

ENGINEERING
DataXpress

DXL601 OrCAD SDT/386+ to EDIF Schematic Translator

The DXL601 OrCAD SDT/386+ to EDIF schematic translator is one of a series of optimized data links that is part of the DataXpress Integrator product line. The DataXpress Integrator was developed as a solution to the problem of moving design data from one EDA vendor's tools to another's.

The DXL601 schematic translator allows OrCAD Schematic Design Tools (SDT) users to translate their schematic design data to the Engineering DataXpress database called EDI. Data from the EDI database can then be output as an EDIF data file.

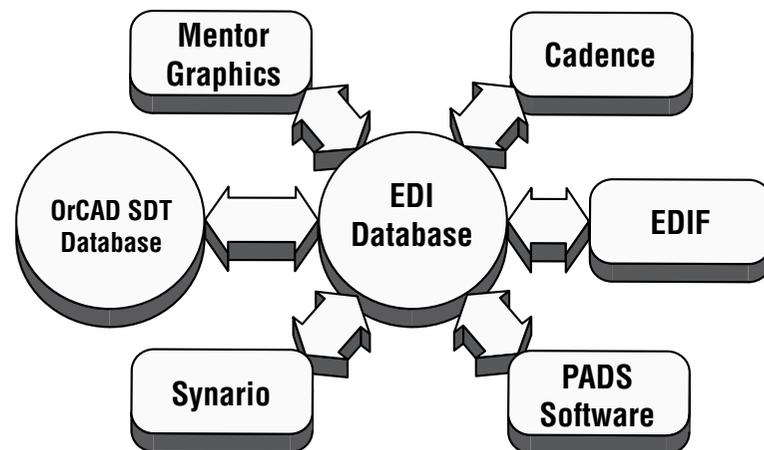
The DXL601 can also be combined with other Engineering DataXpress translators to facilitate direct database translation between OrCAD SDT and the other EDA vendors that we currently support. The list of EDA vendor's for which we offer translators includes Mentor Graphics for both V7 and V8, Cadence Design Systems, Synario, PADS Software, Viewlogic and others.

Schematics and symbol libraries can be transferred independently, or a schematic and its library of subcomponents can be transferred at the same time. The full design hierarchy can be transferred or portions may be selected in various ways. Options for the translator are specified in a set of commands located in a configuration file.

The DXL601 schematic translator is fully supported by Engineering DataXpress, a world-wide leader in data translation technology. This ensures that the translator will continue to be enhanced with new features and options. It will also remain current with each new release of OrCAD SDT/386+ software.

Features

- Complete translation of OrCAD schematic sheets and symbols to EDIF.
- Provides direct access to other EDA vendors from the DataXpress EDI Database.
- Handles mapping of names, properties, etc., under user control.
- Translates most EDIF Level 0 constructs.
- Handles hierarchy in OrCAD SDT sheets,



DataXpress Integrator

Product Description

The DXL601 schematic translator transfers schematic information out of the OrCAD Schematic Design Tools (SDT) database. All data out of the SDT database pass through the EDI database. It can then be transferred either directly to other EDA vendors who are also linked to the EDI database or to any EDA vendor that has an EDIF schematic interface.

The DXL601 translator is comprised of a single module. The orc2edi module takes as its input schematics and symbols created with SDT and creates as its output either an EDI database or an EDIF file describing the schematics. Any schematic design data contained in the SDT files can be translated into an EDIF file.

The orc2edi module reads the SDT environment that the user has specified in SDT. It also handles the mapping of SDT complemented names into various other name formats. In addition, it traces through the SDT page links.

SDT specific entities such as connectivity, objects, properties, and graphics are all translated to the equivalent EDI database representations. The translator uses configuration files to allow the user to control different aspects of the data transfer. For example, the translation of object names to conform to user specified naming conventions or name maps, and the mapping of SDT properties or fields, to EDIF properties. The user can also specify additional SDT information such as units, e.g., time in nanoseconds, and data type, i. e., strings or real numbers. In addition, it is possible to specify the following: the actual part of the design or symbol library to translate, the convention for changing net/bus names, and the handling of connectivity established by EDIF rippers, busses, and off-page connectors.

The following are some of the user options which can be specified:

- Selection of the symbols and cells in libraries and design hierarchies to be translated.
- Translation of the names of objects such as libraries, cells, nets, properties, fields, etc..
- Conversion of bus/net naming conventions and ripper cell connectivity.
- Conversion of property and field names and values.
- How OrCAD SDT properties and fields map to EDIF properties and attributes.
- What data type, i. e., string, integer, etc., a property should be translated into.
- Grouping of pages into EDIF views.

Supported Platforms

- PC Windows 95/98 or NT.
- Sun4/SunOS 4.1.4+
- Sun4/SunOS 5.x (Solaris 2.x).

Software Requirements

- OrCAD software release 4.03 or later.
- EDIF version 2 0 0.

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