



Software Product Description

PRODUCT NAME: DECADMIRE V2.1A

SPD 52.65.03

DESCRIPTION

DECADMIRE™ is an application development environment that generates high-performance large scale commercial applications. Rapid application development methodologies (prototyping, code templates, screen and code generation) are used to build reliable, production applications. DECADMIRE is developed and licensed to Digital, by Mirus Data AB, Sweden.

DECADMIRE employs rapid application development (RAD) methodologies through the use of templates, which allow you to quickly design, test, and implement client/server applications. Applying this method to systems development in fast-changing environments provides interactive development that supports work review at each cycle, provides independence of design from implementation, and consistent coding behavior and appearance in the final application.

DECADMIRE can generate conventional timesharing, client/server, and transaction processing solutions. The application is generated as source code. The generated code can be extensively modified manually and these modifications are kept intact in future regenerations of the application—an exclusive feature of DECADMIRE.

Components Details/bold

DECADMIRE has two major components that allow the user to create an application: the DECADMIRE BUILDER and the DECADMIRE GENERATOR.

DECADMIRE BUILDER

The BUILDER allows the application developer to interactively determine the application structure and the appearance of the forms associated with the application. This logical application definition is stored in a shared database for all types of applications.

The developer can also simulate how the application works, including database operations against the server, without actually generating any executable code. SMG is utilized to simulate the application appearance. Existing data definitions can be imported or cloned into DECADMIRE to be used as an application design base.

DECADMIRE GENERATOR

The GENERATOR generates the application code for the appropriate platform and environment paradigms that you choose. The generator is utilized once prototyping is completed. The same generator process is utilized to generate all language variations of applications.

The source code for the application is produced by the GENERATOR. The result of this generation is an integrated application based on code for Digital layered products. This code can be modified, enabling additional features or customizations to be added to the application. The code contains markers, which delimit portions of the code that will be updated during regeneration from changes made in the BUILDER. Code modifications placed outside of these markers are not changed. The latest version of the source code can be used for regeneration, capturing all customizations.

Timesharing applications can scale to TP by specifying ACMS during regeneration (ACMS license required). The specific language and DECforms are exactly the same in both applications, preserving all modifications. The language driver code is replaced with an ACMS task and other ACMS components. An object library with some generic routines is used during the linking of the application.

DECADMIRE utilities provide tools to set up the development environment by dataset (application design database), including the creation of dataset, definition of developers who are authorized to use the environment, application messages, and reserved words.

DECADMIRE Application Development Process

Database Design/Description

DECADMIRE allows the user to start either by importing database information into the dictionary or manually entering this information using the dictionary maintenance facility. A review of all information entered or imported should be completed with either the dictionary maintenance tool or reports before continuing prototyping and code generation.

Relationships among tables are defined by associating like data items, which comprise parent-child and related table descriptions. All screen and form development, report development, prototyping, and code generation are based on the dictionary information. A copy table function is provided to enhance development efforts.

Application Design

Each function performed by the application is designed as a module. Each module is associated with predefined templates (building block objects), which associate a specific series of actions to be processed within the application. Definition of the form is completed by selecting data to be on the form, and associating business logic with the data. Automatic screens are generated for the developer to use for prototyping or customizing.

The DECADMIRE building block objects can be customized for each application's needs; however, modifications must follow the rules for each building block. Customizations made within the DECADMIRE building blocks are included in the generated code. Removal of the code markers in the building blocks is not supported.

Prototyping

After the user defines the database and creates the modules that define menus, screens, and reports, the application can be simulated using prototyping.

Prototyping can be completed for a single module (menu, report, or screen), a grouping of modules, or the entire application. Prototyping of a module that makes a call to other modules automatically includes all related modules in the prototyping session. Data can be entered, retrieved, and updated, using the DECADMIRE BUILDER data structure, simulating the final application based on a test or existing database.

Prototyping closely mimics the final application. However, some differences within the prototyping environment will not appear in the final generated application. Customizations made to the generated code are not operational in the prototyping environment.

Application Generation

DECADMIRE generates the required information to build an application, including the following:

Timesharing or TP:

- Choice of a 3GL: COBOL, FORTRAN, Pascal, and DEC C
- DECforms code
- Lists of values for DECforms
- Table descriptions (COPY-files) for DECforms (if Oracle CDD/Repository™ is not used for compiling)
- A test Oracle Rdb database (multiple or single file) and required SQL language definition
- Support of RMS files via a SQL-to-RMS integrator tool.
- ACMS task, task group, ACMS application definition file, and single step task for NO I/O task ACMS implementations.
- Table descriptions (COPY-files for 3GL)
- Entire application's Oracle CDD/Repository and supporting CDO language
- A specific database table for Oracle CDD/Repository and supporting CDO language
- ACMS Desktop workspace definition client file
- Handbook user documentation for a specific module or the entire application

Development Environment Reports

DECADMIRE provides reports that describe information contained in the DECADMIRE dictionary. These reports can be used during development and as application documentation.

Support Functions

DECADMIRE includes an authorization tool, a print batch, and queue management facility, which are available for use in the generated application.

Internationalization Features

DECADMIRE allows for localization of messages and localized language input, as supported by DECforms, using the screen text description.

Sample Applications

Sample applications are included with the product. Modules in these applications can be used for self-paced training by reproducing them, or can be copied to quickly include similar functions in the application under development. Modules for the Windows version can be created from the Tutorial. Data can be shared between VT and Windows modules.

Documentation

The DECADMIRE documentation set is available both with the purchase of the DECADMIRE product and separately. The documentation set consists of:

- *DECADMIRE Installation Guide*
- *DECADMIRE Introduction*
- *DECADMIRE User's Guide*
- *DECADMIRE Application Code Guide*

HARDWARE REQUIREMENTS

Alpha, VAX, MicroVAX, VAXstation, and VAXserver processors are supported for application deployment with the exceptions noted below.

Processors Not Supported

MicroVAX I, VAXstation I, VAX-11/725, VAX-11/730, VAX-11/782, VAXstation 8000

Other Hardware Requirements

- A TK50 Tape Drive is required for OpenVMS VAX installations.
- A CD-ROM Drive is required for OpenVMS Alpha installations.
- A PC or VAXstation with a terminal emulator is required for a client/server deployment.
- An LN03 or PostScript printer for printing screen captures, and report information.

Disk Space Requirements OpenVMS VAX

DECADMIRE Installation Kit	Blocks During Install	Blocks After Install
Base Kit	95,000	91,000
Language Generator	5,900	4,000
ACMS Generator	2,000	3,400
Demo Applications	32,000	26,000
Optional CDD Dict.	12,000	11,000
PC Kit	14,000	13,000

Disk Space Requirements OpenVMS Alpha

DECADMIRE Installation Kit	Blocks During Install	Blocks After Install
Base Kit	120,000	112,000
Language Generator	5,900	4,000
ACMS Generator	2,000	3,400
Demo Applications	23,000	21,000
Optional CDD Dict.	12,000	11,000
PC Kit	12,000	11,000

OPTIONAL HARDWARE

Any device supported by the prerequisite/optional software.

SOFTWARE REQUIREMENTS

- OpenVMS VAX Operating System V5.5-2 or higher
- OpenVMS Alpha Operating System V1.5 or higher
- DECADMIRE V2.1
- Oracle Rdb OpenVMS V6.0 (for development)
- Oracle Rdb OpenVMS V4.1—V6.0 (for production application)
- PATHWORKS V4.1 or higher

Optional Software:

- eXcursion

To compile and build the generated source code, one of the following 3GL products is required:

Software	OpenVMS VAX	OpenVMS Alpha
COBOL	V4.3—V5.2	V1.1—V2.0
DEC C	V3.2—V4.0	V1.3—V4.0
Fortran	V5.6—V6.2	V6.1—V6.2
Pascal	V4.2—V5.0	V5.1—V5.2

In addition to a 3GL product, one of the following products or a combination of the products is needed to compile and build the generated source code:

Software	OpenVMS VAX	OpenVMS Alpha
DECforms	V1.4—V2.0	V1.4C
ACMS	V3.3—V4.0	V4.0
ACMS Desktop (w/ACMS)	V1.2—V2.0	V2.0

OpenVMS Tailoring

The following OpenVMS classes are required for full functionality of this layered product:

- OpenVMS Required Saveset
- Programming Support
- Utilities

For more information on OpenVMS classes and tailoring, refer to the OpenVMS Operating Systems Software Product Descriptions (VAX: SPD 25.01.xx, Alpha: SPD 41.87.xx).

SOFTWARE LICENSING

This software is furnished only under a license. For more information about DIGITAL's licensing terms and policies, contact your local DIGITAL office.

Run-Time Environment

No DECADMIRE run-time license is required for this product.

Run-time licenses may be required for deployment of the generated code.

License Management Facility Support

This layered product supports the OpenVMS License Management Facility.

License units for this product are allocated on a Unlimited and Concurrent Use basis:

- The Unlimited Use License is an umbrella term used to describe the set of capacity style license offerings. License types included under this umbrella are Traditional and Clusterwide.
- The Concurrent Use License allows any one individual at a time to use the layered product.

For more information on the License Management Facility, refer to the OpenVMS Operating Systems Software Product Descriptions (VAX: SPD 25.01.xx, Alpha: SPD 41.87.xx), or the *License Management Facility* manual of the OpenVMS Operating Systems documentation set.

OPTIONAL SOFTWARE

Software	OpenVMS VAX	OpenVMS Alpha
DEC LSE	V2.3—V4.2	V4.2
DECset Release	V11.0	V11.0
Oracle CDD/Repository	V5.1—V5.3	V5.1—V5.3
Oracle Trace™	V1.4—V2.1	V2.1

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

ALSTRA

By converting from DECADMIRE to ALSTRA™, developers can implement a client/server solution incorporating Visual Basic clients. ALSTRA and ALSTRA Enterprise are PC-based development tools which generate Visual Basic or web clients with your choice of ODBC, MTS objects, or ACMSxp as middleware. ALSTRA applications can be deployed to Windows NT, OpenVMS, or DIGITAL UNIX® servers.

For more information refer to the ALSTRA Software Product Description (SPD 56.32.xx) or the ALSTRA Enterprise Software Product Description (SPD 70.02.xx).

Year 2000

This product complies with the DIGITAL guidelines for Year 2000 operation.

Because this product generates application code using data fields selected by the developer, the developer must ensure that his or her definition and usage of the data fields will function correctly across the millennia.

DISTRIBUTION MEDIA

- TK50 Streaming Tape for VAX processors
- CD-ROM for Alpha processors

The software for DECADMIRE for OpenVMS is available as part of the OpenVMS Consolidated Software Distribution on CD-ROM.

The documentation for DECADMIRE for OpenVMS is available as part of the OpenVMS Online Documentation Library on CD-ROM.

ORDERING INFORMATION

OpenVMS VAX Part Numbers:

License Type	Part Number
Concurrent Licenses	QL-091AA-3B
Traditional Licenses	QL-091A9-AA
Software Media & Doc	QA-091AA-H5
Software Documentation	QA-091AA-GZ

OpenVMS Alpha Part Numbers:

License Type	Part Number
Concurrent Licenses	QL-091AA-3B
Traditional Licenses	QL-2SSA9-AA

Software Media & Doc	QA-2SSAA-H8
Software Documentation	QA-091AA-GZ

SOFTWARE PRODUCT SERVICES

A variety of service options are available from DIGITAL. For production Transaction Processing applications, we recommend Mission Critical Support services. For more information, contact your local DIGITAL or DIGITAL Partner office.

SOFTWARE WARRANTY

Warranty for OpenVMS-based software is provided by DIGITAL with the purchase of a license for the product as defined in the Software Warranty Addendum to this SPD.

TRADEMARK INFORMATION

- ® Intel is a registered trademark of Intel Corporation.
- ® PostScript is a registered trademark of Adobe Systems, Inc.
- ® Microsoft, Windows, Microsoft Access, Windows 95, and Visual Basic are registered trademarks of Microsoft Corporation.
- ® Oracle is a registered trademark of Oracle Corporation.
- ® UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company Ltd.
- ™ ALSTRA is a trademark of Mirus Data AB.
- ™ Oracle7, Oracle CDD Repository, Oracle Rdb, and Oracle TRACE are trademarks of Oracle Corporation.
- ™ Windows NT is a trademark of Microsoft Corporation.
- ™ ACMS, ACMSxp, ACMS Desktop, DECADMIRE, DEC C, DEC FORTRAN, DECforms, DEC Pascal, DECset, Digital, eXcursion, LN03, MicroVAX, OpenVMS, PATHWORKS, TK, VAX, VAX COBOL, VAXft, VAXserver, VAXstation, VMS, and the DIGITAL logo are trademarks of Digital Equipment Corporation.

©1998 Digital Equipment Corporation. All rights reserved.

