

Natural Engineer

Release Notes

Version 8.3.4

March 2016

Manual Order Number: NEE83-008ALL

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This document applies to Natural Engineer version 8.3 and to all subsequent releases.

Specifications contained herein are subject to change, and these changes will be reported in subsequent revisions or editions.

Readers' comments are welcomed. Comments may be addressed to the Documentation Department at the address on the back cover. Internet users may send comments to the following e-mail address:

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ABOUT THIS MANUAL

Purpose of this manual

This manual contains the Release Notes for Natural Engineer version 8.3.4.

The information provides an overview of the new features, changes and enhancements, as well as any migration, support and product documentation issues.

In addition to the new features and enhancements, this Natural Engineer version includes all error corrections, changes and enhancements provided with previous Natural Engineer versions.

Target Audience

The target audience for this manual is intended to be any User of Natural Engineer version 8.3.4 as well as Systems Administrators responsible for installing and configuring the product.

Typographical Conventions used in this manual

The following conventions are used throughout this manual:

| | |
|-----------------------------------|---|
| UPPERCASE TIMES | Commands, statements, names of programs and utilities referred to in text paragraphs appear in normal (Times) uppercase. |
| UPPERCASE BOLD COURIER | In illustrations or examples of commands, items in uppercase bold courier must be typed in as they appear. |
| < > | Items in angled brackets are placeholders for user-supplied information. For example, if asked to enter <file number>, you must type the number of the required file. |
| <u>Underlined</u> | Underlined parts of text are hyperlinks to other parts within the online source manual. This manual was written in MS-Word 97 using the "hyperlink" feature. |

The following symbols are used for instructions:

| | |
|----|---|
| ⇒ | Marks the beginning of an instruction set. |
| o | Indicates that the instruction set consists of a single step. |
| 1. | Indicates the first of a number of steps. |

How this manual is organized

This manual is organized to reflect the new features/enhancements, changes/modifications and documentation updates available with the release of Natural Engineer version 8.3.4.

This manual should be read carefully before installing and using the product.

| Chapter | Contents |
|----------------|--|
| 1 | Provides general information for this release, including migration from previous versions, maintenance support, main features of upcoming releases and customer change/enhancement requests. |
| 2 | Provides an overview of the new features, changes and enhancements for this release along with any product highlights. |
| 3 | Provides a list of the documentation available for this release along with manual order numbers. |

Terminology

This section offers some of the terms that are specific to the Natural Engineer product.

Note: Familiarity is assumed with the general terminology of Natural, Adabas, Microsoft and Mainframe operating systems.

Analysis

The Analysis process of Natural Engineer searches application data within the Natural Engineer Repository, according to specified Search Criteria and generates reports on the search results.

Application

An Application is a library or group of related libraries, which define a complete Application. In Natural Engineer, the Application can have a one-to-one relationship with a single library of the same name, or a library of a different name, as well as related steplibs. The Application refers to all the source code from these libraries, which Natural Engineer loads into the Repository.

Browser

An Internet Browser such as Microsoft Internet Explorer or Netscape.

Category

Categories in Natural Engineer specify whether and how a Modification is applied to the Natural code. Valid categories are: Automatic change, Manual change, Reject the default Modification, No change to the data item, and the data item is in Generated Code.

A category is further broken down according to type of change (for example: Keyword, Literal, Data Item, Database Access, Definition).

Cobol

Abbreviation of Common Business Orientated Language. A programming language.

Cobol Link

A Cobol Link is the link between the individual Cobol modules and the executable Cobol program referenced in the JCL object.

Consistency

An option in the Analysis process that causes Natural Engineer to trace an Impact through the code, using left and right argument resolution to identify further code impacted by the code found.

Database Access Definition

A collective term used to identify DDMs, SQL Tables or Predict User Views.

About this manual

Data Item

A collective term used for any data fields within a programming object. These can be user-defined variables, DDM fields or System Variables. It is inter-changeable with the term 'variable'.

Environment

The Environment process is the means by which Natural Engineer generates a structured view of the application code in the Natural Engineer Repository. This provides application analysis reports and inventory information on the application and is used as the basis for Impact Analysis.

Exception

An Exception is an Item identified as impacted that does not require a Modification. Where there are a few similar Exception Items, they can be treated as Exceptions, and rejected in the Modification review process. Where there are many similar (therefore not Exceptions), consideration should be given to changing the Search Criteria so they are not identified as impacted in the first place.

Generated Code

This is code which has been generated by a Natural code generator, such as Construct, and which is not normally modified directly in the Natural editor.

Impact

An Impact is an instance of a Natural code Item; e.g., data item or statement (a "hit" scored by the Analysis process) that matches the defined Search Criteria used in the Analysis process.

Iteration

An Iteration is one examination cycle of a field identified according to the specified Search Criteria. For example, one Iteration is reading the field right to left. Multiple Iterations are performed when the option of 'Consistency' or Multi Search is requested for Analysis, and Natural Engineer performs as many Iterations as necessary to exhaust all possibilities of expressing and tracing the field, and can be limited by a setting in the NATENG.INI file.

JCL

Job Control Language.

JCL object

A JCL object is a collection of Job Control statements in the order which they are to be executed in a mainframe batch environment. Commonly referred to as JCL.

Library

A single library of source code, which exists in the Natural system file.

Modification

A Modification is a change suggested or made to an object or data item resulting in the required compliance of that object or data item. Modifications in Natural Engineer are classified according to Category and Type.

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Refactoring

Improving a computer program by reorganizing its internal structure without altering its external behavior.

Soft Link

A Soft Link is where a link between two objects has been defined using an alphanumeric variable rather than a literal constant.

TLM

Text Logic Members are used to contain the code required to support inclusion of common code into the application. An example of this is the code to include into an application before updating a database.

Type

The Type of Modification available, for example: Data Item, Keyword and Literal.

Variable

A collective term used for any data fields within a programming object. These can be user-defined variables, DDM fields or System Variables. It is inter-changeable with the term 'data item'.

Related Literature

The complete set of Natural Engineer manuals consists of:

1 Natural Engineer Concepts and Facilities (NEE83-006ALL)

The Concepts and Facilities manual describes the many application systems problems and solutions offered by Natural Engineer, providing some guidelines and usage that can be applied to Natural applications.

2 Natural Engineer Release Notes (NEE83-008ALL)

The Release Notes describe all the information relating to the new features, upgrades to existing functions and documentation updates that have been applied to Natural Engineer.

**3 Natural Engineer Installation Guide for Windows (NEE83-010WIN)
Natural Engineer Installation Guide for Mainframes(NEE83-010MFR)
Natural Engineer Installation Guide for Unix (NEE83-010UNIX)**

The Installation Guide provides information on how to install Natural Engineer on PC, Unix and mainframe platforms.

**4 Natural Engineer Administration Guide (NEE83-040WIN)
Natural Engineer Administration Guide (NEE83-040MFR)**

The Administration Guide provides information on all the various control settings available to control the usage of the different functions within Natural Engineer.

**5 Natural Engineer Application Management (NEE83-020WIN)
Natural Engineer Application Management (NEE83-020MFR)**

The Application Management manual describes all the functions required to add Natural applications into the Repository.

**6 Natural Engineer Application Documentation (NEE83-022WIN)
Natural Engineer Application Documentation (NEE83-022MFR)**

The Application Documentation manual describes all the available functions to document a Natural application within the Repository. These functions will help enhance / supplement any existing systems documentation such as BSD / CSD / Specifications etc.

**7 Natural Engineer Application Analysis and Modification (NEE83-023WIN)
Natural Engineer Application Analysis and Modification (NEE83-023MFR)**

The Application Analysis and Modification manual describes all the available functions to carry out analysis of Natural applications; including basic keyword searches. The modification process is described and detailed to show how it can be applied to modify single selected objects within a Natural application, or the entire Natural application in one single execution.

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**8 Natural Engineer Application Restructuring (NEE83-024WIN)
Natural Engineer Application Restructuring (NEE83-024MFR)**

The Application Restructuring manual describes the analysis and modification functionality required to carryout some of the more sophisticated functions such as Object Builder.

**9 Natural Engineer Utilities (NEE83-080WIN)
Natural Engineer Utilities (NEE83-080MFR)**

The Utilities manual describes all the available utilities found within Natural Engineer and, when and how they should be used.

10 Natural Engineer Reporting (NEE83-025ALL)

The Reporting manual describes each of the reports available in detail, providing report layouts, how to trigger the report and when the report data becomes available. The various report-producing mediums within Natural Engineer are also described.

11 Natural Engineer Batch Processing [Mainframes] (NEE83-026MFR)

The Batch Processing manual describes the various batch jobs (JCL) and their functionality.

12 Natural Engineer Messages and Codes (NEE83-060ALL)

The Messages and Codes manual describes the various messages and codes produced by Natural Engineer.

13 Natural Engineer Web Interface Installation and Configuration Guide(NEA83-010ALL)

The Web Interface Installation and Configuration Guide provides information on how to install and configure the Natural Engineer Web Interface.

14 Natural Engineer Advanced Services (NEE83-017WIN)

The Advanced Services manual describes various advanced options such as the Refactoring of Natural application source code with Natural Engineer, conversion of applications for Natural for Ajax and Business Rule processing.

GENERAL INFORMATION

Chapter Overview

This chapter covers the general information for Natural Engineer version 8.3.4.

The following topics are covered:

- [Migrating to Version 8.3.4](#)
- [Information For Upcoming Releases](#)
- [Natural Version for Open Systems](#)
- [SAG Installer](#)
- [Removed Features](#)

Due to last-minute documentation updates, it may be possible that the Natural Engineer documentation that you can download with the Software AG Installer or that the online help that you can invoke directly from the product does not yet contain the latest information. The most up-to-date Natural Engineer documentation can always be found on the Software AG documentation website at <http://documentation.softwareag.com/> (Empower login required).

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Migrating to Version 8.3.4

Note: Depending on the version of Natural Engineer used as a starting point, all subsequent migration steps must be followed. For example: If the starting point is Version 8.2.2, Version 8.2.2.1, Version 8.2.2.2, Version 8.2.3, Version 8.2.3.1, Version 8.2.3.2, Version 8.3.1, Version 8.3.2, Version 8.3.3 and Version 8.3.3.1 must be addressed. If you are upgrading from a version earlier than version 8.2.2 then please refer to the relevant NEExxx Release Notes documentation.

From Version 8.2.2 Base Release

If you are upgrading from Natural Engineer version 8.2.2 to Natural Engineer version 8.2.2.1 you will need to perform the following tasks:

[i] Release the following Superdescriptor:

SQ= AA(1,8), AZ(1,1), AK(1,32), RC(1,1), AB(1,8)

[ii] Conversion is Complete

From Version 8.2.2.1 Release

If you are upgrading from Natural Engineer version 8.2.2.1 to Natural Engineer version 8.2.2.2.

[i] New field

01,NQ,65,A,NU

[ii] New Superdescriptor

ST= AA(1,8), AB(1,8), NQ(1,65)

[iii] Fields now made Null Suppressed

01, AD, 8, U, NU

01, AE, 8, U, NU

01, AV, 7, U, NU

There are two methods available to convert the repository file to the new format.

1. To keep the existing Repository File

[i] Add the following field using the DBA Workbench:

01,NQ,65,A,NU

[ii] Unload & Decompress your existing Repository file.

[iii] Compress the decompressed file using the new FDT definitions NEE-REPOSITORY-V823.FDT from the ADA directory of Natural Engineer.

[iv] Create a new Repository file using the new FDT definitions NEE-REPOSITORY-V823.FDT from the ADA directory of Natural Engineer.

[v] Load the compressed file into the newly added file.

[vi] If you wish to use the new Fields Used functions of Object Viewer and Field Viewer then you will need to re-extract and load the relevant applications within Natural Engineer.

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[vii] Conversion is complete.

2. To use a new Repository File

[i] Unload any User data from the existing Natural Engineer repository that you may wish to keep e.g., User Profiles, Soft Link, User Documentation.

[ii] Set up a new Repository file using the new FDT definitions NEE-REPOSITORY-V823.FDT from the ADA directory of Natural Engineer.

[iii] Extract and Load all applications that you wish to use with Natural Engineer.

[iv] Reload the User data previously unloaded in [i]

[v] Conversion is complete.

Users of the Natural Engineer Web Interface (NEA) will need to upgrade to Microsoft® Silverlight® 5 for this release. The browser should automatically prompt to upgrade when running this version of NEA.

From Version 8.2.2.2 Release

If you are upgrading from Natural Engineer version 8.2.2.2 to Natural Engineer version 8.2.3 and have JCL loaded then the following object needs to be run to ensure that the repository has the most comprehensive information available.

[i] To apply the necessary conversions run the following object in the SYSNEE library

NEEJXCNV

Note: This program is completely re-executable and should be executed in a Natural session invoked using the Natural Parameter file: NATENG:

[ii] Conversion is complete.

From Version 8.2.3 Base Release

If you are upgrading from Natural Engineer version 8.2.3 to Natural Engineer version 8.2.3.1 then the following object needs to be run to ensure that the extract criteria records are converted to the new format.

[i] To apply the necessary conversions run the following object in the SYSNEE library

NEEEXCNV

Note: This program is completely re-executable and should be executed in a Natural session invoked using the Natural Parameter file: NATENG:

[ii] Conversion is complete.

If you wish to utilize the Database Key Usage diagrams then the applications will need to be re-extracted and loaded in order for the relevant information to be available.

If User Exit NEEUEX5 is not present in the SYSNEE library then please rename the supplied NEEUEX5X object to be NEEUEX5 so that new applications may be created.

From Version 8.2.3.1

If you are upgrading from Natural Engineer version 8.2.3.1 to Natural Engineer version 8.2.3.2 and have COBOL Links defined then the following object needs to be run to ensure that the extract criteria records are converted to the new format.

[i] To apply the necessary conversions run the following object in the SYSNEE library

NEECLCNV

Note: This program is completely re-executable and should be executed in a Natural session invoked using the Natural Parameter file: NATENG:

[ii] Conversion is complete.

If User Exit NEEUEX6 is not present in the SYSNEE library then please rename the supplied NEEUEX6X object to be NEEUEX6 prior to running Natural Engineer v8.2.3.2.

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From Version 8.2.3.2

If you are upgrading from Natural Engineer version 8.2.3.2 to Natural Engineer version 8.3.1 you will need to perform the following tasks:

[i] Invert the following Superdescriptors:

```
SU= AA (1,8), NL (1,1), AN (1,32)
SV= AA (1,8), NL (1,1), OL (1,1), AS (1,1), AN (1,32)
SW= AA (1,8), NL (1,1), OL (1,1), AN (1,32)
```

If you have soft links within your applications then the following object needs to be run to ensure that the soft link records are converted to the new format.

[i] To apply the necessary conversions run the following object in the SYSNEE library

NEESLCNV

Note: This program is completely re-executable and should be executed in a Natural session invoked using the Natural Parameter file: NATENG:

[ii] Conversion is complete.

From Version 8.3.1 Base Release

If you are upgrading from Natural Engineer version 8.3.1 to Natural Engineer version 8.3.2 there are no conversion tasks to be performed.

From Version 8.3.2 Base Release

If you are upgrading from Natural Engineer version 8.3.2 to Natural Engineer version 8.3.3 there are no conversion tasks to be performed.

From Version 8.3.3 Base Release

If you are upgrading from Natural Engineer version 8.3.3 to Natural Engineer version 8.3.3.1 there are no conversion tasks to be performed.

From Version 8.3.3.1

If you are upgrading from Natural Engineer version 8.3.3.1 to Natural Engineer version 8.3.4 there are no conversion tasks to be performed.

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Information for Upcoming Releases

This section covers any information on upcoming releases of Natural Engineer.

Natural Version for Open Systems

Natural Engineer 8.3.4 requires at least Natural Version 8.3 for Open Systems as a prerequisite.

SAG Installer

Natural Engineer for Windows and Unix is now installed using the Software AG Installer. For more information, see the relevant Installation documentation.

Removed Features

The Business Functions Option that was available in previous versions of Natural Engineer has been retired. Similar functionality is available with the new Services option.

NEW FEATURES, CHANGES & ENHANCEMENTS

Chapter Overview

This chapter covers the changes, enhancements and new features that are available with Natural Engineer version 8.3.4. The following topics are covered:

New Features

- [Decision Tables](#)

Changes and Enhancements

- [General Problem and Error Corrections](#)
- [Unix Task Scheduler](#)
- [Natural Engineer Web Interface](#)

Additional Entries in CINI and NATENG.INI file

New Features

Decision Tables

A Decision Table shows Business Rules based on conditional logic and associated actions. Each conditional block is shown as a separate Decision Table.

Natural Engineer v8.3.4 has introduced a “Decision Table” option for Natural and COBOL Objects to display these complex Business Rules and their Conditions and the actions that correspond to these Business Rules.

Example

For each conditional block in an object Natural Engineer will create a Decision Table. These will be numbered sequentially.

So for the following conditional block of Natural code, Natural Engineer will create one Decision Table.

```
0150 DECIDE ON FIRST VALUE OF *PF-KEY
0160 *
0170 VALUE "PF3", "PF15"
0180     FETCH "XX001P01"
0190 VALUE "PF12", "PF24"
0200     PERFORM XXEXIT
0210 VALUE "ENTR"
0220     DECIDE ON FIRST VALUE OF #M-OPTION
0230     VALUE "A"
0240         MOVE "A" TO #G-SELECTED-OPTION
0250         FETCH "XX021P01" /* ADD NEW PATIENT
0260     VALUE "M", "D"
0270         FETCH "XX024P01" /* MODIFY/DELETE PATIENT - TAKE THEM TO A LIST!
0280     NONE VALUE
0290         MOVE "INVALID OPTION SELECTED" TO #M-MESSAGE
0300     ESCAPE TOP
0310     END-DECIDE
0320 NONE VALUE
0330     MOVE "INVALID PF KEY PRESSED" TO #M-MESSAGE
0340 END-DECIDE
```

The following Figure 2-1 shows the Decision Tables screen for the conditional logic displayed above.

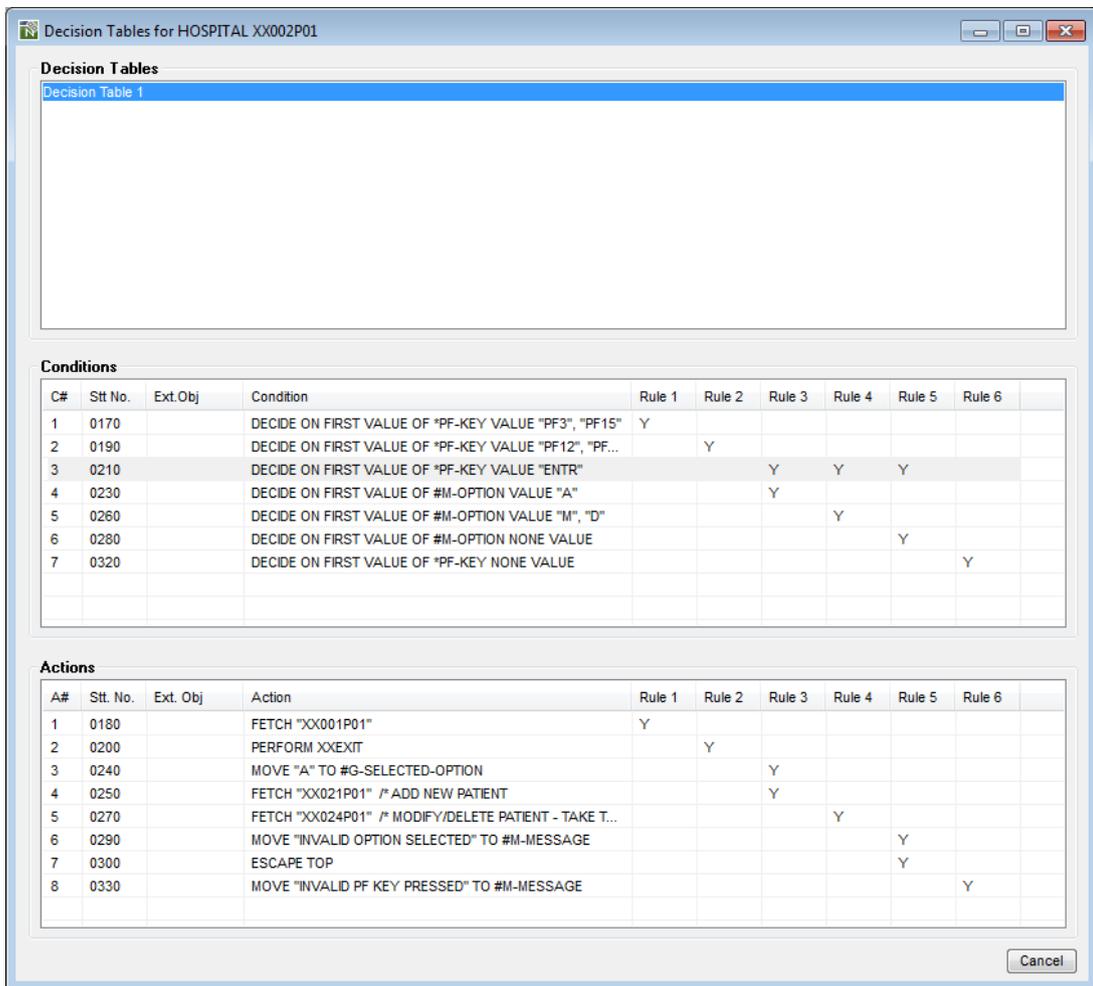


Figure 2-1 Sample Decision Tables screen.

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It can be seen that there are Conditions, in this case DECIDE clauses, at lines 0170, 0190, 0210, 0230, 0260, 0280 and 0320. These will be allocated a Condition number (C#).

NB: The main DECIDEs at 0150 and 0220 are not shown as Conditions in the table as this is the beginning of the DECIDE syntax - not the actual Condition.

```
0150 DECIDE ON FIRST VALUE OF *PF-KEY
0160 *
1 0170 VALUE "PF3", "PF15"
0180     FETCH "XX001P01"
2 0190 VALUE "PF12", "PF24"
0200     PERFORM XXEXIT
3 0210 VALUE "ENTR"
0220     DECIDE ON FIRST VALUE OF #M-OPTION
4 0230     VALUE "A"
0240         MOVE "A" TO #G-SELECTED-OPTION
0250         FETCH "XX021P01" /* ADD NEW PATIENT
5 0260     VALUE "M", "D"
0270         FETCH "XX024P01" /* MODIFY/DELETE PATIENT
6 0280     NONE VALUE
0290         MOVE "INVALID OPTION SELECTED" TO #M-MESSAGE
0300         ESCAPE TOP
0310         END-DECIDE
7 0320     NONE VALUE
0330         MOVE "INVALID PF KEY PRESSED" TO #M-MESSAGE
0340     END-DECIDE
```

A Business Rule (column) can consist of 1 or more Conditions. If a Business Rule has more than 1 Condition marked then this indicates nested Conditions.

So, Rule #3 uses Condition #3 & Condition #4, Rule #4 uses Condition #3 & Condition #5. Rules #3 and Rule #4 are linked by Condition #3, but are unique Rules. A Rule is a unique combination of Conditions.

Each Business Rule has a corresponding Action(s). The Actions are highlighted below;

```
0150 DECIDE ON FIRST VALUE OF *PF-KEY
0160 *
0170 VALUE "PF3", "PF15"
1 0180     FETCH "XX001P01"
0190 VALUE "PF12", "PF24"
2 0200     PERFORM XXEXIT
0210 VALUE "ENTR"
0220     DECIDE ON FIRST VALUE OF #M-OPTION
0230     VALUE "A"
3 0240         MOVE "A" TO #G-SELECTED-OPTION
4 0250         FETCH "XX021P01" /* ADD NEW PATIENT
```

```
0260 VALUE "M", "D"  
5 0270 FETCH "XX024P01" /* MODIFY/DELETE PATIENT  
0280 NONE VALUE  
6 0290 MOVE "INVALID OPTION SELECTED" TO #M-MESSAGE  
7 0300 ESCAPE TOP  
0310 END-DECIDE  
0320 NONE VALUE  
8 0330 MOVE "INVALID PF KEY PRESSED" TO #M-MESSAGE  
0340 END-DECIDE
```

Each Action will be allocated against a unique Business Rule.

Prior to displaying the Decision Tables, the Decision Table Analysis option needs to be run to create all cross-reference data for the table. This is available from the Application Maintenance → Decision Table Analysis Option from an Application node.

This is available on PC only.

Changes & Enhancements

General Problem and Error Corrections

This release contains general problem and error corrections as detailed in the text document 'NaturalEngineer_8-3-4-0_READMEFIX'.

Note: You can find it in the Natural Engineer product documentation at <http://documentation.softwareag.com/> (Empower login required), or when you have chosen to download the documentation during the installation of Natural Engineer - in a central directory named `_documentation` in your main installation directory.

Unix Task Scheduler

The Unix Task Scheduler, TASKSH.sh now requires an initialization file to hold local file locations. A sample initialization file, TASKsh.ini is now provided which should be modified to match site standards..

This is available on Unix only.

Natural Engineer Web Interface

The Natural Engineer Web Interface (NEA) is a graphical interface for reporting data stored in a Natural Engineer repository.

Changes and Enhancements

- [HTML5 Version](#)
- [Paging](#)

Changes & Enhancements

HTML5 Version

With this release a new sub directory is provided that contains a preview version of an HTML5 release of the Natural Engineer Web Interface that works with the latest version of the following browsers: Internet Explorer, Chrome and Firefox. As the Microsoft Silverlight plug-in is being removed from browsers we are focusing on producing a pure html/JavaScript version of the software. The software has a similar layout as previously using the same tree view. Charts and data grids show the same data.

With version 8.3.4 both the Silverlight and HTML5 versions are provided. The Silverlight version is located in the IIE directory whilst the HTML5 preview version, is provided in the NEA directory.

Paging

Paging for entries on tree view nodes added for Services, Objects in an Application, DDMs, COBOL Views and SQL Tables.

More and Prev icons show when this function is available. This was introduced to improve the speed of processing large applications.

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Initialization Settings

There are no new or modified initialization settings for Natural Engineer Version 8.3.4.

DOCUMENTATION

Chapter Overview

This chapter covers the documentation changes made for Natural Engineer version 8.3.4.

Documentation Updates

The documentation set for Natural Engineer has been updated to reflect the changes and additions provided with Natural Engineer version 8.3.4. All manuals have been reformatted and changed for this release.

New Compiled HTML Help

Natural Engineer now supplies online help for the PC in compiled HTML format. If you encounter an error message when invoking online help for the first time, you probably require an update to your Windows help system. Please check the following Microsoft web page for the appropriate update file:

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/htmlhelp/html/hwMicrosoftHTMLHelpDownloads.asp>

You can find further information about HTML help:

<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/htmlhelp/html/vsconHH1Start.asp?frame=true>

Note: In order to access HTML Help, the underlying components of Microsoft Internet Explorer 4.x (or later) must be installed.

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