

ENGINEERING
DataXpress

DXL201 DAZIX ACE Schematic Translator

The DXL201 DAZIX ACE to EDIF Schematic Translator is one of a series of optimized data links that are part of the Engineering Data Integrator product line. The Engineering Data Integrator was developed as a solution to the problem of moving design data from one step in the design process to another. This process usually involves going from one EDA vendor's tools to another's. These tools are fundamentally different in terms of function and data formats.

Engineering DataXpress, as part of their charter to provide data integration solutions for the design environment, 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 DXL201 translator converts DAZIX design data into the industry-standard Electronic Design Interchange Format (EDIF).

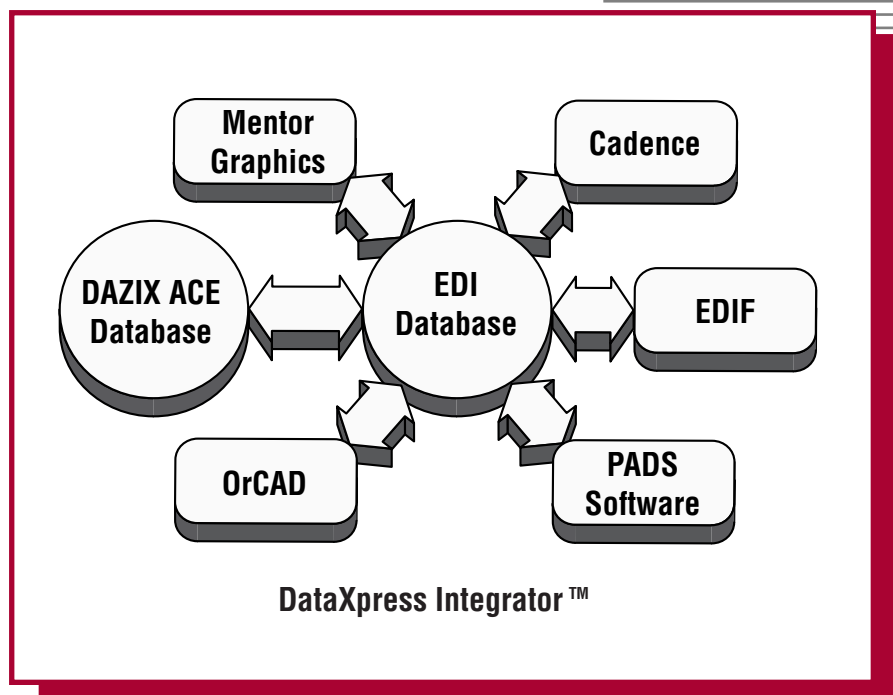
Designs and libraries can be transferred independently, or a design and its library of subcomponents can be transferred in the same EDIF file. The full design hierarchy can be transferred or it can be limited in various ways.

Options for the translator are specified in a set of commands located in a configuration file. Capabilities supported by the configuration file include property and attribute mapping, library transfer and hierarchy options, control over mapping of file and cell names, and unit scaling.

The DXL201 translator eliminates the need to develop special translators in order to move data from the DAZIX design environment to another. It produces correct EDIF 2.0.0 schematic files which can be read by the growing number of EDA vendors that provide EDIF 2.0.0 interfaces to their systems.

Features

- Single command line invocation translates multiple drawings, drawing trees, and/or library databases.
- User control over whether components are translated or referenced as an external library.
- Uses ACE and DANCE configuration and profile files.
- User control over object and parameter mapping.



Product Description

The DXL201 translator converts schematic information that is contained in the DAZIX ACE database into the EDIF 2.0.0 schematic format. Once the DAZIX design data is in the EDIF format it is then possible to transfer this data to any EDA vendor that provides an EDIF 2.0.0 schematic reader.

The translation of DAZIX schematic files is accomplished by accessing the ACE data files via the ACE procedural interface. The DAZIX schematic pages and libraries are then read into the EDI database and converted into EDIF schematic pages and symbols. DAZIX specific elements such as components, shared components, nested components, blocks, nested blocks, I/O connectors, wires, bundles, pins, text and graphics are all translated to the equivalent EDIF representations. The translator uses both DANCE and ACE configuration and profile files to determine user options and to locate files in a design hierarchy. In addition it also reads CONTS and CTL parameters to determine the contents of bundles and I/O connectors which are then used as names in the EDIF output. The translator performs the equivalent connectivity extraction and hierarchy traversal as the DAZIX DANCE and DRINK utilities.

The user can select different options to direct the translator to accommodate the differences between the way DAZIX represents objects and the way other EDA vendors represent similar objects. For example, wire bundle intersections can be mapped, under user control, to various types of ripper cells which are required by other EDA vendors schematic systems. Also ACE parameters can be mapped, again under user control, into EDIF properties, parameters and attributes. The user can also control the

way in which I/O connectors are represented so that they too may be mapped to other schematic systems.

The following is a list of the different types of translations which are handled by the DXL201 translator:

- Under user control it maps DAZIX object names into other schematic systems object names.
- Maps DAZIX parameters into EDIF properties, parameters and attributes such as port delay.
- Translates parameter values by performing a unit translation on numeric values and text substitution on string parameters.
- Converts wire bundle intersections to rippers required by other schematic systems.
- I/O ports are mapped so as to accommodate other schematic system conventions.

Supported Platforms

The DXL201 translator runs on the following platform:

- Sun4/SunOS 4.1.4+.

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