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TOOLBUS Interface for ARIS and System Architect

Version 2

Data Sheet

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Function

The TOOLBUS Interface for ARIS and System Architect enables the bi-directional exchange of Entity-Relationship Data Models and Function Trees (Process Decompositions) between the ARIS Toolset (or ARIS Business Architect) and Telelogic System Architect.

Model Mapping

The TOOLBUS Interface for the ARIS Toolset and System Architect supports the following ARIS models:

- IE Data Model
- eERM (extended Entity-Relationship Model)
- SAP-SERM (Structured Entity-Relationship Model)
- Attribute Allocation Diagram
- Function Tree

To achieve an optimal mapping of models between both tools it is highly recommended to use the "IE Data Model" in the ARIS Toolset, which uses standard Information Engineering technology.

Statement of Direction: The extension of the TOOLBUS interface for exchanging eEPC Diagrams and Business Process Diagrams (BPMN Diagrams) between ARIS and System Architect is planned.

Object Type Mapping

<u>ARIS</u>	<u>System Architect</u>
Diagram	<==> Diagram
Entity Type	<==> Entity
Relationship Type	<==> Relationship
ERM Attribute	<==> Attribute
ERM Domain	<==> Data Element, Domain
Generalization/ Specialization	<==> Entity Subtype
Function	<==> Process
Function Tree	<==> Process Decomposition

The layout of the Entity Relationship Diagrams is reproduced in both directions, if "IE Data Models" are described in the ARIS Toolset. If eERM or SAP-SERM is used in ARIS the TOOLBUS programs calculate default positions for the placement of Entities in System Architect Entity Relation diagrams, and vice versa.

Migration Process

In order to migrate a model from the ARIS Toolset to System Architect, first all or single data model diagrams are selected and exported to a XML file (AML file). The ARIS XML export file is converted to a standard interface file called "TOOLBUS". Then a model conversion is done based on the TOOLBUS file in order to compensate the differences of the information models of the ARIS Toolset and System Architect, and a modified TOOLBUS file is generated. The TOOLBUS interface programs update the target System Architect Encyclopedia by the API functions of System Architect, using the modified TOOLBUS file as input.

In order to migrate a Data Model from System Architect to the ARIS Toolset a Project Model is exported to a TOOLBUS file by a TOOLBUS program, which uses the API functions of System Architect. Then a model conversion is done based on the TOOLBUS file in order to compensate the differences of the information models of System Architect and the ARIS Toolset, and a modified TOOLBUS file is generated. The TOOLBUS interface programs generate an ARIS XML import file (AML file) from the modified TOOLBUS file.

Platform

The TOOLBUS Interface for the ARIS Toolset / ARIS Business Architect and Telelogic System Architect requires Microsoft Windows NT/2000/XP/Vista. The interface supports ARIS Toolset Versions 6.2 and 7, and System Architect Versions 6, 7, 8, 9, 10 and 11.