E N G I N E E R I N G

DataXpress

DXL500 PADS Software Schematic Translator

The DXL500 PADS Software 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 step in the design process to another. This usually involves going from one EDA vendor's tools to another's.

Engineering DataXpress works closely with the various EDA vendors to obtain proprietary information about their database formats and structures. This information is then used to develop optimized data links into and out of their proprietary databases.

The DXL500 allows PADS Software users to translate their schematic design data to the DataXpress database called EDI. The EDI database acts as an integration hub for the direct transfer of data between PADS Software and other EDA vendors schematic capture systems.

In addition, it is possible to output PADS Software data from the EDI database as an EDIF data file.

Schematics and cell 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 DXL500 schematic translator is fully supported by Engineering DataXpress, a worldwide 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 PADS Software software.

Features

■ Translation of PADS Software schematic sheets and symbols to/from EDIF 2 0 0.

■ Provides 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 PADS Software sheets, symbols, and in EDIF cells.

DataXpress Integrator™
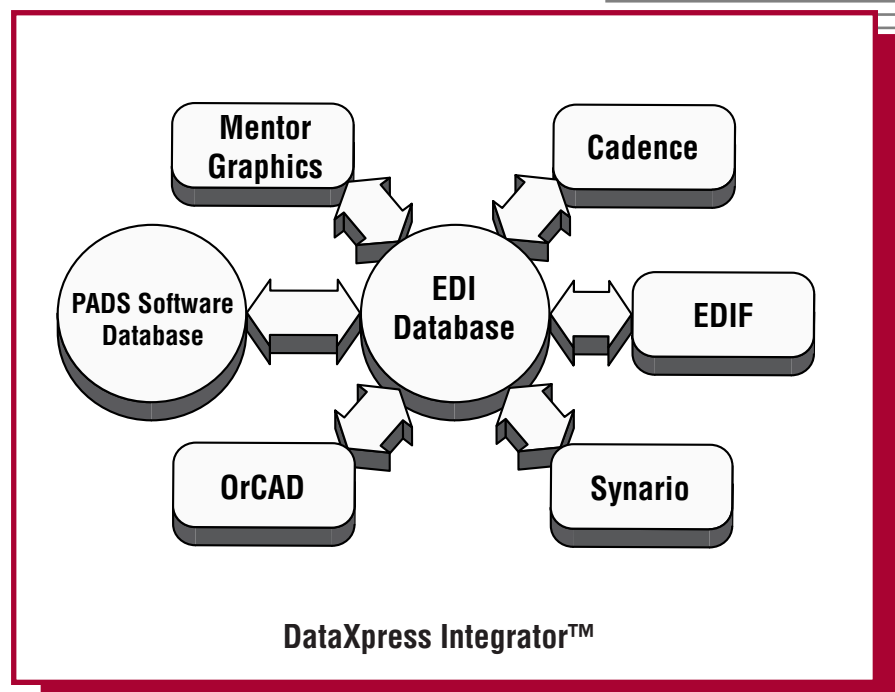
Product Description

The DXL500 schematic translator transfers schematic information both into and out of the PADS Software database. All of the information passes 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 DXL500 translator is comprised of two modules. The pads2edi module takes as its input schematics and symbols created with PADS Software and creates as its output either an EDI database or an EDIF file describing the schematics. Any schematic design data contained in the PADS Software files can be translated into an EDIF file. The edi2pads module takes as its input either an EDIF 2 0 0 schematic file or EDI database file and creates a PADS Software database file.

PADS Software specific entities such as connectivity, objects, properties, and graphics are all translated to or from the equivalent EDIF 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, the mapping of EDIF properties, parameters, and the specification of additional PADS Software attribute information such as units, e.g., time in nanoseconds, and data type, i. e., strings or real numbers. It is also 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, etc..

- Conversion of bus/net naming conventions and ripper cell connectivity.

- Conversion of property and attribute names and values.

- How PADS Software properties and attributes map to EDIF attributes.

- What data type, i. e., string, integer, etc., a property should be translated into.

Supported Platforms

- PC Windows 95/98 or NT.

- Sun4/SunOS 4.1.4+

- Sun4/SunOS 5.x (Solaris 2.x).

Software Requirements

- PADS Software release 1.8 or later.

- EDIF version 2 0 0.

Integrating Engineering Data

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ENGINEERING
DataXpress

Engineering DataXpress, Inc.

2910 Stevens Creek Blvd. #109-736
San Jose, California 95128
Ph: (408) 243-8786 • Fax: (408) 243-8994
Email: info@dataxpress.com
Web: www.dataxpress.com