

ENGINEERING  
**DataXpress**

## ***DXL1801 Viewlogic Schematic Translator***

The DXL1801 Viewlogic 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 DXL1801 can also be combined with other Engineering DataXpress translators to facilitate direct database translation between Viewlogic Workview Office or Powerview and the other EDA vendors that we currently support. The list of EDA vendors for which we offer translators includes Cadence Design Systems, Mentor Graphics for both V7 and V8, OrCAD, PADS Software, Synario and others.

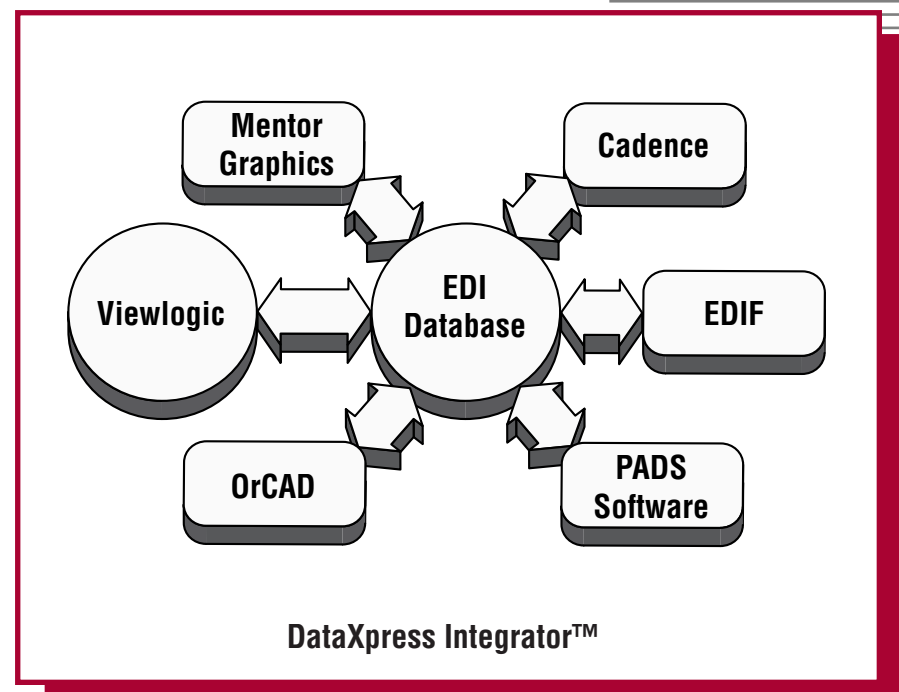
The DXL1801 schematic translator allows Viewlogic Workview Office and Powerview users to translate their schematic design data to the Engineering DataXpress database called EDI. Data from the EDI database can then be translated to other EDA vendor systems or output as an EDIF data file.

Schematics, symbols 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 DXL1801 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 Viewlogic Workview Office and Powerview software.

## ***Features***

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



## Product Description

The DXL1801 schematic translator transfers schematic information out of the Viewlogic Workview Office and Powerview databases. All data out of the Viewlogic database pass through the EDI database. The data 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 DXL1801 translator is comprised of one module. The vl2edi module takes as its input schematics and symbols created with Workview Office and/or Powerview and creates as its output either an EDI database or an EDIF file describing the schematics. Any schematic design data contained in the Workview Office and/or Powerview files can be translated into an EDI database. (For information about features provided in support of other EDA vendor systems, see the appropriate DXL datasheet.)

The vl2edi module reads the Viewlogic environment that the user has specified in Workview Office and/or Powerview. It also handles the mapping of Viewlogic complemented names into various other name formats. In addition, it traces through the Workview Office and/or Powerview design hierarchy.

Viewlogic 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 Viewlogic properties. The user can also specify additional Viewlogic 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 to translate, the convention for changing net/bus names, and the handling of connectivity established by rippers and busses.

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 names and values.
- What data type, i. e., string, integer, etc., a property should be translated into.
- Output an EDIF file.

## Supported Platforms

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

## Software Requirements

- Viewlogic Workview Office software release 7.1 or later.
- Viewlogic Powerview software release 6.0 or later.
- EDIF version 2 0 0.

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