Natural for Ajax

Release Notes

Version 9.3.3

October 2025

ADABAS & NATURAL

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1 About this Documentation

Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
`Monospace font`	Identifies service names and locations in the format *folder.subfolder.service*, APIs, Java classes, methods, properties.
Italic	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

Product Documentation

You can find the product documentation on our documentation website at **https://documentation.softwareag.com**.

Product Training

You can find helpful product training material on our Learning Portal at **https://learn.softwareag.com**.

Tech Community

You can collaborate with Software GmbH experts on our Tech Community website at **https://tech-community.softwareag.com**. From here you can, for example:

- Browse through our vast knowledge base.

- Ask questions and find answers in our discussion forums.

- Get the latest Software GmbH news and announcements.

- Explore our communities.

- Go to our public GitHub and Docker repositories at **https://github.com/softwareag** and **https://hub.docker.com/publishers/softwareag** and discover additional Software GmbH resources.

Product Support

Support for Software GmbH products is provided to licensed customers via our Empower Portal at **https://empower.softwareag.com**. Many services on this portal require that you have an account. If you do not yet have one, you can request it at **https://empower.softwareag.com/register**. Once you have an account, you can, for example:

- Download products, updates and fixes.

- Search the Knowledge Center for technical information and tips.

- Subscribe to early warnings and critical alerts.

- Open and update support incidents.

- Add product feature requests.

Data Protection

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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Additional Product Information

Beside this product documentation, additional product information is available at the following places:

- The Knowledge Center at *https://empower.softwareag.com/*.
- The Natural for Ajax discussion forum at *https://tech.forums.softwareag.com/*.

Prerequisites

For detailed information on the supported operating systems, application servers, web containers, web browsers, and other prerequisites, see *System Requirements*.

New Features in Version 9.3.3

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- New Responsive Control BMOBILE:ACCORDION
- New Responsive Control BMOBILE:FILEDOWNLOAD
- New Responsive Control BMOBILE:FILEUPLOAD
- New Responsive Control BMOBILE:GRID
- New Responsive Sidebar Controls
- New Bootstrap 5 Support
- New BMOBILE:FTEXT Control
- New BMOBILE:THEMESWITCH Control
- New Properties for BMOBILE:CHECKBOX
- New Properties for BMOBILE:RADIOBUTTON
- Floating Label Support for Responsive Input Controls
- New statusmessage Property for Responsive Input Controls
- NEWSFEED Control Removed

- Software GmbH security Infrastructure Login Modules Removed

New Responsive Control BMOBILE:ACCORDION

BMOBILE:ACCORDION is a responsive container control which supports organizing content into expandable accordion items, each toggled by clicking its header. As content, you can show arbitrary controls and containers. For details, see BMOBILE:ACCORDION.

New Responsive Control BMOBILE:FILEDOWNLOAD

BMOBILE:FILEDOWNLOAD is a responsive media control which supports downloading a document from the Natural server when a button or link is clicked. For details, see BMOBILE:FILE-DOWNLOAD.

New Responsive Control BMOBILE:FILEUPLOAD

BMOBILE:FILEUPLOAD is a responsive control for uploading all kinds of files from the client to the Natural server. It supports drag-and-drop and a browse dialog for a smoother, more modern user experience. For details, see BMOBILE:FILEUPLOAD.

New Responsive Control BMOBILE:GRID

BMOBILE:GRID is a responsive grid control in which you can use input controls such as BMOBILE:FFIELD and BMOBILE:CHECKBOX. It also supports advanced features such as export functionality, filtering columns, and freezing columns to the left and right. For details, see BMOBILE:GRID.

New Responsive Sidebar Controls

The new controls BMOBILE:OFFCANVAS, BMOBILE:OFFCANVASHEADER, BMOBILE:OFFCANVASBODY, BMOBILE:DYNCANVAS and BMOBILE:NAVMENU2 can be used to implement modern sidebars. These controls allow you to integrate contextual details and dynamic navigation without disrupting the main content of your pages. For details, see BMOBILE:OFFCANVAS, BMOBILE:DYNCANVAS, and BMOBILE:NAVMENU2.

New Bootstrap 5 Support

Now Bootstrap 5 is also supported. For details and migration see section Bootstrap 4 and 5.

New BMOBILE:FTEXT Control

A new form text control to show additional information related to form fields. See section BMOBILE:FTEXT.

New BMOBILE:THEMESWITCH Control

This control supports switching dynamically between dark and light mode at runtime for all Ajax pages of your web application. See section BMOBILE:THEMESWITCH.

New Properties for BMOBILE:CHECKBOX

Responsive checkboxes can now be rendered reverse and as toggle button. See section BMOBILE:CHECKBOX.

New Properties for BMOBILE:RADIOBUTTON

Responsive radio buttons can now be rendered reverse. See section BMOBILE:RADIOBUTTON.

Floating Label Support for Responsive Input Controls

All input controls now support floating labels. A floating label is a label that moves above the input field when the user clicks on, or types into the field.

New statusmessage Property for Responsive Input Controls

The new `statusmessage` property supports display of additional help texts with specific rendering, depending automatically on the `statusprop` value.

NEWSFEED Control Removed

The deprecated NEWSFEED control has been removed from the product.

Software GmbH security Infrastructure Login Modules Removed

The Software GmbH security Infrastructure Login Modules, such as the SAMLArtifactLoginModule and the corresponding integration support, have been removed from the product. Use the OpenID Connect support instead.

New Features in Version 9.3.2

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- Customization of Century Completion during Date Input
- Modernized Administration and Configuration Tools
- flushmethod in FIELD Control now supports JavaScript
- BMOBILE:ICON now supports popovers
- Enhanced error marking for BMOBILE:FIELD
- New version of Bootstrap Icons
- XCIPOPUPMENU Control: Field originatorquery has been removed
- BMOBILE:DROPDOWN and BMOBILE:DROPDOWNLIST now support Icons
- Usage of Software GmbH security Infrastructure Login Modules is Deprecated
- BMOBILE:ALERT: New Property onclosemethod
- Single Sign-On (SSO) with OpendID Connect
- New Support for JBoss EAP 8 and Wildfly 32
- RCHART and RPIECHART Controls - chartjs 4.4.3
- New Ajax Configuration Parameter resetstatuspropfocus
- TEXT Control: New Property autowordwrap

Customization of Century Completion during Date Input

When entering date input values, the automatic century completion can be customized. See the new *cisconfig.xml* setting `completedateinputrange`.

Modernized Administration and Configuration Tools

The tools for administration and configuration of Natural for Ajax applications are modernized. The new package called "Runtime Tools" now contains the tools for Session configuration, Logging configuration, Monitoring, and a new Ajax Configuration Editor to edit cisconfig.xml settings.

flushmethod in FIELD Control now supports JavaScript

Now you can also apply a JavaScript function as flushmethod in the FIELD Control.

BMOBILE:ICON now supports popovers

Use the new property `popovertextid` and the new css classes `helpicon` and `helpicon-svg` to open popovers. See the NaturalAjaxDemos for samples.

Enhanced error marking for BMOBILE:FIELD

The error marking of BMOBILE:FIELD in case of a wrong input has been enhanced. You can now mark the container of the input field as an error. See the NaturalAjaxDemos for samples.

New version of Bootstrap Icons

More than 100 new icons available.

XCIPOPUPMENU Control: Field originatorquery has been removed

The field `originatorquery` is not generated for the XCIPOPUPMENU anymore.

BMOBILE:DROPDOWN and BMOBILE:DROPDOWNLIST now support Icons

Use the new properties `icon/iconprop` and `withicon` to add icons to your dropdowns. See the NaturalAjaxDemos for samples.

Usage of Software GmbH security Infrastructure Login Modules is Deprecated

The usage of the Software GmbH security Infrastructure Login Modules like the SAMLArtifactLoginModule is deprecated and will be removed for the next release. Use the new OpenID Connect support instead.

BMOBILE:ALERT: New Property onclosemethod

You can now trigger an event in your Natural program when the end-user closes the alert.

Single Sign-On (SSO) with OpendID Connect

Natural for Ajax now supports single sign-on with OpenID Connect. For more information see *Configuring Single Sign-On (SSO)*

New Support for JBoss EAP 8 and Wildfly 32

JBoss EAP 8 and Wildfly 32 are based on Jakarta EE 10. Use the migrated cisnatural.war from subfolder WildFlyJakarta.

RCHART and RPIECHART Controls - chartjs 4.4.3

The chartjs version for RCHART and RPIECHART has been upgraded to chartjs 4.4.3. See the Migration Notes.

New Ajax Configuration Parameter resetstatuspropfocus

When using the statusprop values ERROR, FOCUS or FOCUS_NO_SELECT an automatic reset is now supported so that the focus setting is only set once. See Ajax Configuration.

TEXT Control: New Property autowordwrap

The TEXT control now supports the property autowordwrap in combination with maxrowlength/maxrowlengthprop and maxrows/maxrowsprop.

New Features in Version 9.3.1

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- Docker Support
- Xalan Replaced by a New Implementation
- Removed Controls: LINECHART, NETMEETING and SKYPECALL
- New Responsive Control BMOBILE:CARD
- BMOBILE:DATATREE: New Property openonselect
- New Responsive Control BMOBILE:LISTGROUP
- BMOBILE:SIMPLEGRID: Frozen Columns
- BMOBILE:SIMPLEGRID: Keyboard Focus
- BMOBILE:SIMPLEGRID: New Property triggersearchprop
- BMOBILE:SIMPLEGRID: New Property withkeyboardfocus
- ROWTABLEAREA2: Frozen Columns
- Support of custom dates in DATEINPUT2
- Bootstrap-Icons Upgraded to Version 1.10.5
- TAB Key for DISPLAY Input Controls
- Generation of Parameter Data Area Supported
- Enhanced Accessibility Support
- NaturalAjaxDemos with Search and Navigation
- Web Service for Optimize for Infrastructure Retired

- Enhanced License Check Support

Docker Support

With this version, the Natural for Linux and Cloud 3.1 installation also contains a Natural for Ajax docker use case. For the general information about the docker use cases, see the Natural documentation. For the details of the Natural for Ajax docker use case, see the readme file in the directory *<install_dir>/Natural/docker/NaturalAjax*.

Xalan Replaced by a New Implementation

The 3rd party Xalan component is not part of the product anymore. It has been replaced by a new implementation that fully supports the functionality used in Natural for Ajax and NaturalONE. In case you have been using features beyond this functionality in your Java components and discover issues, you can switch on the original Xalan support via the setting `sdofullxpath` in *cisconfig.xml*. For details see *General cisconfig.xml Parameters* > `sdofullpath`.

Removed Controls: LINECHART, NETMEETING and SKYPECALL

The deprecated controls LINECHART, NETMEETING, and SKYPECALL have been removed from the product. Instead, use RCHART and RPIECHART for chart controls .

New Responsive Control BMOBILE:CARD

BMOBILE:CARD is a container control with options for headers, footers, images, text and more content. For details, see BMOBILE:CARD.

BMOBILE:DATATREE: New Property openonselect

Per default, tree nodes are opened when selecting the text of the corresponding node. Via the property `openonselect` you can customize this behavior. See BMOBILE:DATATREE.

New Responsive Control BMOBILE:LISTGROUP

A list group displays a number of items as a vertical list. For details, see BMOBILE:LISTGROUP.

BMOBILE:SIMPLEGRID: Frozen Columns

The responsive grid BMOBILE:SIMPLEGRID now supports to freeze columns to the left and to the right.

BMOBILE:SIMPLEGRID: Keyboard Focus

The responsive grid BMOBILE:SIMPLEGRID now supports keyboard navigation thru the single columns of the grid.

BMOBILE:SIMPLEGRID: New Property triggersearchprop

Via the new property `triggersearchprop`, you can now set search values and trigger a search from your Natural program. See BMOBILE:SIMPLEGRID.

BMOBILE:SIMPLEGRID: New Property withkeyboardfocus

Keyboard navigation for columns, rows and pages is now supported. Use the new property `withkeyboardfocus`. See BMOBILE:SIMPLEGRID.

ROWTABLEAREA2: Frozen Columns

ROWTABLEAREA2 with GRIDCOLHEADER controls now supports freezing columns to the left. The number of frozen columns can be defined at design time, or dynamically at runtime, and via click by the application's end-users. See section *ROWTABLEAREA2 - The Flexible Control Grid*

Support of custom dates in DATEINPUT2

DATEINPUT2 now supports special handling of custom dates. See *DATEINPUT2 – Custom Dates*

Bootstrap-Icons Upgraded to Version 1.10.5

Version 1.10.5 contains over 1800 icons.

TAB Key for DISPLAY Input Controls

The file *cisconfig.xml* now supports the new settings `displayallowtab`. Use this setting to configure whether tabbing into `DISPLAY` input controls is possible or not. See *Ajax Configuration* for details.

Generation of Parameter Data Area Supported

Optionally, you can now generate a Natural Parameter Data Area (PDA) for a layout. This PDA avoids manual updates of Local Data Areas in your Natural programs in case of layout changes.

The context is explained in *Natural Pages Development > Generating the Adapter*.

Enhanced Accessibility Support

Many accessibility features have been added to the product, such as labels, language information, and roles. Corresponding samples are available in the NaturalAjaxDemos. See section *Accessibility*

NaturalAjaxDemos with Search and Navigation

The NaturalAjaxDemos now come with search and navigation support to find and explore the samples.

Web Service for Optimize for Infrastructure Retired

The web service NJXOptimizeService.war has been removed from the product.

Enhanced License Check Support

You now get informed about license expiration 40 days before the license expires. For details see *License Check*

New Features in Version 9.2.1

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- Java 11 Required
- Support for Tomcat10 and JBoss EAP
- Long Username Support for Natural on Linux
- New Responsive Tutorial
- Customization of Whitespace handling for PDF Generation
- Layout Painter: Support for Responsive Style Classes
- DATEINPUT2 and BMOBILE:DATEINPUT2: new properties serverformat, clientformat, firstdayinweek
- FIELD: new property placeholder
- ROWTABLEAREA2: Export of Headers
- TEXTGRIDSSS2: new property cursormgtprop
- Customization of Responsive Style via SASS now Supported
- New Ajax Configuration Parameter notifyparentonpopupclosed

- Support PROCESS PAGE MODAL in Responsive Pages
- New Responsive Control: BMOBILE:DATATREE
- Support for <ctrl><enter> in BUTTON controls
- Removal of Deprecated Controls: BMOBILE:SIDENAV, BMOBILE:NAVTREE, BMOBILE:SIDENAV-CONTENT
- NEWSFEED Control Deprecated
- Using Bootstrap 3 is Deprecated

Java 11 Required

Java 11 is now required for development and production environments.

Support for Tomcat10 and JBoss EAP

Tomcat10 and JBoss EAP are now supported

For detailed information see System Requirements.

Long Username Support for Natural on Linux

Long usernames support of Natural on Linux can now be used with Natural for Ajax.

New Responsive Tutorial

A responsive tutorial to develop a responsive mini-application is available. See First Steps Responsive Pages.

Customization of Whitespace handling for PDF Generation

You can now customize the whitespace handling in CISFO:* and REPORT* controls. For more information see the chapter *Working with PDF Documents > Advanced Data Binding and Rendering > Whitespace Handling*.

Layout Painter: Support for Responsive Style Classes

Layout Painter has extended the support for adding styleclasses on responsive pages. A corresponding dialog allows convenient selection among the most popular classes for a control. A help text explains the usage for each class.

DATEINPUT2 and BMOBILE:DATEINPUT2: new properties serverformat, clientformat, firstdayinweek

As of this version, the client date format (Browser), the server date format (Natural), and the first day of the week, can be controlled via design-time properties.

All details are documented here:

Working with Controls > DATEINPUT2 > Customizing Date and Calendar Formats
Responsive Page Layout and Controls > BMOBILE:DATEINPUT2 > Customizing Date and Calendar Formats

FIELD: new property placeholder

In FIELD controls you can now add an initial placeholder text.

See FIELD for Natural and FIELD for Java.

ROWTABLEAREA2: Export of Headers

Exporting the grid headers is now supported. It can be activated and deactivated dynamically. See ROWTABLEAREA2 for Natural and ROWTABLEAREA2 for Java for more information.

TEXTGRIDSSS2: new property cursormgtprop

You can now dynamically reset the keyboard cursor of the grid from within your Natural program.

Customization of Responsive Style via SASS now Supported

You can now easily customize your responsive style via SASS variables. See *Responsive Page Layout > Styling a Responsive Page*.

New Ajax Configuration Parameter notifyparentonpopupclosed

You can now customize whether or not a Natural program receives a "nat:page.default" event when a pop-up is closed. For details, see section *Configuration and Administration > Ajax Configuration*.

Support PROCESS PAGE MODAL in Responsive Pages

Responsive pages now also support opening pop-ups dynamically via the Natural statement PROCESS PAGE MODAL. For details, see section *Natural Page Layout > Working with Pop-Ups > Pop-Ups - Responsive Pages*.

New Responsive Control: BMOBILE:DATATREE

The `BMOBILE:DATATREE` control is a responsive tree control, which supports levels deeper than 2 and dynamic loading of subtrees.

For details, see section *Responsive Page Layout > Responsive Trees > BMOBLE:DATATREE*

Support for <ctrl><enter> in BUTTON controls

Responsive and non-responsive BUTTON controls now support the activation via <ctrl><enter>. This can be switched on for all buttons on a page. See the `buttonctrlenter` property in the NATPAGE control.

This property can be switched on for all pages in the application. See the `buttonctrlenter` property in the *cisconfig.xml* file.

Removal of Deprecated Controls: BMOBILE:SIDENAV, BMOBILE:NAVTREE, BMOBILE:SIDENAVCON-TENT

The deprecated controls `BMOBILE:SIDENAV`, `BMOBILE:NAVTREE`, and `BMOBILE:SIDENAVCONTENT` have been removed. Use `BMOBILE:SIDEBAR*`, `BMOBILE:HORIZONTALBAR`, `BMOBILE:CONTENT`, and the new `BMOBILE:DATATREE` control instead.

NEWSFEED Control Deprecated

The NEWSFEED control is now deprecated. It requires *rome-0.9.jar*. The *rome-0.9.jar* is not packaged with Natural for Ajax anymore. The *rome-0.9.jar* uses JDOM.

JDOM has been removed from Natural for Ajax.

Using Bootstrap 3 is Deprecated

Responsive pages per default use Bootstrap 4. Using Bootstrap 3 in responsive pages is deprecated.

New Features in Version 9.1.4

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- Edge Chromium Browser
- Bootstrap Icons Library
- New Responsive Controls: BMOBILE:COMBOFIX, BMOBILE:COMBODYN
- New Responsive Dropdown Controls
- Responsive Controls with new Properties straighttext
- Responsive Controls with new Properties titlestraighttext
- BMOBILE:SIMPLEGRID: Server-Side Scrolling and Sorting
- BMOBILE:FFIELD: new property withtogglepassword
- ITR with New Property inline
- REPORT and REPORT2 Controls with New Property nameprop

Edge Chromium Browser

With this version of Natural for Ajax the Edge Chromium Browser is now supported.

Bootstrap Icons Library

The Bootstrap Icons Library is now part of the Natural for AJAX product. It can be used in responsive and non-responsive controls in different ways. See *Working with Icons* for more information.

New Responsive Controls: BMOBILE:COMBOFIX, BMOBILE:COMBODYN

The `BMOBILE:COMBOFIX` and `BMOBILE:COMBODYN` are light-weight selection controls.

See *Responsive Natural Page Layout > Responsive Controls* for more information.

New Responsive Dropdown Controls

The controls `BMOBILE:DROPDOWN`, `BMOBILE:DROPDOWNLIST`, `BMOBILE:DROPDOWNHEADER`, `BMOBILE:DROPDOWNITEM`, `BMOBILE:DROPDOWNSEPARATOR` support various dropdown functionality such as dropdown menus and dropdown forms.

See *Responsive Natural Page Layout > Responsive Controls* for more information.

Responsive Controls with new Properties straighttext

All responsive controls with a `name/nameprop` property now also support a `straighttext` property. Via this property, the name value can be rendered either as html or as straight text.

Responsive Controls with new Properties titlestraighttext

All responsive controls with a `title/titleprop` property now also support a `titlestraighttext` property. Via this property, the tooltips can be rendered either as html or as straight text.

BMOBILE:SIMPLEGRID: Server-Side Scrolling and Sorting

The responsive grid `BMOBILE:SIMPLEGRID` now supports Server-Side Scrolling and Sorting.

BMOBILE:FFIELD: new property withtogglepassword

For password fields you can now add an icon to toggle the password visibility.

ITR with New Property inline

ITR controls now support inline rendering via the new `inline` property. This improves the rendering when zooming pages in Google Chrome or Edge Chromium browsers. See section *Working with Containers > Positioning of Controls inside a Container > ITR in Google Chrome and Edge Chromium* for Natural and Java.

REPORT and REPORT2 Controls with New Property nameprop

The REPORT and REPORT2 controls now also support to set the name dynamically at runtime via the property `nameprop`.

New Features in Version 9.1.3

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- Responsive NatLogon and NatDisconnect Pages Supported
- Bootstrap 4 Supported in Responsive Pages
- Support for Natural-specific Properties like njx:natname in Responsive Controls
- PAGEBODY Container obsolete for Responsive Controls
- New Template for Responsive Pages with Sidebar
- Major Enhancements of Responsive Forms
- Enhanced Tooltip Support for Responsive Controls
- BMOBILE:COL: visisbleprop now supported
- Enhanced Testing Support for Responsive Controls
- New Responsive Containers: BMOBILE:SIDEBAR*, BMOBILE:HORIZONTALBAR, BMOBILE:CON-TENT
- Help IDs supported in Responsive Input Controls
- Page Pop-Ups Fit to Parent
- FIELD Control: New Value in Property formautocomplete Supported
- FIELD Control With New properties onclickmethod and ondblclickmethod
- RPIECHART With New Property animateselection
- Several Responsive Modal Enhancements
- Natural Web I/O Pages Support Additional JavaScript file

Responsive NatLogon and NatDisconnect Pages Supported

Responsive and non-responsive NatLogon and NatDisconnect pages are now supported.

Bootstrap 4 Supported in Responsive Pages

Bootstrap 4 is now supported for responsive controls. Bootstrap 4 is the default. If you still need to use Bootstrap 3, you can use the attribute `uselatestbootstrap` in *cisconfig.xml* to run all pages with Bootstrap 3 or use the property `uselatestbootstrap` in the NATPAGE control to run a single page with Bootstrap 3

See *Ajax Configuration* for details.

Support for Natural-specific Properties like njx:natname in Responsive Controls

Most responsive controls now support Natural-specific properties like `njx:natname` in the same way as non responsive controls.

PAGEBODY Container obsolete for Responsive Controls

The `PAGEBODY` tag is now obsolete for responsive controls. The templates for responsive pages do not contain the `PAGEBODY` tag anymore. Responsive pages with `PAGEBODY` tags are still supported but contain obsolete HTML code.

New Template for Responsive Pages with Sidebar

The Layout Painter supports a new page template for development of responsive pages with sidebars. See also *Responsive Natural Page Layout* for further details.

Major Enhancements of Responsive Forms

A more flexible and lightweight `BMOBILE:FORM` container is now supported. The `BMOBILE-FORMGROUP` containers now supports horizontal and vertical forms. For the usage in bar controls - like the `BMOBILE:HORIZONTALBAR` and the `BMOBILE:SIDEBAR` - a `BMOBILE:FORMINLINE` container is supported. A `BMOBILE:FTEXTOUT` control has been added to support plain read-only text in forms.

Enhanced Tooltip Support for Responsive Controls

Bootstrap 4 tooltip support is now used to render tooltips. The rendering can be customized via CSS style classes. All form controls now also support setting the tooltip text dynamically from within Natural. Use the property `titleprop` in the corresponding controls.

BMOBILE:COL: visisbleprop now supported

The `BMOBILE:COL` container now supports a `visibleprop` property.

Enhanced Testing Support for Responsive Controls

Most responsive containers and controls now support a `testtoolid` property.

New Responsive Containers: BMOBILE:SIDEBAR*, BMOBILE:HORIZONTALBAR, BMOBILE:CONTENT

The new responsive containers `BMOBILE:SIDEBAR*`, `BMOBILE:HORIZONTALBAR` and `BMOBILE:CONTENT` support frequently used patterns for modern responsive pages.

Additional controls like `BMOBILE:TOGGLER`, `BMOBILE:SIDEBARGROUP`, `BMOBILE:BARTEXT` support corresponding functionality for flexible rendering.

Help IDs supported in Responsive Input Controls

Responsive input controls like `BMOBILE:FFIELD` now support a `helpid` property in the same way as non-responsive controls.

Page Pop-Ups Fit to Parent

The file *cisconfig.xml* now supports the new settings `pagepopuponresize`, `pagepopuphorizontal` and `pagepopupvertical`. Use these settings to fit a page pop-up to its parent.

See *Ajax Configuration* for details.

FIELD Control: New Value in Property formautocomplete Supported

The `formautocomplete` property of the `FIELD` and `BMOBILE:FFIELD` controls now supports the value `new-password`. In the current versions of Chrome, this can be used to prevent Chrome from autofilling form fields.

FIELD Control With New properties onclickmethod and ondblclickmethod

Natural programs can now react to click and/or double click events. Refer to the description of the `FIELD` control properties for details.

RPIECHART With New Property animateselection

Use the new `RPIECHART` property `animateselection` if you want to render the selected slice with a bigger radius (= move out effect).

Several Responsive Modal Enhancements

A new `BMOBILE:HELPMODAL` dialog shows help texts for specified help IDs. All responsive modal dialogs - `BMOBILE:MODAL`, `BMOBILE:INTMODAL`, `BMOBILE:HELPMODAL` - are now draggable and resizable.

For `BMOBILE:MODAL`, the page URL can now be specified dynamically at runtime.

Natural Web I/O Pages Support Additional JavaScript file

You can add own JavaScript to Natural Web I/O pages in a file *usernatunicscript.js*. See section *Natural Web I/O Style Sheets* for details.

New Features in Version 9.1.2

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- New Ajax Configuration Parameter urlopenstreetmapgeocoder
- AUTOCOMPLETE supports limiting the results shown in a drop-down box
- DATEINPUT2 with new Properties stylevariant and displayprop
- New Control REPORT2
- New Ajax Configuration Parameter maxserverlogage
- Support for editable columns in BMOBILE:SIMPLEGRID
- ROWTABLEAREA2 supports Export to Clipboard and File
- ROWTABLEAREA2 supports Icon Bars
- Layout Generation Enhancements
- Switch off Server Logging
- New Responsive Control BMOBILE:ICONCOL
- Responsive Modal Controls
- Icon Support in Responsive Controls

New Ajax Configuration Parameter urlopenstreetmapgeocoder

You can now adapt the third party geocoder URL in the Ajax configuration file if needed. See *Ajax Configuration* for details.

AUTOCOMPLETE supports limiting the results shown in a drop-down box

The `AUTOCOMPLETE` (Natural / Java) control now enables you to limit the results shown in the drop-down box. The `AUTOCOMPLETE` control now also has a new property `maxresults`. The `FIELD` (Natural / Java) control now has a new property `autocompleteresultsref`.

DATEINPUT2 with new Properties stylevariant and displayprop

DATEINPUT2 now supports the properties `stylevariant` and `displayprop` in the same way as the FIELD control.

New Control REPORT2

The REPORT2 control supports PDF report generation in responsive and non-responsive design. In difference to the REPORT control, it does not require to additionally render the data in the HTML pages.

New Ajax Configuration Parameter maxserverlogage

Automatic cleanup of *ServerLog*.log* files is now supported. You can configure the maximum storage age of *ServerLog*.log* files in days. See *Ajax Configuration* for details.

Support for editable columns in BMOBILE:SIMPLEGRID

BMOBILE:SIMPLEGRID now fully supports editable columns also on small devices.

ROWTABLEAREA2 supports Export to Clipboard and File

In ROWTABLEAREA2, all or just the selected items can now be copied to the clipboard or exported to a file. See *Export to Clipboard and File* in the description of the ROWTABLEAREA2 control grid for further details.

ROWTABLEAREA2 supports Icon Bars

ROWTABLEAREA2 supports the new controls ICONBAR, ICONBARLINE, TOCLIPBOARDICON, TOFILEICON and BLOCKSCROLLINGBAR. See *Icon Bars* in the description of the ROWTABLEAREA2 control grid for further details.

Layout Generation Enhancements

Performance of Layout generation has been improved. Also the analysis of generation errors has been simplified. See *Generating HTML Pages Using the Command Line* and the new attribute `htmlgeneratorlog` in the *Ajax Configuration* section.

Switch off Server Logging

You can now switch off writing log information to the server log. See `loglevel` in the *Ajax Configuration* section.

New Responsive Control BMOBILE:ICONCOL

BMOBILE:SIMPLEGRID now supports icon columns. See BMOBILE:ICONCOL for details.

Responsive Modal Controls

A set of responsive modal controls has been added:

- BMOBILE:INTMODAL,
- BMOBILE:INTMODALHEADER,
- BMOBILE:INTMODALBODY,
- BMOBILE:INTMODALFOOTER.

Icon Support in Responsive Controls

Many responsive controls now support icons as values for `name/nameprop` or as value for other text based properties. For examples see the Natural for Ajax Demos.

New Features in Version 9.1

This section describes new features and enhancements in Natural for Ajax which have been added with this release of Natural for Ajax.

- 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
- BMOBILE:NAVBAR with new Property brandstraighttext
- BMOBILE:SIMPLEGRID with Editable Columns
- DATEINPUT2: Custom Holiday Rendering
- DATEINPUT2 with new Property popuponF4F7
- DATEINPUT and DATEINPUT2 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
- Standalone SWT Client with Java Web Start
- Password Length 128

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.

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 to 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 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.

CSVCOLUMN 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.

Standalone SWT Client with Java Web Start

The standalone SWT Client, which is based on Java Web Start, is not part of the delivery anymore. Until October 2019 you can request the client in case you require it.

Password Length 128

Natural for Ajax now supports a password length of 128 for Natural servers which also support a password length of 128.