

# **NaturalONE**

## **Release Notes**

Version 9.1.1

April 2019

This document applies to NaturalONE Version 9.1.1 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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**Document ID: ONE-RELNOTES-911-20181114**

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## Preface

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These *Release Notes* pertain to the core functionality of NaturalONE Version 8.4, including Natural for Ajax and Ajax Developer. The following topics are covered:

[What's New in Version 9.1?](#)

For important last-minute information, see the readme file that is provided with NaturalONE.



**Note:** The Release Notes for the NaturalONE components which can be installed optionally are provided separately. If available, they can be found in the documentation for the corresponding component.

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# 1 About this Documentation

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## Document Conventions

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Convention	Description
<b>Bold</b>	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <code>folder.subfolder.service</code> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies:  Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies:  Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the   symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

## Online Information and Support

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### Software AG Empower Product Support Website

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### **Software AG TECHcommunity**

You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

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- Access articles, code samples, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

## **Data Protection**

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Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

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## 2 What's New in Version 9.1?

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## Using NaturalONE in Your Own Eclipse Environment

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The easiest and recommended way to install NaturalONE is to make use of the Software AG Installer. However, you may prefer to make use of your already existing Eclipse environment. A short description how to achieve this can be found in the section *Using Your Own Eclipse* in the *Installation* documentation.

## Installation

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The Software AG Designer 10.3, which includes NaturalONE, uses Eclipse Version 4.7.3a. If you prefer to use NaturalONE in your existing Eclipse environment, Eclipse Version 4.7.3a is required. In addition, Java 1.8 is required. See also *Using Your Own Eclipse* in the *Installation* documentation.

### Support of Windows 7 Professional Edition - x86-64

NaturalONE Version 9.1.1 under Windows 7 Professional Edition - x86-64 will be supported until January 31st, 2020.

## Basic Functionality for Natural Application Development

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This section describes new features and enhancements in NaturalONE's basic functionality for Natural application development. It covers the following topics:

- [Renamed and Modified Option in the Runtime Execution Preferences](#)
- [Clean Project on Update from Repository](#)
- [File Transfer](#)

### Renamed and Modified Option in the Runtime Execution Preferences

The option **Expand Natural server view on reconnect** has been enhanced and renamed to **Restore Natural Server View**.

For further details please refer to *Runtime Execution* in *Setting the Preferences*.

## Clean Project on Update from Repository

When a Natural project in the workspace is updated from a repository location the *.natural* file of the project may also be modified.

Depending on the setting of the preference **Update project properties automatically on .natural file modification** in the Natural Project preferences, the new properties coming with the updated *.natural* file are propagated to the project and will immediately come into effect.

On changes of the runtime properties, the project's server environment may possibly no longer be in synch with the project's builder information, e.g. Natural objects existing in the project in the workspace may be missing in the new server environment. This may lead to Natural errors on the project's build, update or upload functions. Executing the function **Clean** function in a project ensures that the project in the workspace will be in synch with the server environment.

The **Clean** function is now executed automatically for a project when one of the following properties is changed in the *.natural* file:

- Host Name
- Port Number
- Session Parameters
- FUSER

### Prerequisite

The preference **Update project properties automatically on .natural file modification** must be checked in the Natural Project preferences.

### Properties Dialog

The automatic **Clean** of a project is not performed when the projects server environment is modified using the **Properties** dialog. Here the user must take care on his own and issue the **Clean** function for the project manually when the modifications have been done.

For further details on the **Clean** function see also *Understanding the Behavior of the Natural Builder, Builder* in the Natural preferences and *Modifying Objects in the Natural Environment or in the Repository*.

## File Transfer

NaturalONE now supports File Transfer. This functionality is currently only available when executing applications on mainframe-based NDV (Natural Development) servers.

Refer to *File Transfer* in section *Setting the Preferences* for details.

## Deploying Natural Applications

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This section describes new features and enhancements in the NaturalONE deployment area. It covers the following topics:

- [Switching the Security Mode](#)
- [Using Project References](#)
- [Scratching Objects on the Server](#)
- [Writing a History Log File](#)
- [Creation of SYSOBJH Workplans](#)
- [Recognition of the FNAT SYSTEM Library](#)
- [Handling of Upload Errors](#)
- [Performance of the NaturalONE Deployment Run](#)
- [Starting the Deployment from the Command Line](#)

### Switching the Security Mode

The security mode used in the NaturalONE deployment wizard can now be switched independently from the mode set in the Natural server environment. Refer to the description given under *Steplibs* in the section *Using the Deployment Wizard for Natural Applications* for details.

### Using Project References

References between NaturalONE projects can now be handled also in the NaturalONE deployment scripts. See section *Project References* in the section *Using the Deployment Wizard for Natural Applications* and *Project References Handling* for detailed information.

## Scratching Objects on the Server

The NaturalONE deployment scripts can now record the deletion of objects in the workspace and scratch the corresponding objects on the server during the next deployment run. See the description for the option **Scratch server objects** description under *General Settings* in the section *Using the Deployment Wizard for Natural Applications*.

## Writing a History Log File

The NaturalONE deployment scripts can be enabled to write history log files during processing. For more information refer to *Logging* in the section *Using the Deployment Wizard for Natural Applications*.

## Creation of SYSOBJH Workplans

The NaturalONE deployment scripts can be enabled to generate SYSOBJH workplans which can be used to replay the actions performed by the NaturalONE deployment scripts in pure server environments. For more information refer to *Logging* in the section *Using the Deployment Wizard for Natural Applications*.

## Recognition of the FNAT SYSTEM Library

The NaturalONE deployment scripts can now handle the special file number "-2" which can be used to refer to the SYSTEM library in FNAT. See *Steplibs* in the section *Using the Deployment Wizard for Natural Applications* for details.

## Handling of Upload Errors

Upload errors that occur during the NaturalONE deployment run are now handled similar to catalog or stow errors so that the corresponding object is marked for a retry during the next deployment run.

## Performance of the NaturalONE Deployment Run

During NaturalONE deployment runs with incremental mode enabled the objects that need to be processed have to be calculated depending on the scope level that has been selected (see *Controlling the Scope of Files to be Processed* for details). The performance of these calculations has been enhanced, especially for large applications with many objects and especially for the initial (first) deployment run.

## Starting the Deployment from the Command Line

In addition to the already required JAR files for running the deployment script, another new JAR file is required now. For more information refer to *Prerequisites* in the section *Starting the Deployment from the Command Line*.

## Natural for Ajax / Ajax Developer

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This section describes new features and enhancements in Natural for Ajax and Ajax Developer. It covers the following topics:

- [Responsive Tab Controls](#)
- [BMOBILE:ALERT](#) with new Property duration
- [BMOBILE:PANEL](#) with new Property foldedprop
- [BMOBILE:FORMAREA](#) with new Properties legendprop, visibleprop and invisiblemode
- [BMOBILE:FORMAREA](#) with new Properties textid and nameprop
- [BMOBILE:FORMGROUP](#) with new Properties visibleprop and invisiblemode
- [BMOBILE:CHECKBOX](#) with new properties
- [New Responsive Control BMOBILE:RADIOBUTTON](#)
- [New Responsive MEDIA Controls](#)
- [New Responsive Side Navigation Controls](#)
- [BMOBILE:NAVBAR](#) with new Property brandstraighttext
- [BMOBILE:SIMPLEGRID](#) with Editable Columns
- [DATEINPUT2: Custom Holiday Rendering](#)
- [DATEINPUT2](#) with new Property popuponF4F7
- [DATEINPUT](#) and [DATEINPUT2](#) now support Property testtoolid
- [NaturalAjax Samples](#)
- [PDF Reports - Upgrade to Version FOP 2.2](#)
- [CSVCOLUMN](#) now supports Properties njx:natname and njx:natstringtype
- [Responsive Style Guide](#)
- [Layout Painter with real HTML Preview](#)
- [Changed Project Default Setting for Layout Painter Preview](#)

### Responsive Tab Controls

A set of responsive tab controls has been added:

- [BMOBILE:TABPANE](#),
- [BMOBILE:VERTICALTABPANE](#),
- [BMOBILE:TAB](#),
- [BMOBILE:TABSUBPAGES](#),
- [BMOBILE:VERTICALTABSUBPAGES](#),

- BMOBILE:STRAIGHTTAB,
- BMOBILE:PAGER.

### **BMOBILE:ALERT with new Property duration**

For the BMOBILE:ALERT control, you can now define the duration after which the alert box will disappear.

### **BMOBILE:PANEL with new Property foldedprop**

For the BMOBILE:PANEL container, you can now control the folded state dynamically from your Natural program.

### **BMOBILE:FORMAREA with new Properties legendprop, visibleprop and invisiblemode**

For the BMOBILE:FORMAREA container, you can now control the visible state and the name of the legend dynamically from your Natural program.

### **BMOBILE:FORMAREA with new Properties textid and nameprop**

For the BMOBILE:FORMAREA container, you can now dynamically define the name from your Natural program and from multilanguage files.

### **BMOBILE:FORMGROUP with new Properties visibleprop and invisiblemode**

For the BMOBILE:FORMGROUP container, you can now control the visible state and the name of the legend dynamically from your Natural program.

### **BMOBILE:CHECKBOX with new properties**

Some advanced properties have been added to the BMOBILE:CHECKBOX control.

### **New Responsive Control BMOBILE:RADIOBUTTON**

A responsive radio button control BMOBILE:RADIOBUTTON is now available.

## **New Responsive MEDIA Controls**

The responsive controls BMOBILE:VIDEO, BMOBILE:MEDIAUPLOAD and corresponding sub-controls have been added to integrate and upload media objects.

## **New Responsive Side Navigation Controls**

The controls BMOBILE:SIDENAV, BMOBILE:NAVTREE and BMOBILE:SIDENAVCONTENT support the implementation of responsive side navigation using a responsive navigation tree.

## **BMOBILE:NAVBAR with new Property brandstraighttext**

For the BMOBILE:NAVBAR control, you can now set text and images as value of the brandprop property. Via the new property brandstraighttext you can distinguish between the representation.

## **BMOBILE:SIMPLEGRID with Editable Columns**

The BMOBILE:SIMPLEGRID control now supports editable columns. See the corresponding sample in the Natural Ajax Demos for details.

## **DATEINPUT2: Custom Holiday Rendering**

Support to render custom holidays in different style has been added to the DATEINPUT2 control. For details, please refer the new properties HOLIDAYS\* and the corresponding sample in the Natural Ajax Demos.

## **DATEINPUT2 with new Property popuponF4F7**

For the DATEINPUT2 control, you can now customize whether or not the calendar should open on using the F4 or F7 key.

## **DATEINPUT and DATEINPUT2 now support Property testtoolid**

The DATEINPUT and DATEINPUT2 controls now support the property testtoolid.

## **NaturalAjax Samples**

The samples now contain an additional user interface component with performance hints for non-responsive layouts and containers.

## PDF Reports - Upgrade to Version FOP 2.2

FOP 2.2. is now used for the PDF report generation in Natural for Ajax. This version requires more Java memory. When using this feature you might have to increase the configuration settings for Java memory in your web application server.

For details concerning Java memory settings, please refer to the documentation of your web application server.

## CVSCOLUMN now supports Properties `njx:natname` and `njx:natstringtype`

The CVSCOLUMN control now supports the properties `njx:natname` and `njx:natstringtype`.

## Responsive Style Guide

For responsive pages a style guide is now available. You find the latest version in the NaturalAjaxDemos NaturalONE project.

## Layout Painter with real HTML Preview

The HTML Preview in Layout Painter now supports selection and drag and drop functionality similar to the SWT Preview. With this feature you can develop your layouts with the real rendering and your own stylesheets.

## Changed Project Default Setting for Layout Painter Preview

The default setting for the **Layout Display Mode** has been changed to "HTML".

## Natural Tools and Utilities

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The new SYSUTIL utility enables you to start selected Natural tools and utilities from NaturalONE. In general, it starts character based tools on the server side. Additionally, it offers new rich GUI interfaces to the SYSEXT and SYSEXV utilities and a rich GUI tool to retrieve error messages.

The list of tools provided in SYSUTIL can be extended so that it also shows your own tools and applications.

For detailed information see *Using Natural Tools and Utilities* in the *Using NaturalONE* documentation.

## NaturalONE in a Citrix Environment

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NaturalONE can be installed and is supported running under Windows Remote Desktop Services on all from Software AG supported Windows Server Platforms allowing parallel user access via Windows remote desktop connections. NaturalONE is also intended to be installed and to run on Citrix Xenapp environments. However issues caused by NaturalONE that are related to the Citrix Xenapp environment or its configuration need to be reproduced under Windows Remote Desktop Services on a currently supported Windows Server platform first before further analysis can take place.