Software Product Description

PRODUCT NAME: DECdesign, Version 1.1 **SPD 29.29.01**

DESCRIPTION

DECdesign is a DECwindows-based, VMS layered product that graphically supports the analysis and design phase of the software development life cycle. Graphics-based analysis and design models describe the application under development the way blueprints describe a building under construction.

Software engineers using DECdesign can create, modify or reuse these models to describe a software system according to the rules of the modeling technique.

DECdesign supported modeling techniques are Yourdon process modeling with Ward-Mellor real-time extensions and Extended Entity Relationship (EER) data modeling, Gane & Sarson process modeling and Extended Entity Relationship (EER) data modeling, and MERISE process and data modeling. MERISE, now available, is a technique that was developed by the French "Ministere de l'Industrie" in the 1970s.

On-line training, which is included with the product, provides the user of DECdesign the opportunity to learn how to use the product at their own pace and in the convenience of their office. This training has been designed in a modular format to allow the user to train on selected specific functionality in the context of their chosen technique. At this time, the techniques supported with this level of training are Yourdon/EER and Gane & Sarson/EER. There is no on-line training provided for MERISE. In addition, context sensitive help is included in DECdesign, providing ready access to on-line information about specific functionality.

Features

DECdesign is a multiple-user system that supports concurrent access, data security, and permanent data storage.

DECdesign stores analysis and design models in libraries. A library has the following functions:

- Security — users can be authorized to use a library.
- Data storage — the library maintains incremental versions of views.
- Data sharing — all authorized users of a library have access to all views in the library.
- Design control — the library applies the rules for the user's modeling technique; these include:
  - — The shape and meaning of graphical objects in a model
  - — Requirements for a valid model
  - — Tools for evaluating and reporting on the state of the models

The software designer can select from one of three technique libraries available in DECdesign to model their application; Yourdon (with Ward-Mellor extensions)/EER, Gane & Sarson/EER, or MERISE. The models are defined and manipulated using graphic icons that represent the constructs of a chosen technique. DECdesign, upon the user's request, will check for valid models based upon predefined but differing rules for each technique. DECdesign does not support validation of Ward-Mellor State Transition Diagrams or State Tables.

The process and data models are integrated in each of the three libraries through the sharing of data definitions.

DECdesign is integrated with CDD/Plus. Selected data definitions stored in CDD/Plus can be reused by importing and linking to models produced in DECdesign. Likewise, selected data definitions created in DECdesign can be exported and linked to CDD/Plus. Notification of changes to these linked definitions in CDD/Plus is provided to the DECdesign user.

DECdesign allows the user to navigate interactively through the model database determining where elements of that database are used.

Information about the model database is also provided to the user with the aid of an extensive set of report templates. These reports can be previewed on the display or output to a VMS file using the Digital Data Interchange Format (DDIF), which is a part of Digital Equipment Corporation's Compound Document Architecture (CDA).

DECdesign has been implemented to support a client/server model of operation. The product can run on a stand-alone workstation with both client and server images of DECdesign running on the workstation. Alternatively, the client and server images of DECdesign can be divided physically to run on separate systems. Client and server image installation can be selected at installation time. For further information and installation procedures, refer to the DECdesign Installation Guide.

HARDWARE REQUIREMENTS

VAX, MicroVAX, VAXstation, or VAXserver configuration as specified in the System Support Addendum (SSA 29.29.01-x).

SOFTWARE REQUIREMENTS

For Workstations Running DECwindows:

- VMS Operating System (and necessary components of VMS DECwindows)
- VAX CDD/Plus

Note: VAX CDD/Plus is required for the server component of the DECdesign client/server model.

Refer to the System Support Addendum (SSA 29.29.01-x) for availability and required versions of prerequisite/optional software and for information regarding components of VMS DECwindows.

ORDERING INFORMATION

Note: DECdesign is now offered in modules. Each module requires a PAK that must be installed. Each order must include licenses for the DECdesign platform and from 1-3 of the distinct techniques offered. The previous offering of DECdesign consisted of the DECdesign platform, one Yourdon technique, and one Gane & Sarson Technique in a single license and documentation set.

The software media kit contains consolidated binaries for the platform and all of the techniques. However, this kit now contains only platform documentation. The individual licenses and documentation kit(s) for the technique(s) ordered must be purchased separately.

Software Licenses:

DECdesign Platform: QL-XD1A*-**
Yourdon technique: QL-XAKA*-**
Gane & Sarson technique: QL-XALA*-**
MERISE technique: QL-XAMA*-**

Software Media:

QA-XD1A*-**

Software Documentation:

DECdesign Installation Guide and *Guide to DECdesign:* QA-XD1AA-GZ

Yourdon Documentation: QA-XAKAA-GZ

Gane & Sarson Documentation: QA-XALAA-GZ

MERISE Documentation: QA-XAMAA-GZ

Software Product Services:

QT-XD1A*-**

QT-XAKA*-**

QT-XALA*-**

QT-XAMA*-**

* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

SOFTWARE LICENSING

This software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital's licensing terms and policies, contact your local Digital office.

LICENSE MANAGEMENT FACILITY SUPPORT

This layered product supports the VMS License Management Facility.

License units for this product are allocated on a CPU-capacity or User/Activity basis. For a User/Activity license, each dedicated user requires a license. Concurrent access to the libraries is supported by DECdesign, yielding improved productivity for project team work.

For more information on the License Management Facility, refer to the VMS Operating System Software Product Description (SPD 25.01.xx) or the *License Management Facility* manual of the VMS Operating System documentation set.

SOFTWARE PRODUCT SERVICES

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SOFTWARE WARRANTY

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