all) style:downdiag
            color1:$efefef color2:$bdbdbd
  #PEN w:0.05cm
  FILL style:null
  CLIP_OFF
  # end - smooth shaded colors

  ROUNDRECT x:(cm_x_start) y:0.0cm w:(cm_w_total) h:(cm_h_all) rx:0.07cm ry:0.07cm

  FONT h:10pt
  AVAL sStatus:&#34;State&#34;
```

```
  SET cm_x_start:(cm_x_start + cm_w_space)

  FILL color:white
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm

  IF (sStatus = &#34;Reviewed&#34;)
    FONT &#34;Wingdings&#34; h:18pt color:green
    TEXT &#34;C&#34; x:(cm_x_start + 0.1cm) y:0.04cm
    PEN color:green
    FILL style:null
    ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ELSIF (sStatus = &#34;Ready&#34;)
    FONT &#34;Wingdings&#34; h:15pt color:$fbc902
    TEXT &#34;&thorn;&#34; x:(cm_x_start + 0.1cm) y:0.08cm
    PEN color:$fbc902
    FILL style:null
    ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ELSE
    FONT &#34;Wingdings&#34; h:15pt color:red
    TEXT &#34;!&#34; x:(cm_x_start + 0.05cm) y:(cm_h_space - 0.03cm)
    PEN color:red
    FILL style:null
    ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ENDIF
  PEN
  FONT

  SET cm_x_start:(cm_x_start + 0.7cm + cm_w_space)

  FILL color:white
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_modInfo) h:(cm_h_attribute) rx:0.1cm ry:0.1cm

  IF (sp = &#34;English&#34;)
    ATTR &#34;Name&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c
  ELSE
    ATTR &#34;Bezeichnung&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c
  ENDIF

  SET cm_x_start:(cm_x_start + cm_w_modInfo + (cm_w_space / 2))

  FILL color:white
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_lastUser) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ATTR &#34;Last user&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c

  SET cm_x_start:(cm_x_start + cm_w_lastUser + (cm_w_space / 2))

  FILL color:white
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_lastChange) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  ATTR &#34;Date last changed&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c


 ELSE
  FILL color:white
  RECTANGLE w:0.28cm h:0.28cm
  FONT h:12pt
  TEXT &#34;+&#34; x:0.02cm y:-0.1cm
  IF (_uilang = &#34;en&#34;)
    HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Show model information&#34; x:0.0cm y:0.0cm w:0.28cm w:0.28cm h:0.28cm
  ELSE # (_uilang = &#34;en&#34;)
    HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Modellinformationen anzeigen&#34; x:0.0cm y:0.0cm w:0.28cm h:0.28cm
  ENDIF

 ENDIF

ENDIF
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassName" TYPE="String" INHERITED="YES"><VALUE>__ModelTypeMetaData__</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassAbstract" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
```

```
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP layer:-1

AVAL set-default:&#34;0&#34; show_navigation:&#34;Reference overview active&#34;

IF (show_navigation = &#34;1&#34;)

 AVAL set-default:&#34;&#34; sp:&#34;Language&#34;
 AVAL set-default:&#34;horizontal&#34; modDirection:&#34;Modelling direction&#34;

 AVAL set-default:&#34;0&#34; show_products:&#34;Products&#34;
 AVAL set-default:&#34;0&#34; show_demiraci:&#34;RACI/DEMI visibility&#34;
 AVAL set-default:&#34;0&#34; show_respRole:&#34;Responsible role&#34;
 AVAL set-default:&#34;0&#34; show_inout:   &#34;Input/Output&#34;
 AVAL set-default:&#34;0&#34; show_usecase: &#34;Use cases&#34;
 AVAL set-default:&#34;0&#34; show_itsystem:&#34;IT systems&#34;

 SET name:&#34;Reference overview&#34;
 SET name_german:&#34;Referenzen&uuml;bersicht&#34;

 SHADOW off
 PEN w:0.05cm
 FILL color:whitesmoke
 FONT h:12pt

 SET cmX:0.0cm
 SET cmY:0.0cm
 SET cmLaneSize:1.3cm
 SET cmLaneSize2:2.0cm

 IF (modDirection = &#34;vertical&#34;)

  SET cmX:0.0cm
  SET cmY:0.5cm

  IF (show_products = &#34;1&#34;)
   AVAL fill:&#34;Products color&#34;
   FILL color:(rgbval (fill))
   RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

   FILL color:orange
   ROUNDRECT x:(cmX + 0.45cm) y:0.6cm w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
   FILL color:white
   RECTANGLE x:(cmX + 0.45cm) y:0.7cm w:0.4cm h:0.2cm

   TEXT &#34;P&#34; x:(cmX + 0.45cm) y:1.0cm
   SET cmX:(cmX + cmLaneSize)
  ENDIF

  IF (show_demiraci = &#34;1&#34;)
   AVAL fill:&#34;RACI/DEMI color&#34;
   FILL color:(rgbval (fill))
   RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

   FILL color:lightskyblue
   ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
   FONT &#34;Arial&#34; h:7pt color:black
   TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
   FONT h:12pt
   FILL color:white

   IF (sp = &#34;German&#34;)
    TEXT &#34;D&#34; x:(cmX + 0.50cm) y:1.0cm
   ELSE
    TEXT &#34;R&#34; x:(cmX + 0.50cm) y:1.0cm
   ENDIF
```

```
  SET cmX:(cmX + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
    TEXT &#34;E&#34; x:(cmX + 0.50cm) y:1.0cm
  ELSE
    TEXT &#34;A&#34; x:(cmX + 0.50cm) y:1.0cm
  ENDIF
  SET cmX:(cmX + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
    TEXT &#34;M&#34; x:(cmX + 0.50cm) y:1.0cm
  ELSE
    TEXT &#34;C&#34; x:(cmX + 0.50cm) y:1.0cm
  ENDIF
  SET cmX:(cmX + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white

  TEXT &#34;I&#34; x:(cmX + 0.55cm) y:1.0cm
  SET cmX:(cmX + cmLaneSize)
ENDIF

IF (show_respRole = &#34;1&#34;)
  AVAL fill:&#34;Responsible role color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)
  FILL color:lightskyblue
  ELLIPSE x:(cmX + 0.65cm) y:0.8cm rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:(cmX + 0.65cm) y:0.8cm w:c h:c
  FONT h:12pt
  FILL color:white
  IF (sp = &#34;German&#34;)
    TEXT &#34;V&#34; x:(cmX + 0.40cm) y:1.0cm
  ELSE
    TEXT &#34;RR&#34; x:(cmX + 0.50cm) y:1.0cm
  ENDIF
  SET cmX:(cmX + cmLaneSize)
ENDIF

IF (show_inout = &#34;1&#34;)
  AVAL fill:&#34;Input/Output color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize2) h:(h - cmY)

  POLYGON 4 x1:(cmX + 0.75cm) y1:0.6cm x2:(cmX + 1.15cm) y2:0.6cm x3:(cmX + 1.15cm) y3:0.85cm x4:(cmX + 0.75cm) y4:1.0cm

  TEXT &#34;In&#34; x:(cmX + 0.75cm) y:1.0cm
```

```
    SET cmX:(cmX + cmLaneSize2)

    RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize2) h:(h - cmY)

    POLYGON 4 x1:(cmX + 0.75cm) y1:0.6cm x2:(cmX + 1.15cm) y2:0.6cm x3:(cmX + 1.15cm) y3:0.85cm x4:(cmX + 0.75cm) y4:1.0cm

    TEXT &#34;Out&#34; x:(cmX + 0.65cm) y:1.0cm
    SET cmX:(cmX + cmLaneSize2)
  ENDIF

  IF (show_usecase = &#34;1&#34;)
    AVAL fill:&#34;Use cases color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)
    FILL color:lightgray
    ELLIPSE x:(cmX + 0.65cm) y:0.75cm rx:.2cm ry:.15cm
    TEXT &#34;UC&#34; x:(cmX + 0.40cm) y:1.0cm
    SET cmX:(cmX + cmLaneSize)
  ENDIF

  IF (show_itsystem = &#34;1&#34;)
    AVAL fill:&#34;IT systems color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(cmLaneSize) h:(h - cmY)

    FILL color:green
    ROUNDRECT x:(cmX + 0.45cm) y:0.6cm w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
    FILL color:white
    RECTANGLE x:(cmX + 0.45cm) y:0.7cm w:0.4cm h:0.2cm

    TEXT &#34;IT&#34; x:(cmX + 0.45cm) y:1.0cm
    SET cmX:(cmX + cmLaneSize)
  ENDIF

  # write header
  IF (cmX &gt; 0.0cm)
    FILL color:white

    IF (cmX &lt; 4.0cm)
      RECTANGLE x:0.0cm y:0.0cm w:4.0cm h:(.5cm)
    ELSE
      RECTANGLE x:0.0cm y:0.0cm w:(cmX) h:(.5cm)
    ENDIF

    IF (sp = &#34;German&#34;)
      TEXT (name_german) x:0.1cm y:.0cm
    ELSE
      TEXT (name) x:0.1cm y:.0cm
    ENDIF
  ENDIF

ELSIF (modDirection = &#34;horizontal&#34;)

  SET cmX:0.0cm
  SET cmY:0.5cm

  IF (show_products = &#34;1&#34;)
    AVAL fill:&#34;Products color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:orange
    ROUNDRECT x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.3cm) w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
    FILL color:white
    RECTANGLE x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.2cm) w:0.4cm h:0.2cm

    TEXT &#34;P&#34; x:0.6cm y:(cmY + (cmLaneSize / 2) - 0.1cm) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  IF (show_demiraci = &#34;1&#34;)
    AVAL fill:&#34;RACI/DEMI color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:lightskyblue
```

```
  ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
    TEXT &#34;D&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ELSE
    TEXT &#34;R&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ENDIF
  SET cmY:(cmY + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

  FILL color:lightskyblue
  ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
    TEXT &#34;E&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ELSE
    TEXT &#34;A&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ENDIF
  SET cmY:(cmY + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

  FILL color:lightskyblue
  ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
    TEXT &#34;M&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ELSE
    TEXT &#34;C&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ENDIF
  SET cmY:(cmY + cmLaneSize)

  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

  FILL color:lightskyblue
  ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
  FONT h:12pt
  FILL color:white

  TEXT &#34;I&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  SET cmY:(cmY + cmLaneSize)
 ENDIF

 IF (show_respRole = &#34;1&#34;)
  AVAL fill:&#34;Responsible role color&#34;
  FILL color:(rgbval (fill))
  RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)
  FILL color:lightskyblue
  ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.2cm
  FONT &#34;Arial&#34; h:7pt color:black
  TEXT &#34;R&#34; x:0.22cm y:(cmY + (cmLaneSize / 2)) h:c
  FONT h:12pt
  FILL color:white

  IF (sp = &#34;German&#34;)
    TEXT &#34;V&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
  ELSE
    TEXT &#34;RR&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
```

```
    ENDIF
    SET cmY:(cmY + cmLaneSize)

  ENDIF

  IF (show_inout = &#34;1&#34;)
    AVAL fill:&#34;Input/Output color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize2)

    POLYGON 4 x1:0.1cm y1:(cmY + (cmLaneSize2 / 2) - 0.2cm) x2:0.5cm y2:(cmY + (cmLaneSize2 / 2) - 0.2cm) x3:0.5cm y3:(cmY + (cmLaneSize2 / 2) + 0.05cm) x4:0.1cm y4:(cmY +
(cmLaneSize2 / 2) + 0.2cm)

    TEXT &#34;In&#34; x:0.6cm y:(cmY + (cmLaneSize2 / 2)) h:c
    SET cmY:(cmY + cmLaneSize2)

    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize2)

    POLYGON 4 x1:0.1cm y1:(cmY + (cmLaneSize2 / 2) - 0.2cm) x2:0.5cm y2:(cmY + (cmLaneSize2 / 2) - 0.2cm) x3:0.5cm y3:(cmY + (cmLaneSize2 / 2) + 0.05cm) x4:0.1cm y4:(cmY +
(cmLaneSize2 / 2) + 0.2cm)

    TEXT &#34;Out&#34; x:0.6cm y:(cmY + (cmLaneSize2 / 2)) h:c
    SET cmY:(cmY + cmLaneSize2)
  ENDIF

  IF (show_usecase = &#34;1&#34;)
    AVAL fill:&#34;Use cases color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)
    FILL color:lightgray
    ELLIPSE x:0.3cm y:(cmY + (cmLaneSize / 2)) rx:.2cm ry:.15cm
    TEXT &#34;UC&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  IF (show_itsystem = &#34;1&#34;)
    AVAL fill:&#34;IT systems color&#34;
    FILL color:(rgbval (fill))
    RECTANGLE x:(cmX) y:(cmY) w:(w) h:(cmLaneSize)

    FILL color:green
    ROUNDRECT x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.3cm) w:0.4cm h:0.4cm rx:0.1cm ry:0.1cm
    FILL color:white
    RECTANGLE x:0.1cm y:(cmY + (cmLaneSize / 2) - 0.2cm) w:0.4cm h:0.2cm

    TEXT &#34;IT&#34; x:0.6cm y:(cmY + (cmLaneSize / 2)) h:c
    SET cmY:(cmY + cmLaneSize)
  ENDIF

  # write header
  IF (cmY &gt; 0.5cm)
    FILL color:white
    RECTANGLE x:0.0cm y:0.0cm w:(w) h:(.5cm)

    IF (sp = &#34;German&#34;)
      TEXT (name_german) x:0.1cm y:.0cm
    ELSE
      TEXT (name) x:0.1cm y:.0cm
    ENDIF
  ENDIF

 ENDIF

ELSE


 AVAL showModelInfo:&#34;Display modelling information&#34;
 IF 1 # (showModelInfo = &#34;1&#34;)
   FILL color:white
   RECTANGLE w:0.28cm h:0.28cm
   FONT h:16pt
   TEXT &#34;-&#34; x:0.05cm y:-0.23cm
   IF (_uilang = &#34;en&#34;)
     HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Hide model information&#34; x:0.0cm y:0.0cm w:0.28cm w:0.28cm h:0.28cm
   ELSE # (_uilang = &#34;en&#34;)
     HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Modellinformationen ausblenden&#34; x:0.0cm y:0.0cm w:0.28cm h:0.28cm
```

```
ENDIF

FONT
SET cm_h_all:0.7cm
SET cm_h_attribute:0.45cm
SET cm_w_space:0.4cm
SET cm_h_space:0.1cm
SET cm_w_state:0.7cm

ATTRBOX &#34;Name&#34;
SET cm_w_modInfo:(textw + cm_w_space)
SET cm_w_modInfo:3cm
#ATTRBOX &#34;Last user&#34;
SET cm_w_lastUser:(textw + cm_w_space)
#ATTRBOX &#34;Date last changed&#34;
SET cm_w_lastChange:(textw + cm_w_space)
SET cm_w_total:(cm_w_space + cm_w_state + cm_w_space + cm_w_modInfo + (cm_w_space / 2) + cm_w_lastUser + (cm_w_space / 2) + cm_w_lastChange + cm_w_space)


SET cm_x_start:0.35cm

# start - smooth shaded colors
CLIP_ROUNDRECT x:(cm_x_start) y:0.0cm w:(cm_w_total + 0.03cm) h:(cm_h_all) rx:0.07cm ry:0.07cm
GRADIENT_RECT x:(cm_x_start) y:0.0cm w:(cm_w_total) h:(cm_h_all) style:downdiag
        color1:$efefef color2:$bdbdbd
#PEN w:0.05cm
FILL style:null
CLIP_OFF
# end - smooth shaded colors

ROUNDRECT x:(cm_x_start) y:0.0cm w:(cm_w_total) h:(cm_h_all) rx:0.07cm ry:0.07cm

FONT h:10pt
#AVAL sStatus:&#34;State&#34;

SET cm_x_start:(cm_x_start + cm_w_space)

FILL color:white
ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm

IF (sStatus = &#34;Reviewed&#34;)
  FONT &#34;Wingdings&#34; h:18pt color:green
  TEXT &#34;C&#34; x:(cm_x_start + 0.1cm) y:0.04cm
  PEN color:green
  FILL style:null
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
ELSIF (sStatus = &#34;Ready&#34;)
  FONT &#34;Wingdings&#34; h:15pt color:$fbc902
  TEXT &#34;&thorn;&#34; x:(cm_x_start + 0.1cm) y:0.08cm
  PEN color:$fbc902
  FILL style:null
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
ELSE
  FONT &#34;Wingdings&#34; h:15pt color:red
  TEXT &#34;!&#34; x:(cm_x_start + 0.05cm) y:(cm_h_space - 0.03cm)
  PEN color:red
  FILL style:null
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_state) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
ENDIF
PEN
FONT

SET cm_x_start:(cm_x_start + 0.7cm + cm_w_space)

FILL color:white
ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_modInfo) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
ATTR &#34;Name&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c
TEXT &#34;The model name&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c

SET cm_x_start:(cm_x_start + cm_w_modInfo + (cm_w_space / 2))

FILL color:white
ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_lastUser) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
#ATTR &#34;Last user&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c

SET cm_x_start:(cm_x_start + cm_w_lastUser + (cm_w_space / 2))
```

```
  FILL color:white
  ROUNDRECT x:(cm_x_start) y:(0.0cm + cm_h_space) w:(cm_w_lastChange) h:(cm_h_attribute) rx:0.1cm ry:0.1cm
  #ATTR &#34;Date last changed&#34; x:(cm_x_start + (cm_w_space / 2)) y:(cm_h_all / 2) h:c

 ELSE
  FILL color:white
  RECTANGLE w:0.28cm h:0.28cm
  FONT h:12pt
  TEXT &#34;+&#34; x:0.02cm y:-0.1cm
  IF (_uilang = &#34;en&#34;)
   HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Show model information&#34; x:0.0cm y:0.0cm w:0.28cm w:0.28cm h:0.28cm
  ELSE # (_uilang = &#34;en&#34;)
   HOTSPOT &#34;_ToggleModelInfo_&#34; text:&#34;Modellinformationen anzeigen&#34; x:0.0cm y:0.0cm w:0.28cm h:0.28cm
  ENDIF

 ENDIF

ENDIF
</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;Description&#34;
ATTR &#34;Name&#34;
</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
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<FACET NAME="AttributeHelpText">Geben sie eine Bezeichnung ein. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
```

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<FACET NAME="AttributeHelpText">Geben sie eine Beschreibung ein. Dient der Dokumentation.</FACET>
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<ATTRIBUTE NAME="Kommentar" TYPE="String" INHERITED="NO"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText">Geben sie einen Kommentar ein. Dient der Dokumentation.</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
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<FACET NAME="AttributeNumericDomain"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Contact person" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Give the contact details for the person who actually performs the activity.

The contact details will be shown in the HTML documentation in order to provide a contact for functionality-feedback.

Geben Sie hier die E-Mail-Adresse des Ansprechpartners für das aktuelle Modell an.

Diese E-Mail-Adresse wird in der HTML-Dokumentation für die Feedback-Funktionalität verwendet.</FACET>
<FACET NAME="AttributeRegularExpression">REGEXP
message:"That is not a valid e-mail adress!"
expression:".*@.*"</FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="_ToggleModelInfo_" TYPE="Programcall" INHERITED="NO"><VALUE>_ToggleModelInfo_</VALUE>
<FACET NAME="EnumerationDomain">ITEM "_ToggleModelInfo_"
TOGGLE_MODEL_INFO</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_str_activeVariant" TYPE="String" INHERITED="NO"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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cond
(tokcnt(targets," ")=0,"black",
(cond
(tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
(
set(tk,token(targets,0," ")),
set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
fortok(x,targets," ",
(

```
    set(c,VAL (copy(aval(VAL x, &#34;Position&#34;),search(aval(VAL x, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
    cond(c&gt;=t,(set(res,x),set(t,c)),&#34;&#34;)
    )),
        aval (VAL res, &#34;Fontcolor&#34;)
  ))
 )
 ))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
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INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER &#34;Description&#34;
ATTR &#34;Keywords&#34; lines:5
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
CHAPTER &#34;User attributes&#34;
ATTR &#34;Model type&#34;
ATTR &#34;State&#34;
ATTR &#34;Reviewed on&#34;
ATTR &#34;Reviewed by&#34;
CHAPTER &#34;System attributes&#34;
ATTR &#34;Author&#34; write-protected
ATTR &#34;Creation date&#34; write-protected
ATTR &#34;Last user&#34; write-protected
ATTR &#34;Date last changed&#34; write-protected
ATTR &#34;Number of objects and relations&#34; write-protected
ATTR &#34;Context of version&#34; write-protected
CHAPTER &#34;Deutsch&#34;
ATTR &#34;Bezeichnung&#34;
ATTR &#34;Beschreibung&#34; lines:5
ATTR &#34;Kommentar&#34; lines:5
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<FACET NAME="MultiLineString">0</FACET>
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<CLASSATTRIBUTE NAME="DokuSim" TYPE="String" INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER &#34;Description&#34;
ATTR &#34;Keywords&#34; lines:5
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
CHAPTER &#34;User attributes&#34;
ATTR &#34;Model type&#34;
ATTR &#34;State&#34;
ATTR &#34;Reviewed on&#34;
ATTR &#34;Reviewed by&#34;
CHAPTER &#34;System attributes&#34;
ATTR &#34;Author&#34; write-protected
ATTR &#34;Creation date&#34; write-protected
ATTR &#34;Last user&#34; write-protected
ATTR &#34;Date last changed&#34; write-protected
ATTR &#34;Number of objects and relations&#34; write-protected
ATTR &#34;Context of version&#34; write-protected
CHAPTER &#34;Deutsch&#34;
ATTR &#34;Bezeichnung&#34;
ATTR &#34;Beschreibung&#34; lines:5
ATTR &#34;Kommentar&#34; lines:5
</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">Documentation</FACET>
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This setting does not influence which classes will be displayed on the generated graphic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Attribute mode" TYPE="Enumeration" INHERITED="NO"><VALUE>Documentation</VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Page layout" TYPE="Enumeration" INHERITED="NO"><VALUE>do not split graphic files</VALUE>
<FACET NAME="EnumerationDomain">do not split graphic files@Full page (without header/footer)@Apply layout settings from model</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select from following options:

"do not split graphic files": The graphic will be automatically resized to fit into one page

"Full page (without header/footer)": The graphic will be generated in its original size (also over many pages) without additional layout elements.

"Apply layout settings from model": Apply the settings from the menu "View" - menu item "Page layout" also for WORD generation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">do not change@rotate left (counter clockwise)@rotate right (clockwise)@rotate by 180°</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">The generation of rotated graphics for WORD documentation is possible only when BMP graphic format is selected (attribute 'Graphic format for WORD').

Das Erzeugen von gedrehten Grafiken bei der WORD-Generierung ist nur für die Einstellung BMP als Grafikformat implementiert.
Das unter 'Grafikformat für WORD' eingestellte Grafikformat wirkt sich also darauf aus, ob die Einstellung unter 'Orientierung' für die Generierung berücksichtigt wird.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<CLASSATTRIBUTE NAME="Graphic file mode" TYPE="Enumeration" INHERITED="NO"><VALUE>do not change</VALUE>
<FACET NAME="EnumerationDomain">do not change</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">While generating a documentation, the instance information is created only for the classes defined in the library attribute "Modi" for the selected mode.

This setting does not influence which classes will be displayed on the generated graphic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<CLASSATTRIBUTE NAME="Language" TYPE="Enumeration" INHERITED="NO"><VALUE>English</VALUE>
<FACET NAME="EnumerationDomain">English@German</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">The chosen language does not apply to the graphical representation of a model.

To change the language for visualized attributes in the graphical representation, choose from the menu "View" the menu entry "Views" and there the submenu entry "Select the language for visualizing the attributes". Follow the onscreen instructions.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">bmp@emf</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">The generation of rotated graphics for WORD documentation is possible only when BMP graphic format is selected (attribute 'Graphic format for WORD').</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<CLASSATTRIBUTE NAME="Graphic format for HTML" TYPE="Enumeration" INHERITED="NO"><VALUE>png</VALUE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">jpg@png@svg</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">jpg@png@svg</FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Cockpit" TYPE="String" INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER "Description"
ATTR "Keywords" lines:5
ATTR "Description" lines:5
ATTR "Comment" lines:5
CHAPTER "User attributes"
ATTR "Model type"
ATTR "State"
ATTR "Reviewed on"
ATTR "Reviewed by"
CHAPTER "System attributes"
ATTR "Author" write-protected
ATTR "Creation date" write-protected
ATTR "Last user" write-protected

ATTR "Date of last change" write-protected
ATTR "Number of objects and relations" write-protected
ATTR "Context of version" write-protected
CHAPTER "Deutsch"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
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</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="filename" TYPE="String" INHERITED="NO"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
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CHAPTER "Description"
ATTR "Keywords" lines:5
ATTR "Description" lines:5
ATTR "Comment" lines:5

CHAPTER "User attributes"

ATTR "Model type"
ATTR "State"
ATTR "Reviewed on"
ATTR "Reviewed by"

CHAPTER "System attributes"
ATTR "Author" write-protected
ATTR "Creation date" write-protected
ATTR "Last user" write-protected
ATTR "Date last changed" write-protected
ATTR "Number of objects and relations" write-protected
ATTR "Context of version" write-protected

CHAPTER "Deutsch"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
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(tokcnt(targets," ")=0,"black",
(cond
(tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
(
set(tk,token(targets,0," ")),
set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
fortok(x,targets," ",
(
set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
cond(c>=t,(set(res,x),set(t,c)),"")
)),
aval (VAL res, "Fontcolor")
))
)
))</VALUE>
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CHAPTER "Description"
ATTR "Name"
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cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
 ))
)
 ))</VALUE>
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CHAPTER "Description"
ATTR "Language"
ATTR "Text" lines:15
</VALUE>
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CHAPTER &#34;Description&#34;
ATTR &#34;Language&#34;
ATTR &#34;Text&#34; lines:15
CHAPTER &#34;Deutsch&#34;
ATTR &#34;Notiz&#34; lines:15
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<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP layer:0 sizing:asymmetrical
SHADOW off
AVAL set-default:&#34;&#34; a:&#34;External graphic&#34;
AVAL set-default:&#34;No&#34; autoB:&#34;Calculate size of graphic automatically&#34;
AVAL set-default:&#34;skyblue&#34; f:&#34;Color&#34;

SET found:(search(a,&#34;\&#34;&#34;,0))
IF (found &gt;= 0)
  IF (found = (LEN a - 1))
    SET s:(search(a,&#34;@&#34;,0) + 1)
    SET e:((LEN a) - 1)
  ELSE
    SET s:((found) + 1)
    SET foundend:(search(a,&#34;\&#34;&#34;,s))
    IF (foundend &gt;= 0)
      SET e:((LEN a) - 1)
    ELSE
      SET e:(LEN a)
    ENDIF
  ENDIF
ELSE
  SET e:(LEN a)
  SET s:(search(a,&#34;@&#34;,0) + 1)
ENDIF

SET grfk:(copy (a, s, e - s))

SET s:((LEN grfk) - 4)
SET e:((LEN grfk))
SET ext:(copy (grfk, s, e))


# -- build obj --

SET ext:(lower(ext))
# --- --- --- --- --- --- --- --- --- --- --- --- --- ---

    TABLE w:4.5cm h:4.5cm cols:3 rows:3
    w1:.15cm w2:100% w3:.15cm
    h1:.15cm h2:100% h3:.15cm
    STRETCH off
```

```
IF (autoB = &#34;No&#34;)
  IF ( (ext=&#34;.bmp&#34;) OR (ext=&#34;.gif&#34;) OR (ext=&#34;.ico&#34;) OR (ext=&#34;.jpg&#34;) OR (ext=&#34;.jpeg&#34;) OR (ext=&#34;.png&#34;) OR
(ext=&#34;.targa&#34;) OR (ext=&#34;.tiff&#34;) OR (ext=&#34;.wbmp&#34;) OR (ext=&#34;.xpm&#34;) )
    BITMAP (grfk) w:(tabw1 + tabw2 + tabw3) h:(tabh1 + tabh2 + tabh3)
  ELSE
    PEN color:darkgray outline
    FILL color:(rgbval (f))
    RECTANGLE w:(tabw1 + tabw2 + tabw3) h:(tabh1 + tabh2 + tabh3)

    AVAL grad:&#34;Font size&#34;
    AVAL typ:&#34;Font style&#34;

    IF (typ = &#34;Standard&#34;)
      FONT h:(PT grad)
    ELSIF (typ = &#34;Italic&#34;)
      FONT h:(PT grad) italic
    ELSIF (typ = &#34;Bold&#34;)
      FONT h:(PT grad) bold
    ELSIF (typ = &#34;Underline&#34;)
      FONT h:(PT grad) underline
    ELSIF (typ = &#34;Bold Italic&#34;)
      FONT h:(PT grad) bold italic
    ELSIF (typ = &#34;Bold Underline&#34;)
      FONT h:(PT grad) bold underline
    ENDIF

    ATTR &#34;Text&#34; x:(tabx1) y:(taby1) w:(tabw2) h:(tabh2)
  ENDIF

# --- --- --- --- --- --- --- --- --- --- --- --- ---

ELSIF (autoB = &#34;Yes&#34;)

  IF ( (ext=&#34;.bmp&#34;) OR (ext=&#34;.gif&#34;) OR (ext=&#34;.ico&#34;) OR (ext=&#34;.jpg&#34;) OR (ext=&#34;.jpeg&#34;) OR (ext=&#34;.png&#34;) OR
(ext=&#34;.targa&#34;) OR (ext=&#34;.tiff&#34;) OR (ext=&#34;.wbmp&#34;) OR (ext=&#34;.xpm&#34;) )
    BITMAPINFO (grfk)  # get the bitmap size
    STRETCH off

    IF (bmpwidth &gt; bmpheight)

# use maximum height, space left and right
      SET w:(tabw1 + tabw2 + tabw3)
      SET h:(((tabw1 + tabw2 + tabw3) * bmpheight) / bmpwidth)
      BITMAP (grfk) x:0cm y:0cm w:(w) h:(h)
      #BITMAP (grfk) x:0cm y:0cm w:(CM bmpwidth) h:(CM bmpheight)
    ELSE
# use maximum width, space at top and bottom
      SET w:(((tabh1 + tabh2 + tabh3) * bmpwidth) / bmpheight)
      SET h:(tabh1 + tabh2 + tabh3)
      BITMAP (grfk) x:0cm y:0cm w:(w) h:(h)
    ENDIF

  ELSE
    PEN color:darkgray outline
    FILL color:(rgbval (f))
    RECTANGLE w:(tabw1 + tabw2 + tabw3) h:(tabh1 + tabh2 + tabh3)

    AVAL grad:&#34;Font size&#34;
    AVAL typ:&#34;Font style&#34;

    IF (typ = &#34;Standard&#34;)
      FONT h:(PT grad)
    ELSIF (typ = &#34;Italic&#34;)
      FONT h:(PT grad) italic
    ELSIF (typ = &#34;Bold&#34;)
      FONT h:(PT grad) bold
    ELSIF (typ = &#34;Underline&#34;)
      FONT h:(PT grad) underline
    ELSIF (typ = &#34;Bold Italic&#34;)
      FONT h:(PT grad) bold italic
    ELSIF (typ = &#34;Bold Underline&#34;)
      FONT h:(PT grad) bold underline
    ENDIF

    ATTR &#34;Text&#34; x:(tabx1) y:(taby1) w:(tabw2) h:(tabh2)
```

ENDIF
ENDIF
</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK

CHAPTER "Description"
ATTR "Text" lines:15
ATTR "External graphic"
ATTR "Calculate size of graphic automatically" ctrltype:check checked-value:"Yes" unchecked-value:"No"
CHAPTER "Graphical Representation"
ATTR "Font size"
ATTR "Font style"
ATTR "Color" dialog:color

</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Text" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="External graphic" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Calculate size of graphic automatically" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Graphical Representation"><ATTRIBUTE name="Font size" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Font style" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Color" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="WF_Trans" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The 'Note' allows free text to be placed within a model.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Model pointer" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<ATTRIBUTE NAME="Text" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter the text for the note.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="NO"><VALUE>10</VALUE>
<FACET NAME="EnumerationDomain">7@8@9@10@11@12@14@16@18@20@22@24@26@28@32@36@48@72</FACET>

<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font style" TYPE="Enumeration" INHERITED="NO"><VALUE>Standard</VALUE>
<FACET NAME="EnumerationDomain">Standard@Italic@Bold@Bold Italic@Underline@Bold Underline</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font style for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External graphic" TYPE="Programcall" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="EnumerationDomain">ITEM "Paint" param:file
START ("mspaint " + file)
</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Reference a graphic file.

The following file formats are available:
 - "bmp"
 - "gif"
 - "ico"
 - "jpeg"
 - "png"
 - "targa"
 - "tiff"
 - "wbmp"
 - "xpm"

Enter a path and file name in the field "Program arguments". If you want to open the referenced file with the program different then system default, select the program in the field "Executable".
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Language" TYPE="Expression" INHERITED="NO"><VALUE>EXPR type:string expr:fixed:(maval("Language"))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Calculate size of graphic automatically" TYPE="Enumeration" INHERITED="NO"><VALUE>No</VALUE>
<FACET NAME="EnumerationDomain">Yes@No</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute calculates the exact area a referenced graphic needs.

It is recommended to activate the automatic calculation before referencing an external graphic.

If this function is activated, the size of the object "Note" is automatically adjusted to the object's size. When changing the size the aspect ratio will be kept.

If it is deactivated, the graphic will be inserted minimized. The graphic must be adjusted manually without keeping the aspect ratio.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="__NameGeneration__" TYPE="String" INHERITED="NO"><VALUE>NAMEGEN srcattr:"__hatNotiz__"</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="__hatNotiz__" TYPE="Expression" INHERITED="NO"><VALUE>EXPR type:string expr:(set(sep,","),
set(s,""),
fortok(x,cfobjs("has Note")," ",set(s,s+aval(VAL x,"Name")+sep)),
set(y,copy(s,0,LEN s - 1)),
cond(y="","Free standing note",y))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Color" TYPE="String" INHERITED="NO"><VALUE>skyblue</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">You can define the object color as follows:

- Select a color in the 'Color' window which can be opened by clicking on the dialog button (on the right above the attribute field).

- Enter a color name (e.g. 'cornflowerblue'; a list of the color names can be found in the user documentation or in the online help).

- Enter an hexadecimal value (e.g. '$FFFFFF' for white), where the value begins with '$' and contains the the red, green and blue values with two digits for each.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>

```
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs(&#34;Is inside&#34;)),
cond
 (tokcnt(targets,&#34; &#34;)=0,&#34;black&#34;,
  (cond
   (tokcnt(targets,&#34; &#34;)=1,aval (VAL ctobjs(&#34;Is inside&#34;), &#34;Fontcolor&#34;),
  (
  set(tk,token(targets,0,&#34; &#34;)),
        set(t,VAL (copy(aval(VAL tk, &#34;Position&#34;),search(aval(VAL tk, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
  fortok(x,targets,&#34; &#34;,
    (
    set(c,VAL (copy(aval(VAL x, &#34;Position&#34;),search(aval(VAL x, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
    cond(c&gt;=t,(set(res,x),set(t,c)),&#34;&#34;)
    )),
        aval (VAL res, &#34;Fontcolor&#34;)
 ))
 )
 ))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</CLASS>
<CLASS NAME="Aggregation" ID="ID510304" METACLASS="__BP_Aggregation__"><CLASSATTRIBUTE NAME="Doku" TYPE="String" INHERITED="NO"><VALUE>NOTEBOOK

CHAPTER &#34;Description&#34;
ATTR &#34;Name&#34;
GROUP &#34;Name display&#34;
ATTR &#34;Display name&#34; ctrltype:check checked-value:&#34;Yes&#34; unchecked-value:&#34;No&#34;
ATTR &#34;Representation&#34;
ATTR &#34;Font size&#34;
ATTR &#34;Font style&#34;
ENDGROUP
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
CHAPTER &#34;Graphical Representation&#34;
ATTR &#34;Graphical representation&#34;
ATTR &#34;Color&#34; dialog:color
ATTR &#34;Lines&#34;</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="DokuSim" TYPE="String" INHERITED="NO"><VALUE>NOTEBOOK
CHAPTER &#34;Description&#34;
ATTR &#34;Language&#34;
ATTR &#34;Name&#34;
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
CHAPTER &#34;Deutsch&#34;
ATTR &#34;Bezeichnung&#34;
ATTR &#34;Beschreibung&#34; lines:5
ATTR &#34;Kommentar&#34; lines:5
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
```

```
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="__MultiSwimlane__" TYPE="Integer" INHERITED="NO"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassName" TYPE="String" INHERITED="YES"><VALUE>Aggregation</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassAbstract" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP layer:-1 sizing:asymmetrical
 SHADOW off
 AVAL set-default:&#34;thistle&#34; f:&#34;Color&#34;
 AVAL s:&#34;Lines&#34;
 AVAL sForm:&#34;Graphical representation&#34;

AVAL set-default:&#34;no&#34; mono:&#34;Monochrome view&#34;
IF (mono = &#34;yes&#34;)
 SET bMono:1
ELSE
 SET bMono:0
ENDIF

PEN w:0.05cm

IF (bMono)
 SET color_x:(rgbval(&#34;white&#34;))
ELSE
 SET color_x:(rgbval(f))
ENDIF

 PEN w:0.05cm
 IF (s = &#34;Dots&#34;)
  PEN style:dot
 ELSIF (s = &#34;Lines&#34;)
  PEN style:dash
 ELSIF (s = &#34;Dots/Lines&#34;)
  PEN style:dashdot
 ELSIF (s = &#34;Bold&#34;)
  PEN w:0.1cm
 ELSIF (s = &#34;None&#34;)
  PEN style:null
 ENDIF

 FILL color:(color_x)

 IF (sForm = &#34;Circle&#34;)
  # circle
  ELLIPSE x:3.0cm y:3.0cm rx:3.0cm ry:3.0cm
  TABLE x:0.0cm y:0.0cm w:6.0cm h:6.0cm
      rows:3 cols:3
      w1:0.15cm w2:100% w3:.15cm
      h1:.1cm h2:100% h3:.1cm

 ELSIF (sForm = &#34;Right arrow&#34;)
  # circle
  TABLE x:0.0cm y:0.0cm w:6.0cm h:9.0cm
      rows:3 cols:3
      w1:0.15cm w2:100% w3:.5cm
      h1:.1cm h2:100% h3:.1cm
  STRETCH off
  POLYGON 5 x1:(tabx0) y1:(taby0) x2:(tabx2) y2:(taby0) x3:(tabx3) y3:((tabh1+tabh2+tabh3)/2) x4:(tabx2) y4:(tabh1+tabh2+tabh3) x5:(tabx0) y5:(tabh1+tabh2+tabh3)
```

```
ELSIF (sForm = &#34;Left arrow&#34;)
  # circle
  TABLE x:0.0cm y:0.0cm w:6.0cm h:9.0cm
        rows:3 cols:3
        w1:0.5cm w2:100% w3:.15cm
        h1:.1cm h2:100% h3:.1cm
  STRETCH off
  POLYGON 5 x1:(tabx1) y1:(taby0) x2:(tabx3) y2:(taby0) x3:(tabx3) y3:(taby3) x4:(tabx1) y4:(taby3) x5:(tabx0) y5:((tabh1+tabh2+tabh3)/2)

ELSIF (sForm = &#34;Downward arrow&#34;)
  # circle
  TABLE x:0.0cm y:0.0cm w:6.0cm h:9.0cm
        rows:3 cols:3
        w1:.15cm w2:100% w3:.15cm
        h1:.1cm h2:100% h3:1.0cm
  STRETCH off
  POLYGON 5 x1:(tabx0) y1:(taby0) x2:(tabx3) y2:(taby0) x3:(tabx3) y3:(taby2) x4:((tabw1+tabw2+tabw3)/2) y4:(taby3) x5:(tabx0) y5:(taby2)

ELSIF (sForm = &#34;Upward arrow&#34;)
  # circle
  TABLE x:0.0cm y:0.0cm w:6.0cm h:9.0cm
        rows:3 cols:3
        w1:.15cm w2:100% w3:.15cm
        h1:1.0cm h2:100% h3:.1cm
  STRETCH off
  POLYGON 5 x1:(tabx0) y1:(taby1) x2:((tabw1+tabw2+tabw3)/2) y2:(taby0) x3:(tabx3) y3:(taby1) x4:(tabx3) y4:(taby3) x5:(tabx0) y5:(taby3)

ELSE
  # standard form

RECTANGLE x:0.0cm y:0.0cm w:6.0cm h:9.0cm
TABLE x:0.0cm y:0.0cm w:6.0cm h:9.0cm
      rows:3 cols:3
      w1:0.15cm w2:100% w3:.15cm
      h1:.1cm h2:100% h3:.1cm
ENDIF

STRETCH off

FONT h:10pt
AVAL d:&#34;Representation&#34;
AVAL n:&#34;Display name&#34;

IF (d = &#34;inside&#34;)
  AVAL col:&#34;Fontcolor&#34;
ELSE
  AVAL col:&#34;fontcolor&#34;
ENDIF

IF (n = &#34;Yes&#34;)
  AVAL grad:&#34;Font size&#34;
  AVAL typ:&#34;Font style&#34;
  IF (typ = &#34;Standard&#34;)
    FONT h:(PT grad)
  ELSIF (typ = &#34;Italic&#34;)
    FONT h:(PT grad) italic
  ELSIF (typ = &#34;Bold&#34;)
    FONT h:(PT grad) bold
  ELSIF (typ = &#34;Underline&#34;)
    FONT h:(PT grad) underline
  ELSIF (typ = &#34;Bold Italic&#34;)
    FONT h:(PT grad) bold italic
  ELSIF (typ = &#34;Bold Underline&#34;)
  FONT h:(PT grad) bold underline
ENDIF

AVAL sName:&#34;Name&#34;
  SET sVis:(sName)

IF (sForm = &#34;Circle&#34;)
  IF (d = &#34;inside&#34;)
    ATTR &#34;Name&#34; text:(sVis) x:((tabw1+tabw2+tabw3)/2) y:((tabh1+tabh2+tabh3)/2) w:c:(tabw2) h:c


  ELSE
```

```
    ATTR &#34;Name&#34; text:(sVis) x:((tabw1+tabw2+tabw3)/2) y:(taby0) w:c:(tabw2) h:b
   ENDIF
  ELSIF (sForm = &#34;upward arrow&#34;)
   IF (d = &#34;inside&#34;)
    ATTR &#34;Name&#34; text:(sVis) x:((tabw1+tabw2+tabw3)/2) y:(taby1 - 0.4cm) w:c:(tabw2) h:t
    ELSE
    ATTR &#34;Name&#34; text:(sVis) x:((tabw1+tabw2+tabw3)/2) y:(taby0) w:c:(tabw2) h:b
   ENDIF
  ELSE
   IF (d = &#34;inside&#34;)
    ATTR &#34;Name&#34; text:(sVis) x:(tabx1) y:(taby1) w:(tabw2) h:(tabh2)
   ELSE
    ATTR &#34;Name&#34; text:(sVis) x:(tabx1) y:-.05cm w:(tabw2) h:b
    ENDIF
  ENDIF
ENDIF
</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK

CHAPTER &#34;Description&#34;
ATTR &#34;Name&#34;
GROUP &#34;Name display&#34;
ATTR &#34;Display name&#34; ctrltype:check checked-value:&#34;Yes&#34; unchecked-value:&#34;No&#34;
ATTR &#34;Representation&#34;
ATTR &#34;Font size&#34;
ATTR &#34;Font style&#34;
ENDGROUP
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
CHAPTER &#34;Graphical Representation&#34;
ATTR &#34;Graphical representation&#34;
ATTR &#34;Color&#34; dialog:color
ATTR &#34;Lines&#34;</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Display name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Font size" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Font style" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Graphical Representation"><ATTRIBUTE name="Graphical representation" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Color" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Lines" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="WF_Trans" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The aggregation supports the logical structure of model contents on the drawing area.

For an object that is placed in an Aggregation, there is an automatic creation of connnections between the Aggregation and the objects in the model with the relation 'Is inside'.

The relation 'Is inside' is not visualized!</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
```

<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Model pointer" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the aggragation.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the aggregation.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Color" TYPE="String" INHERITED="NO"><VALUE>thistle</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">You can define the object color as follows:

- Select a color in the 'Color' window which can be opened by clicking on the dialog button (on the right above the attribute field).

- Enter a color name (e.g. 'cornflowerblue'; a list of the color names can be found in the user documentation or in the online help).

- Enter an hexadecimal value (e.g. '$FFFFFF' for white), where the value begins with '$' and contains the the red, green and blue values with two digits for each. </FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation" TYPE="Enumeration" INHERITED="NO"><VALUE>outside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Lines" TYPE="Enumeration" INHERITED="NO"><VALUE>Normal</VALUE>
<FACET NAME="EnumerationDomain">Normal@Dots@Lines@Dots/Lines@Bold@None</FACET>
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<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="NO"><VALUE>10</VALUE>
<FACET NAME="EnumerationDomain">7@8@9@10@11@12@14@16@18@20@22@24</FACET>
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<FACET NAME="EnumerationDomain">Standard@Italic@Bold@Bold Italic@Underline@Bold Underline</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Display name" TYPE="Enumeration" INHERITED="NO"><VALUE>Yes</VALUE>
<FACET NAME="EnumerationDomain">Yes@No</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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set(valg,floor((((rgbval(aval("Color"))/65536)-valr)*65536)/256)),
cond(valr<180,cond(valg<160,"white","black"),"black"))</VALUE>

```
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">Rectangle@Circle@Right arrow@Downward arrow@Left arrow@Upward arrow</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Different options are available for the graphical representation of this object, e.g. rectangle, arrow or circle.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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cond
 (tokcnt(targets,&#34; &#34;)=0,&#34;black&#34;,
  (cond
   (tokcnt(targets,&#34; &#34;)=1,aval (VAL ctobjs(&#34;Is inside&#34;), &#34;Fontcolor&#34;),
  (
  set(tk,token(targets,0,&#34; &#34;)),
        set(t,VAL (copy(aval(VAL tk, &#34;Position&#34;),search(aval(VAL tk, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
  fortok(x,targets,&#34; &#34;,
    (
    set(c,VAL (copy(aval(VAL x, &#34;Position&#34;),search(aval(VAL x, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
    cond(c&gt;=t,(set(res,x),set(t,c)),&#34;&#34;)
    )),
        aval (VAL res, &#34;Fontcolor&#34;)
  ))
 )
))</VALUE>
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CHAPTER "Description"
ATTR "Name"
</VALUE>
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</CHAPTER>
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<FACET NAME="AttributeRegularExpression"></FACET>
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cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
  ))
)
 ))</VALUE>
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</CLASSATTRIBUTE>
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CHAPTER "Description"
ATTR "Name"
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
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<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="NO"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Boundary lines" TYPE="Enumeration" INHERITED="NO"><VALUE>solid</VALUE>
<FACET NAME="EnumerationDomain">solid@dashed</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the type of graphical representation for the boundary.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Boundary" TYPE="Enumeration" INHERITED="NO"><VALUE>without</VALUE>
<FACET NAME="EnumerationDomain">without@with</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select if the actor should be displayed with or without a boundary. A boundary is a frame around all the objects in the model which directly belong to the respective actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the intentional actor.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Constraints" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe if there are any constraints concerning the participation of the intentional actor e.g. relevant time contraints.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Costs" TYPE="Double" INHERITED="NO"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter already known (fixed) costs for the participation of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the intentional actor.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="NO"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Key actor" TYPE="Enumeration" INHERITED="NO"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute it may be shown which intentional actor plays a 'key role' or is very important for the relationship.

If the 'yes' option is chosen, the object is displayed with a bold red line.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Main skills and competence" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe the know-how, experiences and skills of the intentional actor and why the participation is important.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="NO"><VALUE>0</VALUE>

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<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of boundary" TYPE="Enumeration" INHERITED="NO"><VALUE>top right</VALUE>
<FACET NAME="EnumerationDomain">top right@down right@top left@down left</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute the position of the boundary may be determined. Please note these options only work if the attribute 'Boundary' is on option 'with'.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="NO"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Responsibility" TYPE="String" INHERITED="NO"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText">Define the key responsibilities of the intentional actor.</FACET>
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<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
  ))
)
))</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
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<FACET NAME="AttributeNumericDomain"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP layer:0 sizing:keep-aspect-ratio
SHADOW off
AVAL set-default: "without" b: "Boundary"
AVAL set-default: "down right" rb: "Representation of boundary"
AVAL set-default: "inside" r: "Representation of name"
AVAL set-default: "solid" bl: "Boundary lines"
AVAL set-default: "no" ka: "Key actor"
AVAL i: "Order"
AVAL set-default:"x" p:"Referenced actor"
AVAL sub:"Referenced actor"
AVAL display:"Display name and reference"
AVAL refObj:"Referenced actor"

PEN w:0.05cm color:dodgerblue endcap:flat join:round
IF (bl = "dashed" AND ka="no")
PEN w:0.05cm color:dodgerblue endcap:flat join:round style:dashdot
ELSIF (ka= "yes" AND bl="solid")
PEN w:0.1cm color:red endcap:flat join:round
ELSIF (bl = "dashed" AND ka="yes")
PEN w:0.1cm color:red endcap:flat join:round style:dashdot
ENDIF

IF (rb = "top right" AND b = "with")
CLIP_ELLIPSE x:3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
GRADIENT_RECT x:-3.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
FILL style:null
CLIP_OFF
ELLIPSE x:3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

ELSIF (rb = "down right" AND b = "with")
CLIP_ELLIPSE x:3.0cm y:3.0cm rx:3.88cm ry:3.88cm
GRADIENT_RECT x:-3.88cm y:-3.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
FILL style:null
CLIP_OFF
ELLIPSE x:3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

ELSIF (rb = "down left" AND b = "with")
CLIP_ELLIPSE x:-3.0cm y:3.0cm rx:3.88cm ry:3.88cm
GRADIENT_RECT x:-7.88cm y:-1cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
FILL style:null
CLIP_OFF
ELLIPSE x:-3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

ELSIF (rb = "top left" AND b = "with")
CLIP_ELLIPSE x:-3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
GRADIENT_RECT x:-7.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
FILL style:null
CLIP_OFF
ELLIPSE x:-3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
ENDIF

STRETCH off
CLIP_ELLIPSE rx:.88cm ry:.88cm
GRADIENT_RECT x:-.88cm y:-0.88cm w:1.8cm h:1.8cm style:downdiag color1:powderblue color2:white
FILL style:null

IF (ka = "yes")
PEN w:0.1cm color:red endcap:flat join:round
ELSE
PEN w:0.05cm color:dodgerblue endcap:flat join:round
ENDIF

CLIP_OFF
ELLIPSE rx:-0.88cm ry:0.88cm

```
 FONT h:10pt
 AVAL set-default: &#34;10&#34; grad:&#34;Font size&#34;
 FONT h:(PT grad)

 IF (r = &#34;inside&#34;)
  IF (display = &#34;yes&#34;)
    ATTR &#34;Name&#34; w:c:11.8cm h:c line-break: words
    ATTRBOX &#34;Name&#34; w:c:2.2cm h:c
    FONT &#34;Arial&#34; h:8pt bold
    ATTR &#34;Referenced actor&#34; y:(texty2) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
  ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:c line-break: words
  ENDIF
 ELSE
  IF (display = &#34;yes&#34;)
    ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break: words
    ATTRBOX &#34;Name&#34; w:c:1.8cm h:t y:1cm
    FONT &#34;Arial&#34; h:8pt bold
    ATTR &#34;Referenced actor&#34; y:(texty2) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
  ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break: words
 ENDIF
ENDIF

  IF ( refObj != &#34;&#34; )
    FONT &#34;Wingdings&#34; h:18.0pt color:(col)
    TEXT &#34;&Atilde;&#34; x:1.1cm y:-.5cm w:r h:b
    HOTSPOT &#34;Referenced actor&#34; x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
  ENDIF

  IF (i &gt; &#34;0&#34;)
    FONT &#34;Arial&#34; h:10.0pt color:dodgerblue bold
    ATTR &#34;Order&#34; x:0.75cm y:-0.93cm w:l h:t
  ENDIF</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;Boundary&#34;
ATTR &#34;Representation of boundary&#34;
ATTR &#34;Boundary lines&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details - Benefits&#34;
ATTR &#34;Referenced actor&#34;
ATTR &#34;Display name and reference&#34;
ATTR &#34;Key actor&#34;
ATTR &#34;Main skills and competence&#34;
ATTR &#34;Responsibility&#34; lines:5
CHAPTER &#34;Furhter Details - Constraints&#34;
ATTR &#34;Constraints&#34; lines:5
ATTR &#34;Costs&#34;
GROUP &#34;Availability&#34;
ATTR &#34;Available from&#34;
ATTR &#34;Available till&#34;
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Boundary" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of boundary" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Boundary lines" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
```

<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Font size" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Further Details - Benefits"><ATTRIBUTE name="Referenced actor" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Display name and reference" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Key actor" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Main skills and competence" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Responsibility" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Furhter Details - Constraints"><ATTRIBUTE name="Constraints" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Costs" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="WF_Trans" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>'Actors' are active entities that carry out actions to achieve goals by exercising its know-how. The term actor refers generically to any unit to which intentional dependencies can be ascribed.

An actor interacts with other actors not only through actions or information flows but also relate to each other at an intentional level. Actors depend on each other to achieve goals, perform tasks, and furnish resources. While each actor has strategic goals to pursue, they are achieved through a network of intentional dependencies.

Agents, roles and positions are sub-units of a complex social actor, each of which is an actor in a more specialized sense.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Model pointer" TYPE="String" INHERITED="YES"><VALUE>Referenced actor</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<ATTRIBUTE NAME="Referenced actor" TYPE="Interref" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeInterRefDomain">REFDOMAIN max:1
OBJREF
    mt:"Intentional actors and elements model"
    c:"Actor"
    max:1
</FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Display name and reference" TYPE="Enumeration" INHERITED="NO"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>

<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs("Is inside")),
cond
(tokcnt(targets," ")=0,"black",
(cond
(tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
(
set(tk,token(targets,0," ")),
set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
fortok(x,targets," ",
(
set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
cond(c>=t,(set(res,x),set(t,c)),"")
)),
aval (VAL res, "Fontcolor")
))
)
))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Boundary lines" TYPE="Enumeration" INHERITED="YES"><VALUE>solid</VALUE>
<FACET NAME="EnumerationDomain">solid@dashed</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the type of graphical representation for the boundary.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Boundary" TYPE="Enumeration" INHERITED="YES"><VALUE>without</VALUE>
<FACET NAME="EnumerationDomain">without@with</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select if the actor should be displayed with or without a boundary. A boundary is a frame around all the objects in the model which directly belong to the respective actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the intentional actor.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Constraints" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe if there are any constraints concerning the participation of the intentional actor e.g. relevant time contraints.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>

<ATTRIBUTE NAME="Costs" TYPE="Double" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter already known (fixed) costs for the participation of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the intentional actor.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Key actor" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute it may be shown which intentional actor plays a 'key role' or is very important for the relationship.

If the 'yes' option is chosen, the object is displayed with a bold red line.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Main skills and competence" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe the know-how, experiences and skills of the intentional actor and why the participation is important.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of boundary" TYPE="Enumeration" INHERITED="YES"><VALUE>top right</VALUE>
<FACET NAME="EnumerationDomain">top right@down right@top left@down left</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute the position of the boundary may be determined. Please note these options only work if the attribute 'Boundary' is on option 'with'.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Responsibility" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Define the key responsibilities of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</CLASS>
<CLASS NAME="Agent" ID="ID510346" METACLASS="_Intentional Actor_"><CLASSATTRIBUTE NAME="ClassName" TYPE="String" INHERITED="YES"><VALUE>Agent</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassAbstract" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>

```
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP layer:0 sizing:keep-aspect-ratio
 SHADOW off
 AVAL set-default: &#34;without&#34;  b: &#34;Boundary&#34;
 AVAL set-default: &#34;down right&#34; rb: &#34;Representation of boundary&#34;
 AVAL set-default: &#34;inside&#34; r: &#34;Representation of name&#34;
 AVAL set-default: &#34;solid&#34; bl: &#34;Boundary lines&#34;
 AVAL set-default: &#34;no&#34; ka: &#34;Key actor&#34;
 AVAL i: &#34;Order&#34;
 AVAL set-default:&#34;x&#34; p:&#34;Referenced agent&#34;
 AVAL sub:&#34;Referenced agent&#34;
 AVAL display:&#34;Display name and reference&#34;
 AVAL refObj:&#34;Referenced agent&#34;

  PEN w:0.05cm color:dodgerblue endcap:flat join:round
  IF (bl = &#34;dashed&#34; AND ka=&#34;no&#34;)
    PEN w:0.05cm color:dodgerblue endcap:flat join:round style:dashdot
  ELSIF (ka= &#34;yes&#34; AND bl=&#34;solid&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSIF (bl = &#34;dashed&#34; AND ka=&#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round style:dashdot
  ENDIF

  IF (rb = &#34;top right&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-3.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;down right&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:3.0cm y:3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-3.88cm y:-3.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:3.0cm y:3.0cm rx:-3.88cm ry:3.88cm

  ELSIF (rb = &#34;down left&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:-3.0cm y:3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-1cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;top left&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:-3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
  ENDIF

 STRETCH off
 CLIP_ELLIPSE rx:.88cm ry:.88cm
 GRADIENT_RECT x:-.88cm y:-0.88cm w:1.8cm h:1.8cm style:downdiag color1:powderblue color2:white
 FILL style:null

  IF (ka = &#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSE
    PEN w:0.05cm color:dodgerblue endcap:flat join:round
  ENDIF

 CLIP_OFF
 ELLIPSE rx:-0.88cm ry:0.88cm
 LINE x1:-0.7cm y1:-0.5cm x2:0.7cm y2:-0.5cm

 FONT h:10pt
 AVAL set-default: &#34;10&#34; grad:&#34;Font size&#34;
 FONT h:(PT grad)

 IF (r = &#34;inside&#34;)
   IF (display = &#34;yes&#34;)
     ATTR &#34;Name&#34; w:c:1.8cm h:c line-break:rigorous
     ATTRBOX &#34;Name&#34; x:-0.9cm y:-0.6cm w:1.8cm h:1cm
     FONT &#34;Arial&#34; h:8pt bold
```

```
    ATTR &#34;Referenced agent&#34; y:(texty2 + 0.4cm) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
   ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:c line-break:rigorous
    ATTRBOX &#34;Name&#34; x:-0.9cm y:-0.35cm w:1.8cm h:1cm
    #ATTRBOX &#34;Name&#34; x1:-1cm y1:-0.35cm x2:1cm y2:1cm w:c h:c
   ENDIF
  ELSE
   IF (display = &#34;yes&#34;)
    ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break:rigorous
    ATTRBOX &#34;Name&#34; x:-0.9cm y:-0.35cm w:1.8cm h:1cm
    FONT &#34;Arial&#34; h:8pt bold
    ATTR &#34;Referenced agent&#34; y:(texty2 + 0.4cm) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
   ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break:rigorous
   ENDIF
  ENDIF

   IF ( refObj != &#34;&#34; )
    FONT &#34;Wingdings&#34; h:18.0pt color:(col)
    TEXT &#34;&Atilde;&#34; x:1.1cm y:-.5cm w:r h:b
    HOTSPOT &#34;Referenced agent&#34; x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
   ENDIF

    IF (i &gt; &#34;0&#34;)
     FONT &#34;Arial&#34; h:10.0pt color:dodgerblue bold
     ATTR &#34;Order&#34; x:0.75cm y:-.93cm w:l h:t
    ENDIF</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;Boundary&#34;
ATTR &#34;Representation of boundary&#34;
ATTR &#34;Boundary lines&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details - Benefits&#34;
ATTR &#34;Referenced agent&#34;
ATTR &#34;Display name and reference&#34;
ATTR &#34;Key actor&#34;
ATTR &#34;Main skills and competence&#34;
ATTR &#34;Responsibility&#34; lines:5
CHAPTER &#34;Furhter Details - Constraints&#34;
ATTR &#34;Constraints&#34; lines:5
ATTR &#34;Costs&#34;
GROUP &#34;Availability&#34;
ATTR &#34;Available from&#34;
ATTR &#34;Available till&#34;
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The term agent is used instead of person for generality, so that it can be used to refer to human as well as artificial (hardware / software agents).

An agent has dependencies that apply regardless of what roles he/she/it happens to be playing. These characteristics are typically not easily transferable to other individuals, e.g. its skills and experiences, and its physical limitations.</VALUE>
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    c:"Agent"
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cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
  ))
)
))</VALUE>
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The comments will be used for documentation purposes.</FACET>
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The description will be used for documentation purposes.</FACET>
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<FACET NAME="AttributeHelpText">With this attribute it may be shown which intentional actor plays a 'key role' or is very important for the relationship.

If the 'yes' option is chosen, the object is displayed with a bold red line.</FACET>
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This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">outside@inside</FACET>
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 SHADOW off
 AVAL set-default: "without" b: "Boundary"
 AVAL set-default: "down right" rb: "Representation of boundary"
 AVAL set-default: "inside" r: "Representation of name"
 AVAL set-default: "solid" bl: "Boundary lines"

```
AVAL set-default: &#34;no&#34; ka: &#34;Key actor&#34;
AVAL i: &#34;Order&#34;
AVAL set-default:&#34;x&#34; p:&#34;Referenced role&#34;
AVAL sub:&#34;Referenced role&#34;
AVAL display:&#34;Display name and reference&#34;
AVAL refObj:&#34;Referenced role&#34;

  PEN w:0.05cm color:dodgerblue endcap:flat join:round
  IF (bl = &#34;dashed&#34; AND ka=&#34;no&#34;)
    PEN w:0.05cm color:dodgerblue endcap:flat join:round style:dashdot
  ELSIF (ka= &#34;yes&#34; AND bl=&#34;solid&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSIF (bl = &#34;dashed&#34; AND ka=&#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round style:dashdot
  ENDIF

  IF (rb = &#34;top right&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-3.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;down right&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:3.0cm y:3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-3.88cm y:-3.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;down left&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:-3.0cm y:3.0cm rx:3.88cm ry:3.88cm
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    FILL style:null
    CLIP_OFF
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  ELSIF (rb = &#34;top left&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:-3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
  ENDIF

STRETCH off
CLIP_ELLIPSE rx:.88cm ry:.88cm
GRADIENT_RECT x:-.88cm y:-0.88cm w:1.8cm h:1.8cm style:downdiag color1:powderblue color2:white
FILL style:null

  IF (ka = &#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSE
    PEN w:0.05cm color:dodgerblue endcap:flat join:round
  ENDIF

CLIP_OFF
ELLIPSE rx:-0.88cm ry:0.88cm
CURVE &#34;t&#34; fx:(1.5*sin(t)) fy:(-0.3+0.88*cos(t)) from:-0.53 to:0.55

FONT h:10pt
AVAL set-default: &#34;10&#34; grad:&#34;Font size&#34;
FONT h:(PT grad)

IF (r = &#34;inside&#34;)
  IF (display = &#34;yes&#34;)
    ATTR &#34;Name&#34; w:c:1.8cm h:c line-break: words
    ATTRBOX &#34;Name&#34; w:c:1.8cm h:c
    FONT &#34;Arial&#34; h:8pt bold
    ATTR &#34;Referenced role&#34; y:(texty2) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
  ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:c line-break: words
  ENDIF
ELSE
  IF (display = &#34;yes&#34;)
```

```
    ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break: words
    ATTRBOX &#34;Name&#34; w:c:1.8cm h:t y:1cm
    FONT &#34;Arial&#34; h:8pt bold
    ATTR &#34;Referenced role&#34; y:(texty2) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
   ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break: words
   ENDIF
  ENDIF

  IF ( refObj != &#34;&#34; )
   FONT &#34;Wingdings&#34; h:18.0pt color:(col)
   TEXT &#34;&Atilde;&#34; x:1.1cm y:-.5cm w:r h:b
   HOTSPOT &#34;Referenced role&#34; x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
  ENDIF

    IF (i &gt; &#34;0&#34;)
     FONT &#34;Arial&#34; h:10.0pt color:dodgerblue bold
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ATTR &#34;Order&#34;
ATTR &#34;Boundary&#34;
ATTR &#34;Representation of boundary&#34;
ATTR &#34;Boundary lines&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details - Benefits&#34;
ATTR &#34;Referenced role&#34;
ATTR &#34;Display name and reference&#34;
ATTR &#34;Key actor&#34;
ATTR &#34;Main skills and competence&#34;
ATTR &#34;Responsibility&#34; lines:5
CHAPTER &#34;Furhter Details - Constraints&#34;
ATTR &#34;Constraints&#34; lines:5
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context or domain of endeavor. Its characteristics are easily transferable to other social actors. The dependencies associated with a role apply regardless of the agent who plays the role.

Therefore a role conveys the notion of an abstract actor. A role can be played by one or more agents.</VALUE>
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<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs(&#34;Is inside&#34;)),
cond
  (tokcnt(targets,&#34; &#34;)=0,&#34;black&#34;,
    (cond
      (tokcnt(targets,&#34; &#34;)=1,aval (VAL ctobjs(&#34;Is inside&#34;), &#34;Fontcolor&#34;),
    (
    set(tk,token(targets,0,&#34; &#34;)),
            set(t,VAL (copy(aval(VAL tk, &#34;Position&#34;),search(aval(VAL tk, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
    fortok(x,targets,&#34; &#34;,
```

```
      (
      set(c,VAL (copy(aval(VAL x, &#34;Position&#34;),search(aval(VAL x, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
      cond(c&gt;=t,(set(res,x),set(t,c)),&#34;&#34;)
      )),
            aval (VAL res, &#34;Fontcolor&#34;)
  ))
  )
 ))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Boundary lines" TYPE="Enumeration" INHERITED="YES"><VALUE>solid</VALUE>
<FACET NAME="EnumerationDomain">solid@dashed</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the type of graphical representation for the boundary.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Boundary" TYPE="Enumeration" INHERITED="YES"><VALUE>without</VALUE>
<FACET NAME="EnumerationDomain">without@with</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select if the actor should be displayed with or without a boundary. A boundary is a frame around all the objects in the model which directly belong to the respective actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the intentional actor.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Constraints" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe if there are any constraints concerning the participation of the intentional actor e.g. relevant time contraints.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Costs" TYPE="Double" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter already known (fixed) costs for the participation of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the intentional actor.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
```

</ATTRIBUTE>
<ATTRIBUTE NAME="Key actor" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute it may be shown which intentional actor plays a 'key role' or is very important for the relationship.

If the 'yes' option is chosen, the object is displayed with a bold red line.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Main skills and competence" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe the know-how, experiences and skills of the intentional actor and why the participation is important.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of boundary" TYPE="Enumeration" INHERITED="YES"><VALUE>top right</VALUE>
<FACET NAME="EnumerationDomain">top right@down right@top left@down left</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute the position of the boundary may be determined. Please note these options only work if the attribute 'Boundary' is on option 'with'.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Responsibility" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Define the key responsibilities of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</CLASS>
<CLASS NAME="Position" ID="ID510356" METACLASS="_Intentional Actor_"><CLASSATTRIBUTE NAME="ClassName" TYPE="String" INHERITED="YES"><VALUE>Position</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<CLASSATTRIBUTE NAME="ClassAbstract" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP layer:0 sizing:keep-aspect-ratio
 SHADOW off
 AVAL set-default: "without" b: "Boundary"
 AVAL set-default: "down right" rb: "Representation of boundary"
 AVAL set-default: "inside" r: "Representation of name"
 AVAL set-default: "solid" bl: "Boundary lines"
 AVAL set-default: "no" ka: "Key actor"
 AVAL i: "Order"
 AVAL set-default:"x" p:"Referenced position"
 AVAL sub:"Referenced position"
 AVAL display:"Display name and reference"
 AVAL refObj:"Referenced position"

  PEN w:0.05cm color:dodgerblue endcap:flat join:round
  IF (bl = "dashed" AND ka="no")
   PEN w:0.05cm color:dodgerblue endcap:flat join:round style:dashdot

```
  ELSIF (ka= &#34;yes&#34; AND bl=&#34;solid&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSIF (bl = &#34;dashed&#34; AND ka=&#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round style:dashdot
  ENDIF

  IF (rb = &#34;top right&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-3.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;down right&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:3.0cm y:3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-3.88cm y:-3.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;down left&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:-3.0cm y:3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-1cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio

  ELSIF (rb = &#34;top left&#34; AND b = &#34;with&#34;)
    CLIP_ELLIPSE x:-3.0cm y:-3.0cm rx:3.88cm ry:3.88cm
    GRADIENT_RECT x:-7.88cm y:-7.88cm w:10.8cm h:10.8cm style:downdiag color1:white color2:aliceblue
    FILL style:null
    CLIP_OFF
    ELLIPSE x:-3.0cm y:-3.0cm rx:-3.88cm ry:3.88cm layer:0 sizing:keep-aspect-ratio
  ENDIF

 STRETCH off
 CLIP_ELLIPSE x:-0.4cm y:0cm rx:0.5cm ry:0.43cm
 CLIP_ELLIPSE x:0cm y:-0.4cm rx:0.5cm ry:0.5cm combine-mode:or
 CLIP_ELLIPSE x:0cm y:0.4cm rx:0.5cm ry:0.5cm combine-mode:or
 CLIP_ELLIPSE x:0.4cm y:0cm rx:0.5cm ry:0.43cm combine-mode:or
 GRADIENT_RECT x:-.88cm y:-0.88cm w:1.8cm h:1.8cm style:downdiag color1:powderblue color2:white
 FILL style:null

  IF (ka = &#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSE
    PEN w:0.05cm color:dodgerblue endcap:flat join:round
  ENDIF

 CLIP_OFF
 COMPOUND 4
 CURVE &#34;t&#34; fx:(0.5+.4*sin(t)) fy:(0+.4*cos(t)) from:3.1 to:-0.1
 CURVE &#34;t&#34; fx:(0.5*sin(t)) fy:(0.4+.475*cos(t)) from:1.56 to:-1.56
 CURVE &#34;t&#34; fx:(-0.5+.4*sin(t)) fy:(0+.4*cos(t)) from:6.3 to:3.1
 CURVE &#34;t&#34; fx:(0.5*sin(t)) fy:(-0.4+.475*cos(t)) from:4.7 to:1.5


IF (ka = &#34;yes&#34;)
    PEN w:0.1cm color:red endcap:flat join:round
  ELSE
    PEN w:0.05cm color:dodgerblue endcap:flat join:round
  ENDIF

 FONT h:10pt
 AVAL set-default: &#34;10&#34; grad:&#34;Font size&#34;
 FONT h:(PT grad)

 IF (r = &#34;inside&#34;)
  IF (display = &#34;yes&#34;)
    ATTR &#34;Name&#34; w:c:1.8cm h:c line-break: words
    ATTRBOX &#34;Name&#34; w:c:1.8cm h:c
    FONT &#34;Arial&#34; h:8pt bold
    ATTR &#34;Referenced position&#34; y:(texty2) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
    FONT
  ELSE
    ATTR &#34;Name&#34; w:c:1.8cm h:c line-break: words
```

```
  ENDIF
   ELSE
    IF (display = &#34;yes&#34;)
     ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break: words
     ATTRBOX &#34;Name&#34; w:c:1.8cm h:t y:1cm
     FONT &#34;Arial&#34; h:8pt bold
     ATTR &#34;Referenced position&#34; y:(texty2) w:c:1.8cm h:t format:&#34;%o (%m)&#34;
     FONT
    ELSE
     ATTR &#34;Name&#34; w:c:1.8cm h:t y:1cm line-break: words
    ENDIF
ENDIF

 IF ( refObj != &#34;&#34; )
  FONT &#34;Wingdings&#34; h:18.0pt color:(col)
  TEXT &#34;&Atilde;&#34; x:1.1cm y:-.5cm w:r h:b
  HOTSPOT &#34;Referenced position&#34; x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
 ENDIF

  IF (i &gt; &#34;0&#34;)
   FONT &#34;Arial&#34; h:10.0pt color:dodgerblue bold
   ATTR &#34;Order&#34; x:0.59cm y:-.93cm w:l h:t
  ENDIF</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;Boundary&#34;
ATTR &#34;Representation of boundary&#34;
ATTR &#34;Boundary lines&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details - Benefits&#34;
ATTR &#34;Referenced position&#34;
ATTR &#34;Display name and reference&#34;
ATTR &#34;Key actor&#34;
ATTR &#34;Main skills and competence&#34;
ATTR &#34;Responsibility&#34; lines:5
CHAPTER &#34;Furhter Details - Constraints&#34;
ATTR &#34;Constraints&#34; lines:5
ATTR &#34;Costs&#34;
GROUP &#34;Availability&#34;
ATTR &#34;Available from&#34;
ATTR &#34;Available till&#34;
ENDGROUP
</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Boundary" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of boundary" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Boundary lines" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
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<ATTRIBUTE name="Representation of name" writeprotected="0"></ATTRIBUTE>
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</CHAPTER>
<CHAPTER name="Further Details - Benefits"><ATTRIBUTE name="Referenced position" writeprotected="0"></ATTRIBUTE>
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<ATTRIBUTE name="Main skills and competence" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Responsibility" writeprotected="0"></ATTRIBUTE>
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<ATTRIBUTE name="Costs" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
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<FACET NAME="AttributeRegularExpression"></FACET>
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</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Position' is an intermediate abstraction that can be used between a role and an agent. It is a set of roles typically played by one agent (e.g., assigned jointly to that one agent). We say that an agent occupies a position. A position is said to cover a role. A position is abstract and an amalgamation of roles. A position can be ascribed to a human or non-human, even though the later case is rare.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Model pointer" TYPE="String" INHERITED="YES"><VALUE>Referenced position</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeInterRefDomain">REFDOMAIN max:1
OBJREF
mt:"Intentional actors and elements model"
c:"Position"
max:1
</FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Display name and reference" TYPE="Enumeration" INHERITED="NO"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Referenced position" TYPE="Interref" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeInterRefDomain">REFDOMAIN max:1
OBJREF
mt:"Intentional actors and elements model"
c:"Position"
max:1
</FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>

<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs("Is inside")),
cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
 ))
)
 ))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Boundary lines" TYPE="Enumeration" INHERITED="YES"><VALUE>solid</VALUE>
<FACET NAME="EnumerationDomain">solid@dashed</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the type of graphical representation for the boundary.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Boundary" TYPE="Enumeration" INHERITED="YES"><VALUE>without</VALUE>
<FACET NAME="EnumerationDomain">without@with</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select if the actor should be displayed with or without a boundary. A boundary is a frame around all the objects in the model which directly belong to the respective actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the intentional actor.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Constraints" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe if there are any constraints concerning the participation of the intentional actor e.g. relevant time contraints.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Costs" TYPE="Double" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter already known (fixed) costs for the participation of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>

</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the intentional actor.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Key actor" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute it may be shown which intentional actor plays a 'key role' or is very important for the relationship.

If the 'yes' option is chosen, the object is displayed with a bold red line.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Main skills and competence" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Further describe the know-how, experiences and skills of the intentional actor and why the participation is important.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of boundary" TYPE="Enumeration" INHERITED="YES"><VALUE>top right</VALUE>
<FACET NAME="EnumerationDomain">top right@down right@top left@down left</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">With this attribute the position of the boundary may be determined. Please note these options only work if the attribute 'Boundary' is on option 'with'.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Responsibility" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Define the key responsibilities of the intentional actor.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>

<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER "Description"
ATTR "Name"
</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<CLASSATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<CLASSATTRIBUTE NAME="Model pointer" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the needs and requirements to be fulfilled.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the respective entity.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="NO"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="NO"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>

<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="NO"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State of fulfilment" TYPE="Enumeration" INHERITED="NO"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">satisfied@weakly satisfied@weakly denied@denied@unknown@conflict@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Evaluate how strong the relationship is. The attribute allows to set evaluation labels.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="NO"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="NO"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority Order" TYPE="Integer" INHERITED="NO"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority" TYPE="Enumeration" INHERITED="NO"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">yes@no</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs("ls inside")),
cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("ls inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
  ))
)
))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>

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<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</CLASS>
<CLASS NAME="Goal" ID="ID510374" METACLASS="_Intentional Element_"><CLASSATTRIBUTE NAME="ClassName" TYPE="String" INHERITED="YES"><VALUE>Goal</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassAbstract" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP

 AVAL set-default: &#34;inside&#34; r: &#34;Representation of name&#34;
 AVAL set-default: &#34;na&#34; s: &#34;State of fulfilment&#34;
 AVAL i: &#34;Order&#34;
 AVAL refObj:&#34;Referenced goals&#34;

 SHADOW off
 CLIP_ROUNDRECT x:-1.1cm y:-.6cm w:2.2cm h:1.2cm rx:0.3cm ry:0.3cm
 GRADIENT_RECT x:-1.1cm y:-.6cm w:2.2cm h:1.2cm style:downdiag color1:white color2:palegreen
 CLIP_OFF
 PEN w:0.05cm color:green endcap:round join:round
 FILL style:null
 COMPOUND 4
 CURVE &#34;t&#34; fx:(.8+.3*sin(t)) fy:(.3+.3*cos(t)) from:0 to:1.6
 CURVE &#34;t&#34; fx:(.8+.3*sin(t)) fy:(-.3+.3*cos(t)) from:1.6 to:3.14
 CURVE &#34;t&#34; fx:(-.8+.3*sin(t)) fy:(-.3+.3*cos(t)) from:3.15 to:4.7
 CURVE &#34;t&#34; fx:(-.8+.3*sin(t)) fy:(.31+.3*cos(t)) from:4.7 to:6.28

 FONT h:10pt
 AVAL set-default: &#34;10&#34; grad:&#34;Font size&#34;
 FONT h:(PT grad)

  IF (r = &#34;inside&#34;)
    ATTR &#34;Name&#34; w:c:2.2cm h:c line-break: words
  ELSE
    ATTR &#34;Name&#34; w:c:2.2cm h:t y:0.8cm line-break: words
  ENDIF

     IF (s = &#34;satisfied&#34;)
       PEN w:0.17cm color:lawngreen endcap:round join:round
       POLYLINE 3 x1:-1.5cm y1:-0.35cm x2:-1.4cm y2:-0.2cm x3:-1.1cm y3:-0.7cm
     ENDIF

     IF (s = &#34;weakly satisfied&#34;)
       PEN w:0.1cm color:limegreen endcap:round join:round
       POLYLINE 3 x1:-1.5cm y1:-0.35cm x2:-1.4cm y2:-0.2cm x3:-1.1cm y3:-0.7cm
       PEN w:0.13cm color:limegreen endcap:round join:round
       POINT x:-1.25cm y:-0.2cm
     ENDIF

     IF (s = &#34;denied&#34;)
       PEN w:0.17cm color:red endcap:round join:round
       POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
       POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
     ENDIF

     IF (s = &#34;weakly denied&#34;)
       PEN w:0.1cm color:orange endcap:round join:round
       POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
       POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
       PEN w:0.13cm color:orange endcap:round join:round
       POINT x:-1.46cm y:-0.1cm
     ENDIF

     IF (s = &#34;unknown&#34;)
```

```
      PEN w:0.1cm color:$3f3f3f endcap:round join:round
      FONT &#34;Times New Roman MT Extra Bold&#34; h:20.0pt color:$3f3f3f
      TEXT &#34;?&#34; x:-1.45cm y:-0.8cm w:l h:t
      PEN w:0.13cm color:$3f3f3f endcap:round join:round
      POINT x:-1.5cm y:-0.6cm
    ENDIF

    IF (s = &#34;conflict&#34;)
      PEN w:0.03cm color:green endcap:square join:miter
      FILL color:yellow
      POLYGON 6 x1:-1.8cm y1:-0.5cm x2:-1.35cm y2:-0.3cm x3:-1.55cm y3:-0.2cm
            x4:-1.3cm y4:-0cm x5:-1.75cm y5:-0.2cm x6:-1.55cm y6:-0.3cm
    ENDIF

  IF ( refObj != &#34;&#34; )
    FONT &#34;Wingdings&#34; h:18.0pt color:(col)
    TEXT &#34;&Atilde;&#34; x:1.1cm y:-.5cm w:r h:b
    HOTSPOT &#34;Referenced goals&#34; x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
  ENDIF

  IF (i &gt; &#34;0&#34;)
    FONT &#34;Arial&#34; h:10.0pt color:green bold
    ATTR &#34;Order&#34; x:-1.2cm y:0.2cm w:r h:t
  ENDIF

 AVAL po: &#34;Priority Order&#34;

  IF (po &gt; &#34;0&#34;)
    PEN 0.08
    FILL color: orange
    ELLIPSE x:1.38cm y:-0.4cm rx:0.23cm ry:0.23cm
    FONT &#34;Arial&#34; h:10.0pt color:black bold
    ATTR &#34;Priority Order&#34; x:1.37cm y:-0.6cm w:c h:t
  ENDIF

 AVAL set-default: &#34;no&#34; p: &#34;Priority&#34;
  IF (p = &#34;yes&#34;)
    FONT &#34;Times New Roman MT Extra Bold&#34; h:16.0pt color:red bold
    TEXT &#34;!&#34; x:1.12cm y:-1cm w:c h:t
 ENDIF
 </VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="VisibleAttrs" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;State of fulfilment&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details&#34;
ATTR &#34;Priority&#34; ctrltype:check checked-value:&#34;yes&#34; unchecked-value:&#34;no&#34;
ATTR &#34;Priority Order&#34;
ATTR &#34;Referenced goals&#34;
GROUP &#34;Availability&#34;
ATTR &#34;Available from&#34;
ATTR &#34;Available till&#34;
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="State of fulfilment" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Font size" writeprotected="0"></ATTRIBUTE>
```

```
</CHAPTER>
<CHAPTER name="Further Details"><ATTRIBUTE name="Priority" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Priority Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Referenced goals" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="WF_Trans" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Goal' is a condition or state of affairs to be achieved. An actor can choose freely among different
ways to achieve a goal.

Represents and intentional desire of an actor, the specifics of HOW the goal is to be satisfied is not described by the goal. This can be described through task decomposition.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Model pointer" TYPE="String" INHERITED="YES"><VALUE>Referenced goals</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<ATTRIBUTE NAME="Referenced goals" TYPE="Interref" INHERITED="NO"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeInterRefDomain">REFDOMAIN max:99
OBJREF
    mt:&#34;Intentional actors and elements model&#34;
    c:&#34;Goal&#34;
    max:99
</FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs(&#34;Is inside&#34;)),
cond
 (tokcnt(targets,&#34; &#34;)=0,&#34;black&#34;,
   (cond
     (tokcnt(targets,&#34; &#34;)=1,aval (VAL ctobjs(&#34;Is inside&#34;), &#34;Fontcolor&#34;),
   (
   set(tk,token(targets,0,&#34; &#34;)),
            set(t,VAL (copy(aval(VAL tk, &#34;Position&#34;),search(aval(VAL tk, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
   fortok(x,targets,&#34; &#34;,
```

(
set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
cond(c>=t,(set(res,x),set(t,c)),"")
)),
aval (VAL res, "Fontcolor")
))
)
))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the needs and requirements to be fulfilled.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the respective entity.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State of fulfilment" TYPE="Enumeration" INHERITED="YES"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">satisfied@weakly satisfied@weakly denied@denied@unknown@conflict@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Evaluate how strong the relationship is. The attribute allows to set evaluation labels.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>

<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
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<FACET NAME="EnumerationDomain">yes@no</FACET>
<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP

AVAL set-default: "inside" r: "Representation of name"
AVAL set-default: "na" s: "State of fulfilment"
AVAL i: "Order"
AVAL refObj:"Referenced softgoals"

PEN w:0.05cm color:green endcap:round join:round
CLIP_ELLIPSE x:0.86cm y:0cm rx:0.3cm ry:0.63cm
CLIP_ELLIPSE x:-0.86cm y:0cm rx:0.3cm ry:0.63cm combine-mode:or
GRADIENT_RECT x:-1.2cm y:-.6cm w:2.4cm h:1.3cm style:downdiag color1:white color2:palegreen
CLIP_OFF
CLIP_RECT x:-0.7cm y:-.6cm w:1.5cm h:1.6cm
CLIP_ELLIPSE x:0cm y:-1cm rx:1.1cm ry:0.56cm combine-mode:diff
CLIP_ELLIPSE x:0cm y:1cm rx:1.1cm ry:0.56cm combine-mode:diff
GRADIENT_RECT x:-1.2cm y:-.6cm w:2.4cm h:1.3cm style:downdiag color1:white color2:palegreen
CLIP_OFF
CURVE "t" fx:(1.1*sin(t)) fy:(.9+(-0.5*cos(t))+0.05) from:-0.88 to:0.88
CURVE "t" fx:(1.1*sin(t)) fy:(-.9+.5*cos(t)-0.05) from:-0.88 to:0.88
#RECTANGLE x:0.83cm y:-0.62cm w:0.3cm h:1.2cm
right and left side of "knochen" - line only
CLIP_RECT x:0.82cm y:-2.5cm w:3cm h:4cm
ELLIPSE x:0.86cm y:0cm rx:0.3cm ry:0.63cm
CLIP_OFF
CLIP_RECT x:-0.82cm y:-2.5cm w:-3cm h:4cm
ELLIPSE x:-0.86cm y:0cm rx:0.3cm ry:0.63cm
CLIP_OFF

FONT h:10pt
AVAL set-default: "10" grad:"Font size"
FONT h:(PT grad)

IF (r = "inside")
  ATTR "Name" w:c:2.2cm h:c line-break: words
ELSE
  ATTR "Name" w:c:2.2cm h:t y:0.8cm line-break: words
ENDIF

  IF (i > "0")
    FONT "Arial" h:10.0pt color:green bold
    ATTR "Order" x:-1.2cm y:0.2cm w:r h:t
  ENDIF

    IF (s = "satisfied")
      PEN w:0.17cm color:lawngreen endcap:round join:round
      POLYLINE 3 x1:-1.5cm y1:-0.35cm x2:-1.4cm y2:-0.2cm x3:-1.1cm y3:-0.7cm

```
    ENDIF

    IF (s = &#34;weakly satisfied&#34;)
      PEN w:0.1cm color:limegreen endcap:round join:round
      POLYLINE 3 x1:-1.5cm y1:-0.35cm x2:-1.4cm y2:-0.2cm x3:-1.1cm y3:-0.7cm
      PEN w:0.13cm color:limegreen endcap:round join:round
      POINT x:-1.25cm y:-0.2cm
    ENDIF

    IF (s = &#34;denied&#34;)
      PEN w:0.17cm color:red endcap:round join:round
      POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
      POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
    ENDIF

    IF (s = &#34;weakly denied&#34;)
      PEN w:0.1cm color:orange endcap:round join:round
      POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
      POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
      PEN w:0.13cm color:orange endcap:round join:round
      POINT x:-1.46cm y:-0.1cm
    ENDIF

    IF (s = &#34;unknown&#34;)
      PEN w:0.1cm color:$3f3f3f endcap:round join:round
      FONT &#34;Times New Roman MT Extra Bold&#34; h:20.0pt color:$3f3f3f
      TEXT &#34;?&#34; x:-1.45cm y:-0.8cm w:l h:t
      PEN w:0.13cm color:$3f3f3f endcap:round join:round
      POINT x:-1.5cm y:-0.6cm
    ENDIF

    IF (s = &#34;conflict&#34;)
      PEN w:0.03cm color:green endcap:square join:miter
      FILL color:yellow
      POLYGON 6 x1:-1.8cm y1:-0.5cm x2:-1.35cm y2:-0.3cm x3:-1.55cm y3:-0.2cm
            x4:-1.3cm y4:-0cm x5:-1.75cm y5:-0.2cm x6:-1.55cm y6:-0.3cm
    ENDIF

   IF ( refObj != &#34;&#34; )
     FONT &#34;Wingdings&#34; h:18.0pt color:(col)
     TEXT &#34;&Atilde;&#34; x:1.1cm y:-.5cm w:r h:b
     HOTSPOT &#34;Referenced softgoals&#34; x:0.55cm y:-1.35cm w:0.5cm h:0.6cm
   ENDIF

  AVAL po: &#34;Priority Order&#34;

   IF (po &gt; &#34;0&#34;)
     PEN 0.08
     FILL color: orange
     ELLIPSE x:1.39cm y:-0.4cm rx:0.23cm ry:0.23cm
     FONT &#34;Arial&#34; h:10.0pt color:black bold
     ATTR &#34;Priority Order&#34; x:1.395cm y:-0.6cm w:c h:t
   ENDIF

  AVAL set-default: &#34;no&#34; p: &#34;Priority&#34;
    IF (p = &#34;yes&#34;)
      FONT &#34;Times New Roman MT Extra Bold&#34; h:16.0pt color:red bold
      TEXT &#34;!&#34; x:1.12cm y:-1cm w:c h:t
  ENDIF
  </VALUE>
<FACET NAME="MultiLineString">1</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;State of fulfilment&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
```

ATTR "Comment"
ATTR "Representation of name"
ATTR "Font size"
CHAPTER "Further Details"
ATTR "Priority" ctrltype:check checked-value:"yes" unchecked-value:"no"
ATTR "Priority Order"
ATTR "Referenced softgoals"
GROUP "Availability"
ATTR "Available from"
ATTR "Available till"
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="State of fulfilment" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
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<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
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<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">1</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Softgoal' is a goal without a clear-cut criterion for achievement, thus requiring further refinement and judgment. Softgoals are typically used to represent quality goals.

Softgoals are similar to (hard) goals except that the criteria for the goal's satisfaction are not clear-cut, it is judged to be sufficiently satisfied from the point of view of the actor. The means to satisfy such goals are described via contribution links from other elements. The notion of softgoal satisfaction is described by the term satisficed meaning sufficiently satisfied. The converse is still described as denied.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeInterRefDomain">REFDOMAIN max:99
OBJREF
    mt:"Intentional actors and elements model"
    c:"Softgoal"
    max:99

```
</FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Position" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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cond
 (tokcnt(targets,&#34; &#34;)=0,&#34;black&#34;,
   (cond
    (tokcnt(targets,&#34; &#34;)=1,aval (VAL ctobjs(&#34;Is inside&#34;), &#34;Fontcolor&#34;),
   (
   set(tk,token(targets,0,&#34; &#34;)),
            set(t,VAL (copy(aval(VAL tk, &#34;Position&#34;),search(aval(VAL tk, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
   fortok(x,targets,&#34; &#34;,
      (
      set(c,VAL (copy(aval(VAL x, &#34;Position&#34;),search(aval(VAL x, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
      cond(c&gt;=t,(set(res,x),set(t,c)),&#34;&#34;)
      )),
            aval (VAL res, &#34;Fontcolor&#34;)
  ))
  )
 ))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the needs and requirements to be fulfilled.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the respective entity.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic
Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
```

<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State of fulfilment" TYPE="Enumeration" INHERITED="YES"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">satisfied@weakly satisfied@weakly denied@denied@unknown@conflict@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Evaluate how strong the relationship is. The attribute allows to set evaluation labels.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
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<ATTRIBUTE NAME="Priority" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">yes@no</FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP

AVAL set-default: "inside" r: "Representation of name"
AVAL set-default: "na" s: "State of fulfilment"
AVAL i: "Order"

SET x:({-0.6cm, -1.4cm, -0.6cm, 0.6cm, 1.4cm, 0.6cm})
SET y:({-0.6cm, 0cm, 0.6cm, 0.6cm, 0cm, -0.6cm})
PEN w:0.05cm color:green endcap:round join:round
FILL style:null
CLIP_POLY 6
x1:(x[0]) y1:(y[0]) x2:(x[1]) y2:(y[1]) x3:(x[2]) y3:(y[2])
x4:(x[3]) y4:(y[3]) x5:(x[4]) y5:(y[4]) x6:(x[5]) y6:(y[5])
GRADIENT_RECT x:-1.6cm y:-.6cm w:5.2cm h:1.2cm style:downdiag color1:white color2:palegreen
CLIP_OFF
POLYGON 6
x1:(x[0]) y1:(y[0]) x2:(x[1]) y2:(y[1]) x3:(x[2]) y3:(y[2])
x4:(x[3]) y4:(y[3]) x5:(x[4]) y5:(y[4]) x6:(x[5]) y6:(y[5])
FONT h:10pt
AVAL set-default: "10" grad:"Font size"
FONT h:(PT grad)

IF (r = "inside")
ATTR "Name" w:c:2.2cm h:c line-break: words
ELSE
ATTR "Name" w:c:2.2cm h:t y:0.8cm line-break: words

```
  ENDIF

    IF (s = &#34;satisfied&#34;)
      PEN w:0.17cm color:lawngreen endcap:round join:round
      POLYLINE 3 x1:-1.5cm y1:-0.45cm x2:-1.4cm y2:-0.3cm x3:-1.1cm y3:-0.8cm
    ENDIF

    IF (s = &#34;weakly satisfied&#34;)
      PEN w:0.1cm color:limegreen endcap:round join:round
      POLYLINE 3 x1:-1.5cm y1:-0.45cm x2:-1.4cm y2:-0.3cm x3:-1.1cm y3:-0.8cm
      PEN w:0.13cm color:limegreen endcap:round join:round
      POINT x:-1.25cm y:-0.3cm
    ENDIF

    IF (s = &#34;denied&#34;)
      PEN w:0.17cm color:red endcap:round join:round
      POLYLINE 5 x1:-1.51cm y1:-0.7cm x2:-1.52cm y2:-0.7cm x3:-1.42cm y3:-0.45cm x4:-1.32cm y4:-0.3cm x5:-1.28cm y5:-0.35cm
      POLYLINE 2 x1:-1.28cm y1:-0.7cm x2:-1.6cm y2:-0.3cm
    ENDIF

    IF (s = &#34;weakly denied&#34;)
      PEN w:0.1cm color:orange endcap:round join:round
      POLYLINE 5 x1:-1.51cm y1:-0.7cm x2:-1.52cm y2:-0.7cm x3:-1.42cm y3:-0.45cm x4:-1.32cm y4:-0.3cm x5:-1.28cm y5:-0.35cm
      POLYLINE 2 x1:-1.28cm y1:-0.7cm x2:-1.6cm y2:-0.3cm
      PEN w:0.13cm color:orange endcap:round join:round
      POINT x:-1.46cm y:-0.2cm
    ENDIF

    IF (s = &#34;unknown&#34;)
      PEN w:0.1cm color:$3f3f3f endcap:round join:round
      FONT &#34;Times New Roman MT Extra Bold&#34; h:20.0pt color:$3f3f3f
      TEXT &#34;?&#34; x:-1.45cm y:-0.85cm w:l h:t
      PEN w:0.13cm color:$3f3f3f endcap:round join:round
      POINT x:-1.5cm y:-0.7cm
    ENDIF

    IF (s = &#34;conflict&#34;)
      PEN w:0.03cm color:green endcap:square join:miter
      FILL color:yellow
      POLYGON 6 x1:-1.8cm y1:-0.7cm x2:-1.35cm y2:-0.5cm x3:-1.55cm y3:-0.4cm
            x4:-1.3cm y4:-0.2cm x5:-1.75cm y5:-0.4cm x6:-1.55cm y6:-0.5cm
    ENDIF

  IF (i &gt; &#34;0&#34;)
    FONT &#34;Arial&#34; h:10.0pt color:green bold
    ATTR &#34;Order&#34; x:-1.2cm y:0.3cm w:r h:t
  ENDIF

  AVAL po: &#34;Priority Order&#34;

    IF (po &gt; &#34;0&#34;)
      PEN 0.08
      FILL color: orange
      ELLIPSE x:1.38cm y:-0.4cm rx:0.23cm ry:0.23cm
      FONT &#34;Arial&#34; h:10.0pt color:black bold
      ATTR &#34;Priority Order&#34; x:1.37cm y:-0.6cm w:c h:t
    ENDIF

  AVAL set-default: &#34;no&#34; p: &#34;Priority&#34;
    IF (p = &#34;yes&#34;)
      FONT &#34;Times New Roman MT Extra Bold&#34; h:16.0pt color:red bold
      TEXT &#34;!&#34; x:1.09cm y:-0.85cm w:c h:t
  ENDIF
  </VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
```

ATTR "Order"
ATTR "State of fulfilment"
CHAPTER "Description"
ATTR "Description"
ATTR "Comment"
ATTR "Representation of name"
ATTR "Font size"
CHAPTER "Further Details"
ATTR "Priority" ctrltype:check checked-value:"yes" unchecked-value:"no"
ATTR "Priority Order"
GROUP "Availability"
ATTR "Available from"
ATTR "Available till"
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="State of fulfilment" writeprotected="0"></ATTRIBUTE>
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<ATTRIBUTE name="Font size" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
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<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Task' is a course of action to be carried out. It specifies a particular way of doing something, typically to achieve some goal.

The actor wants to accomplish some specific task, performed in a particular way. A description of the specifics of the task may be described by decomposing the task into further sub-elements</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>

<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs("Is inside")),
cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
    cond(c>=t,(set(res,x),set(t,c)),"")
    )),
        aval (VAL res, "Fontcolor")
  ))
)
))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the needs and requirements to be fulfilled.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the respective entity.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State of fulfilment" TYPE="Enumeration" INHERITED="YES"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">satisfied@weakly satisfied@weakly denied@denied@unknown@conflict@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Evaluate how strong the relationship is. The attribute allows to set evaluation labels.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>

<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">yes@no</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</CLASS>
<CLASS NAME="Resource" ID="ID510385" METACLASS="_Intentional Element_"><CLASSATTRIBUTE NAME="ClassName" TYPE="String"
INHERITED="YES"><VALUE>Resource</VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="ClassVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP

AVAL set-default: "inside" r: "Representation of name"
AVAL set-default: "na" s: "State of fulfilment"
AVAL i: "Order"

GRADIENT_RECT x:-1.1cm y:-.6cm w:2.2cm h:1.2cm style:downdiag color1:white color2:palegreen
PEN w:0.05cm color:green endcap:round join:round
FILL style:null
RECTANGLE x:-1.1cm y:-.6cm w:2.2cm h:1.2cm

FONT h:10pt
AVAL set-default: "10" grad:"Font size"
FONT h:(PT grad)

IF (r = "inside")
ATTR "Name" w:c:2.2cm h:c line-break: words
ELSE
ATTR "Name" w:c:2.2cm h:t y:0.8cm line-break: words
ENDIF

IF (s = "satisfied")
PEN w:0.1cm color:lawngreen endcap:round join:round
POLYLINE 3 x1:-1.7cm y1:-0.35cm x2:-1.6cm y2:-0.2cm x3:-1.3cm y3:-0.7cm
ENDIF

IF (s = "weakly satisfied")
PEN w:0.17cm color:limegreen endcap:round join:round
POLYLINE 3 x1:-1.7cm y1:-0.35cm x2:-1.6cm y2:-0.2cm x3:-1.3cm y3:-0.7cm
PEN w:0.13cm color:limegreen endcap:round join:round
POINT x:-1.35cm y:-0.2cm
ENDIF

IF (s = "denied")
PEN w:0.17cm color:red endcap:round join:round
POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm

```
    POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
   ENDIF

   IF (s = &#34;weakly denied&#34;)
    PEN w:0.1cm color:orange endcap:round join:round
    POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
    POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
    PEN w:0.13cm color:orange endcap:round join:round
    POINT x:-1.46cm y:-0.1cm
   ENDIF

   IF (s = &#34;unknown&#34;)
    PEN w:0.1cm color:$3f3f3f endcap:round join:round
    FONT &#34;Times New Roman MT Extra Bold&#34; h:20.0pt color:$3f3f3f
    TEXT &#34;?&#34; x:-1.45cm y:-0.8cm w:l h:t
    PEN w:0.13cm color:$3f3f3f endcap:round join:round
    POINT x:-1.5cm y:-0.6cm
   ENDIF

   IF (s = &#34;conflict&#34;)
    PEN w:0.03cm color:green endcap:square join:miter
    FILL color:yellow
    POLYGON 6 x1:-1.8cm y1:-0.5cm x2:-1.35cm y2:-0.3cm x3:-1.55cm y3:-0.2cm
          x4:-1.3cm y4:-0cm x5:-1.75cm y5:-0.2cm x6:-1.55cm y6:-0.3cm
   ENDIF

    IF (i &gt; &#34;0&#34;)
     FONT &#34;Arial&#34; h:10.0pt color:green bold
     ATTR &#34;Order&#34; x:-1.2cm y:0.2cm w:r h:t
    ENDIF

 AVAL po: &#34;Priority Order&#34;

 IF (po &gt; &#34;2&#34;)
  PEN 0.08
  FILL color: orange
  ELLIPSE x:1.48cm y:-0.4cm rx:0.23cm ry:0.23cm
  FONT &#34;Arial&#34; h:10.0pt color:black bold
  ATTR &#34;Priority Order&#34; x:1.48cm y:-0.6cm w:c h:t
 ENDIF

 AVAL set-default: &#34;no&#34; p: &#34;Priority&#34;
  IF (p = &#34;yes&#34;)
   FONT &#34;Times New Roman MT Extra Bold&#34; h:16.0pt color:red bold
   TEXT &#34;!&#34; x:1.22cm y:-1cm w:c h:t
 ENDIF
 </VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;State of fulfilment&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details&#34;
ATTR &#34;Priority&#34; ctrltype:check checked-value:&#34;yes&#34; unchecked-value:&#34;no&#34;
ATTR &#34;Priority Order&#34;
GROUP &#34;Availability&#34;
ATTR &#34;Available from&#34;
ATTR &#34;Available till&#34;
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="State of fulfilment" writeprotected="0"></ATTRIBUTE>
```

```
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<ATTRIBUTE name="Priority Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Resource' is a physical or informational entity needed to achieve some goal or to perform some
task.

This type assumes there are no open issues or questions concerning how the entity will be produced or provided.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Class cardinality" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">no@yes</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="External tool coupling" TYPE="String" INHERITED="YES"><VALUE></VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs(&#34;Is inside&#34;)),
cond
 (tokcnt(targets,&#34; &#34;)=0,&#34;black&#34;,
  (cond
   (tokcnt(targets,&#34; &#34;)=1,aval (VAL ctobjs(&#34;Is inside&#34;), &#34;Fontcolor&#34;),
  (
  set(tk,token(targets,0,&#34; &#34;)),
        set(t,VAL (copy(aval(VAL tk, &#34;Position&#34;),search(aval(VAL tk, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
  fortok(x,targets,&#34; &#34;,
     (
     set(c,VAL (copy(aval(VAL x, &#34;Position&#34;),search(aval(VAL x, &#34;Position&#34;),&#34;index&#34;,0)+6,-1))),
     cond(c&gt;=t,(set(res,x),set(t,c)),&#34;&#34;)
     )),
        aval (VAL res, &#34;Fontcolor&#34;)
  ))
 )
```

))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the needs and requirements to be fulfilled.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the respective entity.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State of fulfilment" TYPE="Enumeration" INHERITED="YES"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">satisfied@weakly satisfied@weakly denied@denied@unknown@conflict@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Evaluate how strong the relationship is. The attribute allows to set evaluation labels.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Priority" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
<FACET NAME="EnumerationDomain">yes@no</FACET>
<FACET NAME="MultiLineString">0</FACET>

<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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INHERITED="YES"><VALUE>Belief</VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="GraphRep" TYPE="Longstring" INHERITED="YES"><VALUE>GRAPHREP

AVAL set-default: "na" s: "State of fulfilment"
AVAL set-default: "inside" r: "Representation of name"
AVAL i: "Order"

FILL style:null
PEN style:null
CLIP_ELLIPSE x:-0.32cm y:-0.43cm rx:0.37cm ry:0.36cm
CLIP_ELLIPSE x:-0.809cm y:-0.019cm rx:0.38cm ry:0.38cm combine-mode:or
CLIP_ELLIPSE x:0cm y:-0.02cm rx:0.6cm ry:0.65cm combine-mode:or
CLIP_ELLIPSE x:-0.827cm y:0.47cm rx:0.35cm ry:0.32cm combine-mode:or
CLIP_ELLIPSE x:-0.4cm y:0.49cm rx:0.3cm ry:0.28cm combine-mode:or
CLIP_ELLIPSE x:0.2cm y:0.5cm rx:0.28cm ry:0.28cm combine-mode:or
CLIP_ELLIPSE x:0.6cm y:0.4cm rx:0.28cm ry:0.28cm combine-mode:or
CLIP_ELLIPSE x:0.38cm y:-0.6cm rx:0.34cm ry:0.28cm combine-mode:or
CLIP_ELLIPSE x:0.775cm y:-0.335cm rx:0.42cm ry:0.42cm combine-mode:or
CLIP_ELLIPSE x:0.89cm y:0.18cm rx:0.3cm ry:0.3cm combine-mode:or
CLIP_ELLIPSE x:0.6cm y:0cm rx:0.3cm ry:0.3cm combine-mode:or
GRADIENT_RECT x:-1.2cm y:-1cm w:2.8cm h:2cm style:updiag color1:white color2:palegreen
CLIP_OFF
PEN w:0.05cm color:green endcap:round join:round
COMPOUND 9
CURVE "t" fx:(0.6+.25*sin(t)) fy:(.5+.2*cos(t)) from:1.8 to:-1
CURVE "t" fx:(0.2+0.3*sin(t)) fy:(.5+.3*cos(t)) from:1.5 to:-1.5
CURVE "t" fx:(-0.4+.3*sin(t)) fy:(.5+.3*cos(t)) from:1.5 to:-1.2
CURVE "t" fx:(-0.8+.4*sin(t)) fy:(.5+.3*cos(t)) from:0.6 to:-2.4
CURVE "t" fx:(-0.8+.4*sin(t)) fy:(.4*cos(t)) from:6.6 to:2.4
CURVE "t" fx:(-0.3+.4*sin(t)) fy:(-0.4+.4*cos(t)) from:4.9 to:2
CURVE "t" fx:(0.4+0.4*sin(t)) fy:(-0.5+.4*cos(t)) from:4.5 to:2.2
CURVE "t" fx:(0.7+0.5*sin(t)) fy:(-0.3+.45*cos(t)) from:3.55 to:0.8
CURVE "t" fx:(0.9+0.3*sin(t)) fy:(.2+.3*cos(t)) from:2.9 to:-0.2

FONT h:10pt
AVAL set-default: "10" grad:"Font size"
FONT h:(PT grad)

IF (r = "inside")
  ATTR "Name" w:c:2.2cm h:c line-break: words
ELSE
  ATTR "Name" w:c:2.2cm h:t y:0.9cm line-break: words
ENDIF

    IF (s = "satisfied")
      PEN w:0.17cm color:lawngreen endcap:round join:round
      POLYLINE 3 x1:-1.5cm y1:-0.35cm x2:-1.4cm y2:-0.2cm x3:-1.1cm y3:-0.7cm
    ENDIF

    IF (s = "weakly satisfied")
      PEN w:0.1cm color:limegreen endcap:round join:round
      POLYLINE 3 x1:-1.5cm y1:-0.35cm x2:-1.4cm y2:-0.2cm x3:-1.1cm y3:-0.7cm
      PEN w:0.13cm color:limegreen endcap:round join:round
      POINT x:-1.25cm y:-0.2cm
    ENDIF

```
    IF (s = &#34;denied&#34;)
      PEN w:0.17cm color:red endcap:round join:round
      POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
      POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
    ENDIF

    IF (s = &#34;weakly denied&#34;)
      PEN w:0.1cm color:orange endcap:round join:round
      POLYLINE 5 x1:-1.51cm y1:-0.6cm x2:-1.52cm y2:-0.6cm x3:-1.42cm y3:-0.35cm x4:-1.32cm y4:-0.2cm x5:-1.28cm y5:-0.25cm
      POLYLINE 2 x1:-1.28cm y1:-0.6cm x2:-1.6cm y2:-0.2cm
      PEN w:0.13cm color:orange endcap:round join:round
      POINT x:-1.46cm y:-0.1cm
    ENDIF

    IF (s = &#34;unknown&#34;)
      PEN w:0.1cm color:$3f3f3f endcap:round join:round
      FONT &#34;Times New Roman MT Extra Bold&#34; h:20.0pt color:$3f3f3f
      TEXT &#34;?&#34; x:-1.45cm y:-0.8cm w:l h:t
      PEN w:0.13cm color:$3f3f3f endcap:round join:round
      POINT x:-1.5cm y:-0.6cm
    ENDIF

    IF (s = &#34;conflict&#34;)
      PEN w:0.03cm color:green endcap:square join:miter
      FILL color:yellow
      POLYGON 6 x1:-1.8cm y1:-0.5cm x2:-1.35cm y2:-0.3cm x3:-1.55cm y3:-0.2cm
            x4:-1.3cm y4:-0cm x5:-1.75cm y5:-0.2cm x6:-1.55cm y6:-0.3cm
    ENDIF

  IF (i &gt; &#34;0&#34;)
    FONT &#34;Arial&#34; h:10.0pt color:green bold
    ATTR &#34;Order&#34; x:-1.3cm y:0.2cm w:r h:t
  ENDIF

  AVAL po: &#34;Priority Order&#34;

    IF (po &gt; &#34;0&#34;)
      PEN 0.08
      FILL color: orange
      ELLIPSE x:1.5cm y:-0.42cm rx:0.23cm ry:0.23cm
      FONT &#34;Arial&#34; h:10.0pt color:black bold
      ATTR &#34;Priority Order&#34; x:1.495cm y:-0.62cm w:c h:t
    ENDIF

  AVAL set-default: &#34;no&#34; p: &#34;Priority&#34;
    IF (p = &#34;yes&#34;)
      FONT &#34;Times New Roman MT Extra Bold&#34; h:16.0pt color:red bold
      TEXT &#34;!&#34; x:1.255cm y:-1cm w:c h:t
  ENDIF
  </VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="AttrRep" TYPE="Longstring" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Name&#34;
ATTR &#34;Order&#34;
ATTR &#34;State of fulfilment&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34;
ATTR &#34;Comment&#34;
ATTR &#34;Representation of name&#34;
ATTR &#34;Font size&#34;
CHAPTER &#34;Further Details&#34;
ATTR &#34;Priority&#34; ctrltype:check checked-value:&#34;yes&#34; unchecked-value:&#34;no&#34;
ATTR &#34;Priority Order&#34;
GROUP &#34;Availability&#34;
ATTR &#34;Available from&#34;
ATTR &#34;Available till&#34;
```

ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="State of fulfilment" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Font size" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Further Details"><ATTRIBUTE name="Priority" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Priority Order" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available from" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Available till" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Belief' expresses assumptions, claims or beliefs of a strategic actor.

A belief is a condition about the world that the actor holds to be true.
The actual degree of truth - as indicated by evaluation labels (see attribute 'State of Satisfaction') - is influenced by contributions from other beliefs. A belief is distinct from a goal in that the actor has no explicit desire to make the specified condition become true.</VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</CLASSATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs("Is inside")),
cond
 (tokcnt(targets," ")=0,"black",
  (cond
   (tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
  (
  set(tk,token(targets,0," ")),
        set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
  fortok(x,targets," ",
    (
    set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),

cond(c>=t,(set(res,x),set(t,c)),"")
)),
aval (VAL res, "Fontcolor")
))
)
))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the needs and requirements to be fulfilled.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the respective entity.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Font size" TYPE="Enumeration" INHERITED="YES"><VALUE>8</VALUE>
<FACET NAME="EnumerationDomain">8@10@11@12@14@16@18@20@22@24@26@28@32@36@42@48@72</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the font size for the text that is displayed on the drawing area.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Order" TYPE="Integer" INHERITED="YES"><VALUE>0</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">This attribute can be set with the help of the 'Number objects' function, which numbers the objects of the Strategic Dependency and Strategic Rational Model.

This can be useful for example within the component 'Documentation', to ensure that all objects are documented in the required order.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of name" TYPE="Enumeration" INHERITED="YES"><VALUE>inside</VALUE>
<FACET NAME="EnumerationDomain">outside@inside</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select whether the object name should be displayed inside or outside of the object.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State of fulfilment" TYPE="Enumeration" INHERITED="YES"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">satisfied@weakly satisfied@weakly denied@denied@unknown@conflict@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Evaluate how strong the relationship is. The attribute allows to set evaluation labels.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available from" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor is earlierst available to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Available till" TYPE="Date" INHERITED="YES"><VALUE>2009:01:02</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Enter the date when the intentional actor will not be available any more to work on the topic.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>

<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<RELATIONCLASS NAME="Is inside" ID="ID10102"><FROM ID="ID10001"></FROM>
<TO ID="ID10084"></TO>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the object.

The comments will be used for documentation purposes.

Geben Sie einen Kommentar zur "kommuniziert"-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the object.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Bezeichnung" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Geben sie eine Bezeichnung ein. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Kommentar" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Geben Sie einen Kommentar zur "kommuniziert"-Beziehung ein.

Optional. Dient der Dokumentation.

Enter any comments about the object.

The comments will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>

</ATTRIBUTE>
<ATTRIBUTE NAME="Beschreibung" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.

Describe the characteristics of the object.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Language" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:fixed:(maval("Language"))</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK

#----------
LANG "en"
#----------
CHAPTER "Description"
ATTR "Name"
ATTR "Description" lines:5
ATTR "Comment" lines:5

CHAPTER "Deutsch"
GROUP "Kommuniziert"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
ENDGROUP

#----------
LANG "de"
#----------
CHAPTER "Beschreibung (deutsch)"
GROUP "Kommuniziert"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
ENDGROUP

CHAPTER "Beschreibung"
ATTR "Name"
ATTR "Description" lines:5
ATTR "Comment" lines:5
</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Deutsch"><ATTRIBUTE name="Bezeichnung" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Beschreibung" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Kommentar" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP
SHADOW mode:off
PEN w:0.02cm
EDGE
MIDDLE
AVAL sp:"Language"
IF (sp = "System")
  IF (_uilang = "en")
    SET sp:"English"
  ELSE
    SET sp:"German"

ENDIF
ENDIF

IF (sp = "English")
ATTR "Name" y:0.00cm w:c:2.00cm h:b
ELSE
ATTR "Bezeichnung" y:0.00cm w:c:2.00cm h:b
ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The relation "communicates" connects "actors" with "use cases".

It states that actors are involved in some form in the use cases to which a connection exists through a relation "communicates".

Die Beziehung "kommuniziert" verbindet 2 Objekte der Klassen "Akteur" und "Anwendungsfall" in beliebiger Kombination miteinander.

Sie besagt, daß zwischen diesen Akteuren und Anwendungsfällen irgendeine Interaktion stattfindet.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</RELATIONCLASS>
<RELATIONCLASS NAME="Value flow" ID="ID510406"><FROM ID="ID510286"></FROM>
<TO ID="ID510286"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP
AVAL sType:"Type"
AVAL sp:"Language"
IF (sp = "System")
IF (_uilang = "en")
SET sp:"English"
ELSE
SET sp:"German"
ENDIF
ENDIF

IF (sType = "Material flow")
SET sText:("M")
ELSIF (sType = "Control flow")
IF (sp = "English")
SET sText:("C")
ELSE
SET sText:("K")
ENDIF
ELSE
SET sText:("i")
ENDIF

AVAL mono:"_exprMonochrome_"
IF (mono = "yes")

```
  SET bMono:1
ELSE
  SET bMono:0
ENDIF

START
FILL color:black

POLYGON 3 x1:-.3cm y1:.1cm x2:0cm y2:0cm x3:-.3cm y3:-.1cm
END
FILL color:black
POLYGON 3 x1:-.3cm y1:.1cm x2:0cm y2:0cm x3:-.3cm y3:-.1cm
MIDDLE

IF (bMono)
  FILL color:white
  ELLIPSE x:0cm y:0cm rx:.17cm ry:.17cm
  FONT &#34;Times New Roman&#34; color:black h:8pt bold
  TEXT (sText) x:0.0cm y:0.01cm w:c h:c
ELSE
  FILL color:blue
  ELLIPSE x:0cm y:0cm rx:.17cm ry:.17cm
  FONT &#34;Times New Roman&#34; color:white h:8pt bold
  TEXT (sText) x:0.0cm y:0.01cm w:c h:c
ENDIF
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK

#----------------------
LANG &#34;en&#34;
#----------------------
CHAPTER &#34;Description&#34;
ATTR &#34;Type&#34;

#----------------------
LANG &#34;de&#34;
#----------------------
CHAPTER &#34;Beschreibung&#34;
ATTR &#34;Type&#34;</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Type" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="_exprMonochrome_" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(
aval(ctobj(), &#34;Monochrome view&#34;)
)</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Language" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:fixed:(maval(&#34;Language&#34;))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Type" TYPE="Enumeration" INHERITED="YES"><VALUE>Information flow</VALUE>
<FACET NAME="EnumerationDomain">Information flow@Material flow@Control flow</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the value flow type. You can select either information flow, material flow or control flow.

----------------------------------------------------------------------------------------------------------------------------------


Bitte w&auml;hlen Sie den Typ des Leistungsflusses. Es wird zwischen Informations-, Material- und Kontrollflu&szlig; unterschieden.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The value flow describes the value exchange between business processes. You can select either
information flow, material flow or control flow.
```

Der Leistungsfluß beschreibt den Leistungsaustausch zwischen Geschäftsprozessen. Es wird Informations-, Material- und Kontrollfluß unterschieden.
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</RELATIONCLASS>
<RELATIONCLASS NAME="Generalisation" ID="ID510416"><FROM ID="ID510286"></FROM>
<TO ID="ID510286"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Name" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the relation.

The comments will be used for documentation purposes.

Geben Sie einen Kommentar zur "Generalisierung"-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the object.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "Generalisierung"-Beziehung ein.

Dient der Dokumentation.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Bezeichnung" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Geben sie eine Bezeichnung ein. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Kommentar" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Geben Sie einen Kommentar zur "Generalisierung"-Beziehung ein.

Optional. Dient der Dokumentation.

Enter any comments about the relation.

The comments will be used for documentation purposes.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Beschreibung" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Geben Sie eine charakterisierende Beschreibung zur "Generalisierung"-Beziehung ein.

Dient der Dokumentation.

Describe the characteristics of the relation.

The description will be used for documentation purposes.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Language" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:fixed:(maval("Language"))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="State" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK

#----------
LANG "en"
#----------
CHAPTER "Description"
ATTR "Name"
ATTR "Description" lines:5
ATTR "Comment" lines:5

CHAPTER "Deutsch"
GROUP "Generalisierung"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
ENDGROUP

#----------
LANG "de"
#----------
CHAPTER "Beschreibung (deutsch)"
GROUP "Generalisierung"
ATTR "Bezeichnung"
ATTR "Beschreibung" lines:5
ATTR "Kommentar" lines:5
ENDGROUP

CHAPTER "Beschreibung"
ATTR "Name"
ATTR "Description" lines:5
ATTR "Comment" lines:5</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Name" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Deutsch"><ATTRIBUTE name="Bezeichnung" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Beschreibung" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Kommentar" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP

SHADOW mode:off
PEN w:0.02cm
EDGE
PEN style:solid w:0.02cm
MIDDLE
AVAL sp:"Language"
IF (sp = "System")
  IF (_uilang = "de")
    SET sp:"German"
  ELSE
    SET sp:"English"
  ENDIF
ENDIF

IF (sp = "English")
  ATTR "Name" x:0.00cm y:0.00cm w:c:2.00cm h:b
ELSE
  ATTR "Bezeichnung" x:0.00cm y:0.00cm w:c:2.00cm h:b
ENDIF
END
FILL color:white
POLYGON 3 x1:-.4cm y1:.2cm x2:0cm y2:0cm x3:-.4cm y3:-.2cm
</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AnimRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The relation "Generalisation" connects two objects of the class "use case" hierarchically.

It displays that one "use case" is a special case of another "use case".

The special case contains besides all characteristics of the general use cases.

The relation is used from the special "use case" to the general "use case".

Die Beziehung "Generalisierung" verbindet zwei Objekte der Klasse "Anwendungsfall" hierarchisch.

Sie zeigt an, daß ein Anwendungsfall ein Spezialfall eines anderen, allgemeineren Anwendungsfalls ist. Der Spezialfall beinhaltet alle Eigenschaften des allgemeinen Anwednungsfalls.

Der Konnektor wird dabei vom Spezialfall zum allgemeinen Anwendungsfall gezogen.

Die Beziehung "erweitert" wird also verwendet, wenn man eine Abweichung vom Normalfall als Ganzes beschreiben und ausführen möchte.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</RELATIONCLASS>
<RELATIONCLASS NAME="Dependency Link" ID="ID510432"><FROM ID="ID510320"></FROM>
<TO ID="ID510320"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP

```
 PEN w:0.05cm color:black bold endcap:round join:round
 EDGE start-trans:0.15cm end-trans:0.15cm bridge-radius: rx:0.27cm ry:0.27cm
 END
 PEN w:0.08cm color:dodgerblue endcap:round join:round
 FILL color:aliceblue
 POLYGON 9 x1:-.9cm y1:.2cm x2:-.8cm y2:0.185cm x3:-.75cm y3:0.155cm x4:-.7cm y4:0.125cm x5:-.65cm y5:0cm x6:-.7cm y6:-0.125cm x7:-.75cm y7:-0.155cm x8:-.8cm y8:-0.185cm
x9:-.9cm y9:-.2cm
 #POLYGON 9 x1:-.4cm y1:.2cm x2:-0.3cm y2:0.185cm x3:-.25cm y3:0.155cm x4:-0.2cm y4:0.125cm x5:-0.15cm y5:0cm x6:-0.2cm y6:-0.125cm x7:-.25cm y7:-0.155cm x8:-0.3cm y8:-
0.185cm x9:-.4cm y9:-.2cm

 MIDDLE
 AVAL set-default: &#34;valid&#34; dv: &#34;Dependency validity&#34;

  IF (dv = &#34;invalid&#34;)
    PEN w:0.08cm color: red endcap:round join:round
    LINE x1:-0.3cm y1:0.5cm x2:0.3cm y2:-0.5cm
  ENDIF

 PEN w:0.05cm color:black bold endcap:round join:round

 AVAL set-default: &#34;above/below&#34; r:&#34;Representation of indication&#34;
 AVAL set-default: &#34;committed&#34; s: &#34;Dependency strength&#34;
 AVAL set-default: &#34;start point&#34; rs: &#34;Representation of dependency strength&#34;


  IF (r = &#34;left/right&#34;)
    FONT &#34;Arial&#34; h:10.0pt
    ATTR &#34;Indication&#34; x:0.2cm  w:l:3cm h:c
  ELSE
    FONT &#34;Arial&#34; h:10.0pt
    ATTR &#34;Indication&#34; y:0.1cm w:c:3cm h:t
  ENDIF

    IF (s = &#34;open&#34;)
    FONT &#34;Arial&#34; bold h:12.0pt
      IF (rs = &#34;end point&#34;)
        END
        TEXT &#34;O&#34; x:-0.5cm y:-0.25cm w:c:0.2cm h:c
      ELSE
        START
        TEXT &#34;O&#34; x:-0.5cm y:0.25cm w:c:0.2cm h:c
      ENDIF
    ENDIF

    IF (s = &#34;critical&#34;)
    FONT &#34;Arial&#34; bold h:12.0pt
      IF (rs = &#34;end point&#34;)
        END
        TEXT &#34;X&#34; x:-0.5cm y:-0.25cm w:c:0.2cm h:c
      ELSE
        START
        TEXT &#34;X&#34; x:-0.5cm y:0.25cm w:c:0.2cm h:c
      ENDIF
    ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Indication&#34; lines:3
ATTR &#34;Dependency strength&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
GROUP &#34;View&#34;
ATTR &#34;Representation of indication&#34;
ATTR &#34;Representation of dependency strength&#34;
ENDGROUP
ATTR &#34;Modelling direction&#34;
#ATTR &#34;Modelling direction (Model)&#34;
#ATTR &#34;Change modelling direction (global)&#34; push-button no-param
CHAPTER &#34;Further Details&#34;
ATTR &#34;Dependency validity&#34;</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Indication" writeprotected="0"></ATTRIBUTE>
```

<ATTRIBUTE name="Dependency strength" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of indication" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of dependency strength" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Modelling direction" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Further Details"><ATTRIBUTE name="Dependency validity" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>In a 'goal dependency', the depender depends on the dependee to bring about a certain state of affairs in the world. The dependum is expressed as an assertion statement. The dependee is free to, and is expected to, make whatever decisions are necessary to achieve the goal (namely, the dependum). The depender does not care how the dependee goes about achieving the goal.

In a 'task dependency', the depender depends on the dependee to carry out an activity. The dependum names a task which specifies how the task is to be performed, but not why. The depender has already made decisions about how the task is to be performed. Note that a task description in i* is not meant to be a complete specification of the steps required to execute the task. It is a constraint imposed by the depender on the dependee. The dependee still has freedom of action within these constraints.

In a 'resource dependency', the depender depends on the dependee for the availability of an entity (physical or informational). By establishing this dependency, the depender gains the ability to use this entity as a resource. A resource is the finished product of some deliberation-action process. In a resource dependency, it is assumed that there are no open issues to be addressed or decisions to be made about the provision or achievement of the Resource entity.

In a 'softgoal dependency', a depender depends on the dependee to perform some task that meets a softgoal. A softgoal is similar to a goal except that the criteria of success are not sharply defined a priori. The meaning of the softgoal is elaborated in terms of the methods that are chosen in the course of pursuing the goal. The depender decides what constitutes satisfactory attainment of the goal, but does so with the benefit of the dependee's know how.

Based on all the concepts presented 'Strategic Dependencies', the modeler has the choice of using a Task, Resource, Goal, or Softgoal Dependency Link between actors in a model depending on the context of the design. Each case has different purpose and interpretation.
For example, using a Task Dependency Link between two actors means that one of these actors actually depends on the other actor to satisfy and perform the task in a particular way or with some freedom given a set of constraints. Therefore, the task is delegated to another actor with minimum or no freedom of choice. On the other hand, using a Goal or Softgoal Dependency Link means that the Depender actually gives more freedom in choosing which methods to employ to satisfy the dependency or accomplish the Goal or Softgoal.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the relation.

The comments will be used for documentation purposes.

Geben Sie einen Kommentar zur "kommuniziert"-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Dependency strength" TYPE="Enumeration" INHERITED="YES"><VALUE>committed</VALUE>
<FACET NAME="EnumerationDomain">committed@open@critical</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Vulnerability is implied with Dependency Link(s). The dependency link represents that the depender, by depending on the actor who is the dependee, is able to achieve goals that it was not able to achieve before, or not as well, or not as quick. However this results in the depender becoming vulnerable to the intentions of the dependee. This vulnerability is implied because the dependee may fail to accomplish the specified element.

The 'i* Method' distinguishes three degrees of strength for the dependency according to the level of vulnerability. These types of dependencies apply independently on each side of a dependency. They are described in the following:
* Open dependency (uncommitted): Not obtaining the dependum would affect the depender to some extent but not seriously. This dependency strength is represented by including an "O" on the appropriate side of the link.
* Committed dependency: Not obtaining the dependum would cause some action for achieving a goal to fail in the depender.
* Critical dependency: Not obtaining the dependum would cause all actions to fail that the depender has planned to achieve a goal. This dependency strength is represented by including an 'X' on the appropriate side of the link.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Dependency validity" TYPE="Enumeration" INHERITED="YES"><VALUE>valid</VALUE>
<FACET NAME="EnumerationDomain">valid@invalid</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">By this attribute it may be shown if a certain relationship between two intentional actors is now available any more. </FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>

<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the link.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.

</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Indication" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any free text which should be displayed with this link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of dependency strength" TYPE="Enumeration" INHERITED="YES"><VALUE>start point</VALUE>
<FACET NAME="EnumerationDomain">start point@end point</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if any possible icon set by the attribute 'Dependency Strength' should be displayed at the start or at the end of the link.
It is for graphical representation only.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of indication" TYPE="Enumeration" INHERITED="YES"><VALUE>above/below</VALUE>
<FACET NAME="EnumerationDomain">above/below@left/right</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute values specified by this attribute are displayed left (and right) from the edge middle point or beneath (and above) the edge middle point in the graphical representation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Modelling direction (Model)" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:fixed:(maval("Modelling direction"))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Modelling direction" TYPE="Enumeration" INHERITED="YES"><VALUE>from left to right</VALUE>
<FACET NAME="EnumerationDomain">from left to right@from right to left</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Change modelling direction (global)" TYPE="Programcall" INHERITED="YES"><VALUE>Change modelling direction (global)</VALUE>
<FACET NAME="EnumerationDomain">ITEM "Change modelling direction (global)"
TOGGLE_MOD_DIRECTION</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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</RELATIONCLASS>
<RELATIONCLASS NAME="has Note" ID="ID510449"><FROM ID="ID510320"></FROM>
<TO ID="ID510289"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP
PEN w:0.02cm color:lightyellow outline style:dot
EDGE</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>

<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<ATTRREP></ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</RELATIONCLASS>
<RELATIONCLASS NAME="Association Link" ID="ID510455"><FROM ID="ID510323"></FROM>
<TO ID="ID510323"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP rounded:0.1cm
SHADOW off
END
PEN w:0.05cm color:black endcap:round join:round
POLYLINE 3 x1:-.3cm y1:.1cm x2:0cm y2:0cm x3:-.3cm y3:-.1cm
EDGE start-trans:0.15cm end-trans:0.15cm

AVAL set-default: "above/below" r: "Representation of indication"
AVAL set-default: "na" al: "Type of association link"
AVAL set-default: "left/right" rl: "Representation of link type"

MIDDLE
PEN style:null
FILL color:aliceblue

IF (rl = "top/down")
FONT "Arial" bold h:10.0pt line-orientation:90
ELSE
FONT "Arial" bold h:10.0pt
ENDIF

IF (al = "Is-part-of (Part)Association")
IF (rl = "top/down")
RECTANGLE x:-0.3cm y:-0.9cm w:0.5cm h:1.6cm
TEXT "Is-part-of" x:-0.23cm y:0.65cm
ELSE
RECTANGLE x:-0.9cm y:-0.3cm w:1.65cm h:0.5cm
TEXT "Is-part-of" x:-0.8cm y:-0.23cm
ENDIF
ENDIF

IF (al = "ISA Association")
IF (rl = "top/down")
RECTANGLE x:-0.3cm y:-0.4cm w:0.5cm h:0.8cm
TEXT "ISA" x:-0.23cm y:0.3cm
ELSE
RECTANGLE x:-0.4cm y:-0.3cm w:0.8cm h:0.5cm
TEXT "ISA" x:-0.3cm y:-0.23cm
ENDIF
ENDIF
IF (al = "Plays Association")
IF (rl = "top/down")
RECTANGLE x:-0.3cm y:-0.55cm w:0.5cm h:1.1cm
TEXT "Plays" x:-0.23cm y:0.45cm
ELSE
RECTANGLE x:-0.55cm y:-0.3cm w:1.1cm h:0.5cm
TEXT "Plays" x:-0.45cm y:-0.23cm
ENDIF
ENDIF

```
  IF (al = &#34;Covers Association&#34;)
    IF (rl = &#34;top/down&#34;)
      RECTANGLE x:-0.3cm y:-0.7cm w:0.5cm h:1.3cm
      TEXT &#34;Covers&#34; x:-0.23cm y:0.6cm
    ELSE
      RECTANGLE x:-0.7cm y:-0.3cm w:1.3cm h:0.5cm
      TEXT &#34;Covers&#34; x:-0.6cm y:-0.23cm
    ENDIF
  ENDIF
  IF (al = &#34;Occupies Association&#34;)
    IF (rl = &#34;top/down&#34;)
      RECTANGLE x:-0.3cm y:-0.90cm w:0.5cm h:1.7cm
      TEXT &#34;Occupies&#34; x:-0.23cm y:0.8cm
    ELSE
      RECTANGLE x:-0.9cm y:-0.3cm w:1.7cm h:0.5cm
      TEXT &#34;Occupies&#34; x:-0.8cm y:-0.23cm
    ENDIF
  ENDIF
  IF (al = &#34;INS Association&#34;)
    IF (rl = &#34;top/down&#34;)
      RECTANGLE x:-0.3cm y:-0.4cm w:0.5cm h:0.8cm
      TEXT &#34;INS&#34; x:-0.23cm y:0.3cm
    ELSE
      RECTANGLE x:-0.4cm y:-0.3cm w:0.8cm h:0.5cm
      TEXT &#34;INS&#34; x:-0.3cm y:-0.23cm
    ENDIF
  ENDIF

 IF (r = &#34;above/below&#34;)
   FONT &#34;Arial&#34; h:10.0pt
   ATTR &#34;Indication&#34; x:0.8cm  w:l:3cm h:c
 ELSE
   FONT &#34;Arial&#34; h:10.0pt
   ATTR &#34;Indication&#34; y:0.3cm w:c:3cm h:t
 ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Indication&#34; lines:3
ATTR &#34;Type of association link&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
GROUP &#34;View&#34;
ATTR &#34;Representation of indication&#34;
ATTR &#34;Representation of link type&#34;
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Indication" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Type of association link" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of indication" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of link type" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The relationships between actors are described by graphical association links between actors.
```


Is-part-of (Part)Association
Roles, positions, and agents can each have subparts. Aggregate actors are not compositional with respect to intentionality. Each actor, regardless of whether it has parts, or is part of a larger whole, is taken to be intentional. There can be intentional dependencies between the whole and its parts, e.g., a dependency by the hole on its parts to maintain unity.

ISA Association
The isa association represents a generalization, with an actor being a specialized case of another actor. Both ISA and Is-part-of can be applied between any two instances of the same type of actor.

Plays Association
The plays association is used between an agent and a role, with an agent playing a role. The identity of the agent who plays a role should have no effect on the responsibilities of that role, and similarly, aspects of an agent should be unaffected by the roles it plays.

Covers Association
The covers association is used to describe the relationship between a position and the roles that it covers.

Occupies Association
The occupies association is used to show that an agent occupies a role, meaning that it plays all of the roles that are covered by the position.

INS Association
The ins association, representing instantiation, is used to represent a specific instance of a more general entity. An agent is an instantiation of another agent.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the relation.

The comments will be used for documentation purposes.

Geben Sie einen Kommentar zur "kommuniziert"-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the link.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Indication" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any free text which should be displayed with this link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of indication" TYPE="Enumeration" INHERITED="YES"><VALUE>above/below</VALUE>
<FACET NAME="EnumerationDomain">above/below@left/right</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute values specified by this attribute are displayed left (and right) from the edge middle point or beneath (and above) the edge middle point in the graphical representation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of link type" TYPE="Enumeration" INHERITED="YES"><VALUE>left/right</VALUE>
<FACET NAME="EnumerationDomain">left/right@top/down</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute value specified by the attribute 'Type of Association Link' is displayed in a horizontal or vertical way on the link.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Type of association link" TYPE="Enumeration" INHERITED="YES"><VALUE>na</VALUE>
<FACET NAME="EnumerationDomain">Is-part-of (Part)Association@ISA Association@Plays Association@Covers Association@Occupies Association@INS Association@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select of which type the link is. The type will be displayed on the link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>

```
</ATTRIBUTE>
</RELATIONCLASS>
<RELATIONCLASS NAME="Means-end Link" ID="ID510468"><FROM ID="ID510362"></FROM>
<TO ID="ID510362"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP rounded:0.1cm
 SHADOW off
 PEN w:0.05cm color:black endcap:round join:round
 EDGE start-trans:0.15cm end-trans:0.15cm
 END
 FILL color:&#34;#EAFEEA&#34;
 PEN w:0.05cm color:green
 POLYGON 3 x1:-.4cm y1:.2cm x2:0cm y2:0cm x3:-.4cm y3:-.2cm

 MIDDLE
 AVAL set-default: &#34;above/below&#34; r: &#34;Representation of indication&#34;

  IF (r = &#34;left/right&#34;)
    FONT &#34;Arial&#34; h:10.0pt
    ATTR &#34;Indication&#34; x:0.15cm  w:l:3cm h:c
  ELSE
    FONT &#34;Arial&#34; h:10.0pt
    ATTR &#34;Indication&#34; y:0.1cm w:c:3cm h:t
  ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;Description&#34;
ATTR &#34;Indication&#34; lines:3
ATTR &#34;Description&#34; lines:5
ATTR &#34;Comment&#34; lines:5
GROUP &#34;View&#34;
ATTR &#34;Representation of indication&#34;
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Indication" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of indication" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The 'Means-end' shows a particular way (typically a task) to achieve a goal. It provides an understanding 'why' an actor would engage in some tasks, persue a goal, need a resource or want a soft goal.

It indicates a relationship between an end, and a means for attaining it. The 'means' is expressed in the form of a task, since the notion of task embodies how to do something, with the 'end' is expressed as a goal.

In the graphical notation, the arrowhead points from the means to the end.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the relation.

The comments will be used for documentation purposes.

----------

Geben Sie einen Kommentar zur &#34;kommuniziert&#34;-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
```

<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the link.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Indication" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any free text which should be displayed with this link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of indication" TYPE="Enumeration" INHERITED="YES"><VALUE>above/below</VALUE>
<FACET NAME="EnumerationDomain">above/below@left/right</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute values specified by this attribute are displayed left (and right) from the edge middle point or beneath (and above) the edge middle point in the graphical representation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_lst_relevantVariants" TYPE="Longstring" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</RELATIONCLASS>
<RELATIONCLASS NAME="Decomposition Link" ID="ID510479"><FROM ID="ID510362"></FROM>
<TO ID="ID510362"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP rounded:0.1cm
SHADOW off
PEN w:0.05cm color:black endcap:round join:round
EDGE start-trans:0.15cm end-trans:0.15cm
PEN w:0.08cm color:green
END
LINE x1:-.4cm y1:.2cm x2:-.4cm y2:-0.2cm

MIDDLE
PEN w:0.05cm color:black endcap:round join:round
AVAL set-default: "above/below" r: "Representation of indication"

IF (r = "left/right")
FONT "Arial" h:10.0pt
ATTR "Indication" x:0.15cm w:l:3cm h:c
ELSE
FONT "Arial" h:10.0pt
ATTR "Indication" y:0.1cm w:c:3cm h:t
ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER "Description"
ATTR "Indication" lines:3
ATTR "Description" lines:5
ATTR "Comment" lines:5
GROUP "View"
ATTR "Representation of indication"
ENDGROUP</VALUE>

<ATTRREP><CHAPTER name="Description"><ATTRIBUTE name="Indication" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Comment" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Representation of indication" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
</ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>The 'Decomposition Link' shows how an intentional element (typically a task) is decomposed into sub-elements, which can include goals, tasks, resources, and soft goals. It provides a hierarchical description of intentional elements that make up a routine.

A task element is linked to its component nodes by decomposition links. A task can be decomposed into four types of elements: a subgoal, a subtask, a resource, and/or a softgoal - corresponding to the four types of elements. The task can be decomposed into one to many of these elements. These elements can also be part of dependency links in Strategic Dependency model(s) when the reasoning goes beyond an actor's boundary.

* Task-Goal Decomposition: Subgoal.
In this kind of decomposition it is not specified how the goal is to be achieved, allowing alternatives to be considered.
* Task-Task Decomposition: Subtask.
When a task is specified as a subcomponent of a (higher) task, this restricts the higher task to that particular course of action.
* Task-Resource Decomposition: Resource
For: The entity represented by the resource is not considered problematic by the actor. The main concern is whether it is available (and from whom, if it is an external dependency).
* Task-Softgoal Decomposition: Softgoal
For: When a softgoal is a component in a task decomposition, it serves as a quality goal for that task, and thus guides (or restricts) the selection among alternatives in further decomposition of that and other tasks.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the relation.

The comments will be used for documentation purposes.

Geben Sie einen Kommentar zur "kommuniziert"-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the link.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Indication" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any free text which should be displayed with this link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of indication" TYPE="Enumeration" INHERITED="YES"><VALUE>above/below</VALUE>
<FACET NAME="EnumerationDomain">above/below@left/right</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute values specified by this attribute are displayed left (and right) from the edge middle point or beneath (and above) the edge middle point in the graphical representation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>

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<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
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<RELATIONCLASS NAME="Contribution/Correlation Link" ID="ID510490"><FROM ID="ID510362"></FROM>
<TO ID="ID510362"></TO>
<ATTRIBUTE NAME="Positions" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP rounded:0.1cm
 SHADOW off

 AVAL set-default: &#34;solid&#34; ll: &#34;Link lines&#34;

  IF (ll = &#34;dashed&#34;)
    PEN w:0.05cm style:dashdot endcap:flat join:round
  ELSE
    PEN w:0.05cm color: black endcap:round join:round
  ENDIF

 EDGE start-trans:0.15cm end-trans:0.15cm
 END
 PEN w:0.05cm color: black endcap:round join:round
 POLYLINE 3 x1:-.3cm y1:.1cm x2:0cm y2:0cm x3:-.3cm y3:-.1cm

 AVAL set-default: &#34;above/below&#34; r:&#34;Representation of indication&#34;
 AVAL set-default: &#34;Help&#34; al: &#34;Type of contribution/correlation link&#34;
 AVAL set-default: &#34;left/right&#34; rl: &#34;Representation of link type&#34;

 MIDDLE
 PEN style:null
 FILL color:&#34;#EAFEEA&#34;

 IF (rl = &#34;top/down&#34;)
   FONT &#34;Arial&#34; bold h:10.0pt line-orientation:90
 ELSE
   FONT &#34;Arial&#34; bold h:10.0pt
 ENDIF

 IF (al = &#34;Make&#34;)
   IF (rl = &#34;top/down&#34;)
     RECTANGLE x:-0.3cm y:-0.55cm w:0.5cm h:1.6cm
     TEXT &#34;Make ++&#34; x:-0.23cm y:0.95cm
   ELSE
     RECTANGLE x:-0.55cm y:-0.3cm w:1.6cm h:0.5cm
     TEXT &#34;Make ++&#34; x:-0.45cm y:-0.23cm
   ENDIF
 ENDIF
 IF (al = &#34;Some+&#34;)
   IF (rl = &#34;top/down&#34;)
     RECTANGLE x:-0.3cm y:-0.75cm w:0.5cm h:1.6cm
     TEXT &#34;Some +&#34; x:-0.23cm y:0.62cm
   ELSE
     RECTANGLE x:-0.75cm y:-0.3cm w:1.6cm h:0.5cm
     TEXT &#34;Some +&#34; x:-0.62cm y:-0.23cm
   ENDIF
 ENDIF
 IF (al = &#34;Some-&#34;)
   IF (rl = &#34;top/down&#34;)
     RECTANGLE x:-0.3cm y:-0.75cm w:0.5cm h:1.6cm
     TEXT &#34;Some -&#34; x:-0.23cm y:0.62cm
   ELSE
     RECTANGLE x:-0.75cm y:-0.3cm w:1.6cm h:0.5cm
     TEXT &#34;Some -&#34; x:-0.62cm y:-0.23cm
   ENDIF
 ENDIF
 IF (al = &#34;Help&#34;)
   IF (rl = &#34;top/down&#34;)
     RECTANGLE x:-0.3cm y:-0.5cm w:0.5cm h:1.2cm
     TEXT &#34;Help +&#34; x:-0.23cm y:0.7cm
   ELSE
```

```
    RECTANGLE x:-0.5cm y:-0.3cm w:1.2cm h:0.5cm
    TEXT &#34;Help +&#34; x:-0.4cm y:-0.23cm
   ENDIF
  ENDIF
  IF (al = &#34;Break&#34;)
   IF (rl = &#34;top/down&#34;)
    RECTANGLE x:-0.3cm y:-0.55cm w:0.5cm h:1.55cm
    TEXT &#34;Break --&#34; x:-0.23cm y:0.85cm
   ELSE
    RECTANGLE x:-0.65cm y:-0.3cm w:1.55cm h:0.5cm
    TEXT &#34;Break --&#34; x:-0.55cm y:-0.23cm
   ENDIF
  ENDIF
  IF (al = &#34;Hurt&#34;)
   IF (rl = &#34;top/down&#34;)
    RECTANGLE x:-0.3cm y:-0.45cm w:0.5cm h:1.1cm
    TEXT &#34;Hurt -&#34; x:-0.23cm y:0.55cm
   ELSE
    RECTANGLE x:-0.45cm y:-0.3cm w:1.1cm h:0.5cm
    TEXT &#34;Hurt -&#34; x:-0.35cm y:-0.23cm
   ENDIF
  ENDIF
  IF (al = &#34;Unknown&#34;)
   IF (rl = &#34;top/down&#34;)
    RECTANGLE x:-0.3cm y:-0.9cm w:0.5cm h:2cm
    TEXT &#34;Unknown ?&#34; x:-0.23cm y:1cm
   ELSE
    RECTANGLE x:-0.9cm y:-0.3cm w:2cm h:0.5cm
    TEXT &#34;Unknown ?&#34; x:-0.84cm y:-0.23cm
   ENDIF
  ENDIF
  IF (al = &#34;Equal&#34;)
   IF (rl = &#34;top/down&#34;)
    RECTANGLE x:-0.3cm y:-0.6cm w:0.5cm h:1.4cm
    TEXT &#34;Equal =&#34; x:-0.23cm y:0.7cm
   ELSE
    RECTANGLE x:-0.6cm y:-0.3cm w:1.4cm h:0.5cm
    TEXT &#34;Equal =&#34; x:-0.48cm y:-0.23cm
   ENDIF
  ENDIF
  IF (al = &#34;And&#34;)
   IF (rl = &#34;top/down&#34;)
    RECTANGLE x:-0.3cm y:-0.45cm w:0.5cm h:0.9cm
    TEXT &#34;And&#34; x:-0.23cm y:0.33cm
   ELSE
    RECTANGLE x:-0.45cm y:-0.3cm w:0.9cm h:0.5cm
    TEXT &#34;And&#34; x:-0.33cm y:-0.23cm
   ENDIF
  ENDIF
  IF (al = &#34;Or&#34;)
   IF (rl = &#34;top/down&#34;)
    RECTANGLE x:-0.3cm y:-0.3cm w:0.5cm h:0.6cm
    TEXT &#34;Or&#34; x:-0.23cm y:0.2cm
   ELSE
    RECTANGLE x:-0.3cm y:-0.3cm w:0.6cm h:0.5cm
    TEXT &#34;Or&#34; x:-0.2cm y:-0.23cm
   ENDIF
  ENDIF

   FONT &#34;Arial&#34; h:10.0pt
   IF (r = &#34;above/below&#34;)
    ATTR &#34;Indication&#34; y:0.3cm w:c:3cm h:t
   ELSE
    ATTR &#34;Indication&#34; x:0.8cm  w:l:3cm h:c
   ENDIF</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE>NOTEBOOK
CHAPTER &#34;General&#34;
ATTR &#34;Indication&#34; lines:3
ATTR &#34;Type of contribution/correlation link&#34;
ATTR &#34;Link lines&#34;
CHAPTER &#34;Description&#34;
ATTR &#34;Description&#34; lines:5
```

ATTR "Comment" lines:5
GROUP "View"
ATTR "Representation of indication"
ATTR "Representation of link type"
ENDGROUP</VALUE>
<ATTRREP><CHAPTER name="General"><ATTRIBUTE name="Indication" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Type of contribution/correlation link" writeprotected="0"></ATTRIBUTE>
<ATTRIBUTE name="Link lines" writeprotected="0"></ATTRIBUTE>
</CHAPTER>
<CHAPTER name="Description"><ATTRIBUTE name="Description" writeprotected="0"></ATTRIBUTE>
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</CHAPTER>
</ATTRREP>
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<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="HlpTxt" TYPE="String" INHERITED="YES"><VALUE>A 'Contribution Link' shows a contribution toward satisfying a soft goal, typically from a task or another soft goal.

Any of these Contribution Links can be used to link any of the elements to a Softgoal to model the way any of these Elements contributes to the satisfaction or fulfillment of the Softgoal.

Make
A positive contribution strong enough to satisfice a softgoal.

Some+
Either a make or a help contribution, a positive contribution whose strength is unknown.

Help
A partial positive contribution, not sufficient by itself to satisfice the softgoal.

Unknown
A contribution to a softgoal whose polarity is unknown.

Break
A negative contribution sufficient enough to deny a softgoal.

Some-
Either a break or a hurt contribution, a negative contribution whose strength is unknown.

Hurt
A partial negative contribution, not sufficient by itself to deny the softgoal.

And
The parent is satisficed if all of the offspring are satisficed.

Or
The parent is satisficed if any of the offspring are satisficed.</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Comment" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any comments about the relation.

The comments will be used for documentation purposes.

Geben Sie einen Kommentar zur "kommuniziert"-Beziehung ein.

Optional. Dient der Dokumentation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Description" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Describe the characteristics of the link.

The description will be used for documentation purposes.

Geben Sie eine charakterisierende Beschreibung zur "kommuniziert"-Beziehung ein.

Dient der Dokumentation.
</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Indication" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Enter any free text which should be displayed with this link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of indication" TYPE="Enumeration" INHERITED="YES"><VALUE>above/below</VALUE>
<FACET NAME="EnumerationDomain">above/below@left/right</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute values specified by this attribute are displayed left (and right) from the edge middle point or beneath (and above) the edge middle point in the graphical representation.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Link lines" TYPE="Enumeration" INHERITED="YES"><VALUE>solid</VALUE>
<FACET NAME="EnumerationDomain">solid@dashed</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select the type of graphical representation for the link.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Representation of link type" TYPE="Enumeration" INHERITED="YES"><VALUE>left/right</VALUE>
<FACET NAME="EnumerationDomain">left/right@top/down</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Define if the attribute value specified by the attribute 'Type of Association Link' is displayed in a horizontal or vertical way on the link.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Type of contribution/correlation link" TYPE="Enumeration" INHERITED="YES"><VALUE>Help</VALUE>
<FACET NAME="EnumerationDomain">Make@Some+@Some-@Help@Break@Hurt@Unknown@Equal@And@Or@na</FACET>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText">Select of which type the link is. The type will be displayed on the link in the model.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
<FACET NAME="AttributeNumericDomain"></FACET>
</ATTRIBUTE>
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<TO ID="ID10001"></TO>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="GraphRep" TYPE="String" INHERITED="YES"><VALUE>GRAPHREP rounded:0.05cm
FILL color:lightgray
SHADOW mode:off
PEN w:0.02cm color:$727272
EDGE
 START
 END
 POLYGON 3 x1:-0.2cm y1:0.11cm x2:0cm y2:0cm
 x3:-0.2cm y3:-0.11cm</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="AttrRep" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<ATTRREP></ATTRREP>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="vm_b_isVisible" TYPE="Integer" INHERITED="YES"><VALUE>1</VALUE>

<FACET NAME="MultiLineString">0</FACET>
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</ATTRIBUTE>
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<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
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<LIBRARYATTRIBUTE NAME="Author" TYPE="Longstring">Admin</LIBRARYATTRIBUTE>
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<LIBRARYATTRIBUTE NAME="Modi" TYPE="Longstring">
##
MODELTYPE "Working Environment Model" from:none plural:"Working Environment Models" default-access:blocked
MODE "Documentation" from:all no-modeling
##</LIBRARYATTRIBUTE>
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PAGE w:p h:p</LIBRARYATTRIBUTE>
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<LIBRARYATTRIBUTE NAME="Simtext" TYPE="Longstring"></LIBRARYATTRIBUTE>
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<LIBRARYATTRIBUTE NAME="Numbering" TYPE="Enumeration">numeric</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Graphical representation" TYPE="Longstring">GRAPHREP
FILL color:powderblue
RECTANGLE x:-.3cm y:-.3cm w:.6cm h:.6cm
</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Days per year" TYPE="Double">0,000000</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Hours per day" TYPE="Double">0,000000</LIBRARYATTRIBUTE>
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<LIBRARYATTRIBUTE NAME="CCC default setting" TYPE="Longstring"></LIBRARYATTRIBUTE>
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<LIBRARYATTRIBUTE NAME="Variable check" TYPE="Enumeration">on</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Configuration of documentation" TYPE="Longstring"></LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Default settings" TYPE="Longstring">GRID snap:on visible:off w:0.5cm h:0.5cm</LIBRARYATTRIBUTE>
<LIBRARYATTRIBUTE NAME="Predefined queries" TYPE="Longstring"></LIBRARYATTRIBUTE>
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<CLASS NAME="WE-Agent" ID="ID510536" METACLASS="__WE_agent__"><CLASSATTRIBUTE NAME="ClassName" TYPE="String" INHERITED="YES"><VALUE>WE-Agent</VALUE>
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<CLASSATTRIBUTE NAME="Monochrome view" TYPE="Enumeration" INHERITED="YES"><VALUE>no</VALUE>
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</ATTRIBUTE>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
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<FACET NAME="EnumerationDomain">yes@no</FACET>

<FACET NAME="MultiLineString">0</FACET>
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<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="Information text" TYPE="String" INHERITED="YES"><VALUE></VALUE>
<FACET NAME="MultiLineString">1</FACET>
<FACET NAME="AttributeHelpText">Help not available.</FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
<ATTRIBUTE NAME="fontcolor" TYPE="Expression" INHERITED="YES"><VALUE>EXPR type:string expr:(set(targets, ctobjs("Is inside")),
cond
(tokcnt(targets," ")=0,"black",
(cond
(tokcnt(targets," ")=1,aval (VAL ctobjs("Is inside"), "Fontcolor"),
(
set(tk,token(targets,0," ")),
set(t,VAL (copy(aval(VAL tk, "Position"),search(aval(VAL tk, "Position"),"index",0)+6,-1))),
fortok(x,targets," ",
(
set(c,VAL (copy(aval(VAL x, "Position"),search(aval(VAL x, "Position"),"index",0)+6,-1))),
cond(c>=t,(set(res,x),set(t,c)),"")
)),
aval (VAL res, "Fontcolor")
))
)
))</VALUE>
<FACET NAME="MultiLineString">0</FACET>
<FACET NAME="AttributeHelpText"></FACET>
<FACET NAME="AttributeRegularExpression"></FACET>
</ATTRIBUTE>
</CLASS>
</LIBRARY>
</ADO>

End of Code