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TOOLBUS Interface for Oracle Designer and PowerDesigner

Version 5.30

Data Sheet

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The TOOLBUS Interface for Oracle Designer and PowerDesigner enables the migration of Entity-Relationship Models from Oracle Designer to Conceptual Data Models (CDM) or Logical Data Models (LDM) in Sybase PowerDesigner, and of Server Models from Oracle Designer to Physical Data Models (PDM) in PowerDesigner, and vice versa. The migration of Process Models and Function Hierarchy Diagrams from Oracle Designer to BPMN 2.0 Diagrams and Process Hierarchy Diagrams in Business Process Models (BPM) is also supported.

Conceptual Data Models: Entities, Relationships, Attributes, Identifiers, Domains and Value Sets are bi-directionally converted with their properties and textual descriptions.

Logical Data Models: Entities, Relationships, Attributes, Identifiers, Domains and Value Sets are converted from Oracle Designer to PowerDesigner with their properties and textual descriptions (unidirectional interface), and Foreign Key Attributes are generated.

Physical Data Models: Tables, Columns, Foreign Keys, Indexes, Databases and Tablespaces are bi-directionally converted with their properties and textual descriptions. The associations between Physical and Logical Objects ("Version Info" of PowerDesigner) are also converted.

Process Models and Function Hierarchy Diagrams: Business Functions are converted with their properties and textual descriptions, and the sequence flows and sub-process hierarchies are also migrated.

Diagrams: Entity-Relationship, Server Model, Process Model and Function Hierarchy Diagrams are migrated from Oracle Designer to PowerDesigner with the included objects (Entities, Tables, Relationships, Business Functions, Process Steps, Decision Points, Flows). The PowerDesigner diagrams are arranged in a standard layout, as reading the position of the symbols on the diagrams is not supported by the API functions of Oracle Designer. The layout of the generated diagrams can be enhanced by the Auto-Layout functions of PowerDesigner.

External References: References to objects (Entities, Tables, Domains, etc.) contained in other Application Systems can be mapped to Shortcuts or Replicated Objects in PowerDesigner.

User Defined Properties: The TOOLBUS interface offers 3 options for the migration of User Defined Properties (UDPs) from Oracle Designer to PowerDesigner:

1. UDPs can be stored in Annotation text (<name>: <value>) in PowerDesigner.
2. Extended Model Definitions (.xem files) can be generated automatically for the UDPs defined for Entity-Relationship Models and Server Models in Oracle Designer.
3. Existing Extended Model Definitions (.xem files) can be used.

Migration Process: In order to migrate Entity-Relationship and Server Model from Oracle Designer to PowerDesigner, the TOOLBUS interface exports Application Systems from Oracle Designer into an internal TOOLBUS file, using the Oracle Designer API (Application Programmatic Interface). From the TOOLBUS file CDM, LDM and PDM files are generated for PowerDesigner. In order to migrate Conceptual and Physical Data Models from PowerDesigner to Entity-Relationship and Server Models for Oracle Designer, the TOOLBUS interface parses the PowerDesigner CDM (XML) and PDM (XML) files, and it generates an intermediate TOOLBUS file. Then the TOOLBUS interface loads a new Application System, or updates the latest version of an existing Application System in Oracle Designer by the functions provided by the API of Oracle Designer, using the TOOLBUS file as input.

Platform: The TOOLBUS Interface for Oracle Designer and PowerDesigner requires Windows XP/Vista/7, and it supports Oracle Designer 6i to 10g, and Sybase PowerDesigner 12.5 to 16.0.