Release Notes for XPages Extension Library 8.5.3 (20111013-1854)

Contents:

Introduction

This release of the XPages Extension Library is particularly significant for a number of reasons. Specifically, it contains:

- A new version of mobile controls (previous versions were experimental)
- A new set of social capability tools (experimental)
- A new Extension Library tooling plug-in for Domino Designer
- Some new application templates
- A general runtime upgrade to support accessibility and localization requirements
- Many minor fixes and enhancements

New Mobile Controls
A new set of controls that provide support for building applications for mobile devices. The support includes:

- out of the box styles for iPhone and Android. Custom styles possible
- view control to display Domino views including all filter mechanisms as for desktop applications
- documents can be rendered easily via forms controls and manipulated as in desktop applications
- header, outline and tab bar controls
- dynamic content control to change a mobile page without reloading the whole page

This version is different from the OpenNTF project XPages Mobile Controls (http://mobilecontrols.openntf.org/). The main difference is that the new controls have been implemented as library controls so that they can be used in custom applications without having to copy and paste design elements.

Social Enabler
A new set of functionality that provides support needed to integrate Social capabilities into applications. The range of support includes:

- handling of OAuth including an OAuth token store
- APIs to invoke REST calls and parse JSON and XML results
- new data sources for IBM Connections, Dropbox, LotusLive Files and the Social
- Business Toolkit
- controls for Connections business cards, Sametime and Facebook
- proxy server infrastructure
- extensible user bean
- samples of how to access the IBM Social Business Toolkit

New Tooling
A new plug-in is available in this release by installing updateSiteOpenNTF-designer.zip. This update site also provides all of the features and plug-ins contained in updateSiteOpenNTF.zip (i.e. it is a superset that adds design-time features in addition to the base runtime features). The plug-in, com.ibm.xsp.extlib.designer.tooling, provides new basic Domino Designer visualizations for all Extension Library controls, as well as some enhanced visualizations for sophisticated controls like the ApplicatonLayout. Other enhancements include new specialized pickers to help assign property values when working in the All Properties panel, and some new design panels to help with the Data View and Dynamic Content controls.

New Templates
In this release you will find versions of the Notes/Domino Discussion and TeamRoom templates that have been extended to use new features from the latest release, namely discussion8xl.ntf and teamrm8xl.ntf.

You can use these templates to create XPages applications that will run on the web, the Notes client or on mobile devices. You are encouraged in particular to try the mobile app implementations - both from a developer and end-user standpoint. That is to say, these templates are a good sample reference point for anyone looking to get started with XPages mobile development, while evaluating the mobile applications as an end-user will enable you to give us invaluable feedback on its features or limitations and this help us make improvements in the future.

Enhanced Accessibility and Localization Support
Some of the controls and complex types in the XPages Extension Library were not fully compliant with accessibility and localization standards. A simple example would be the use of the 'title' attribute as a control label rather than as a descriptive tag for assistive technologies (such as screen readers, etc). Issues like this and others have been addressed in this release. Changes are largely but not solely confined to accessibilty and localization issues. A general review of all the runtime controls was carried out and some property name issues were fixed where necessary – say if a property was misnamed, or its function was duplicated by another property, and so forth. Such changes were minimized to those deemed essential.

Obviously changes of this nature can impact applications that are based on a prior version of the Extension Library. An application using a control property that has been renamed or removed will report an error in Domino Designer and no longer run with this version of the Extension Library. This document contains a short example to help you quickly address such issues as may arise in your applications when you upgrade to this release. It also contains a comprehensive listing of all property changes for reference purposes. Finally, all applications and templates included in this release have been upgraded to work "out-of-the-box" with these changes. It is anticipated that the general impact on pre-existing applications will be minimal.

These changes, and the new TeamRoom and Discsussion template offering, represent a vital step on the road to including Extension Library features in future IBM Lotus Notes & Domino Upgrade Packs.

Miscellaneous Fixes and Enhancements
Many minor fixes have been applied to the runtime in this release. Many of the control

property descriptions and tooltips have been updated in the review process wherever more detail was required. This process will be continued in future releases.

Package Description of Download

When you expand the zip encapsulating this release, ExtensionLibraryOpenNTF-853.yyyymmdd-hhmm.zip, you will see the following artifacts.

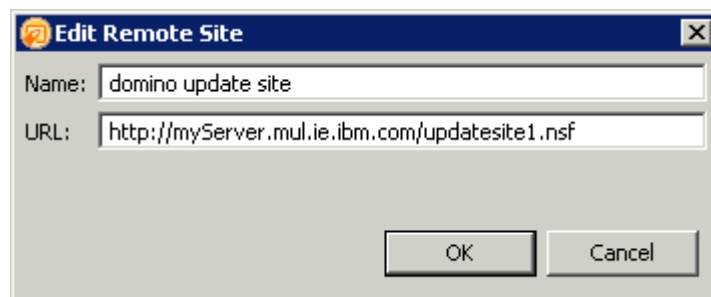| Artifact	Description
discussion8xl.ntf	A sample version of the Domino Discussion template based on this version XPages Extension Library and the 8.5.3 core. Content includes new mobile pages that provide a sample mobile UI for this application.
DominoDataServiceDoc.zip	HTML technical documentation describing the REST services included in this release of the XPages Extension Library.
Extension Library REST Services.pdf	Document providing overview and examples of the REST services included in the XPages Extersion Library.
ExtLib-Notes85.zip	Artifact used to help install Extension Library for Domino Designer
FirebugLiteLicense	License information for Firebug Lite client side debugger.
LICENSE	Details of the Apache License governing use, reproduction and distribution of the XPages Extension Library on OpenNTF.org.
NOTICE	File containing copyright notices from the various technologies that comprise this release of the Extension Library.
readme.pdf	The document you are reading now.
SLF4JLicense	License information for Simple Logging Facade for Java (SLF4J)
srcOpenNTF.zip	Archive file containing all the sources corresponding to the XPages Extension Library runtime (updateSiteOpenNTF.zip)
srcOpenNTF-designer.zip	Archive file containing all the sources corresponding to the Domino Designer tooling for XPages Extension Library runtime.
teamrm8xl.ntf	A sample version of the Domino Discussion template based on this version XPages Extension Library and the 8.5.3 core. Content includes new mobile pages that provide a sample mobile user experience.
updateSiteOpenNTF.zip	Eclipse updates site that includes all of the XPages Extension Library runtime features and plugins, including experimental plug-ins.
updateSiteOpenNTF-designer.zip	clipse updates site that includes all of the XPages Extension Library runtime features and plugins, including experimental plug-ins and Domino Designer tooling plug-ins.
WebSecurityStore.nsf	This is a new database used to store user credentials when an application needs to connect to third party servers. For example, it is used to store OAuth tokens, basic authentication information (user/pwd)... It contains a simple XPages based UI to access the information it manages.
XPages Extension Library - Slides.pdf	Collection of slides providing high level overview of XPages Extension Library concepts and features.
XPages Goes Relational.odp	Collection of slides covering various aspects of the new experimental RDBMS data sources included in the Extension Library. Provides high level coverage of roadmap, features and limitations.

XPages-Doc.zip	HTML documentation describing the controls and complex types that comprise this release of the XPages Extension Library. Describes all properties and object hierarchies.
XPagesExt.nsf	The standard demonstration application covering much of the XPages Extension Library controls. The XSP markup has been updated to account for changes to the underlying Extension Library control definitions.
XPagesJDBC.nsf	Sample application demonstrating new experimental RDBMS data sources.
XPagesSBT.nsf	This is a sample application showing the social capabilities added to XPages. It includes pages connecting to IBM Connections, Sametime, Dropbox, Facebook.. It defines endpoint beans, pointing to several servers (LotusLive, Lotus Greenhouse, Dropbox...). It is the place to go to understand the new XPages social capabilities.

Installation Instructions

For Domino 853 and the IBM XWork Server the preferred way to install and deploy the XPages Extension Library (updateSiteOpenNTF-designer.zip) is to use an UpdateSite template, as described in a dedicated article article entitled "XPages Extension Library Deployment in Domino 8.5.3 and IBM XWork Server", available on the web at this URL:
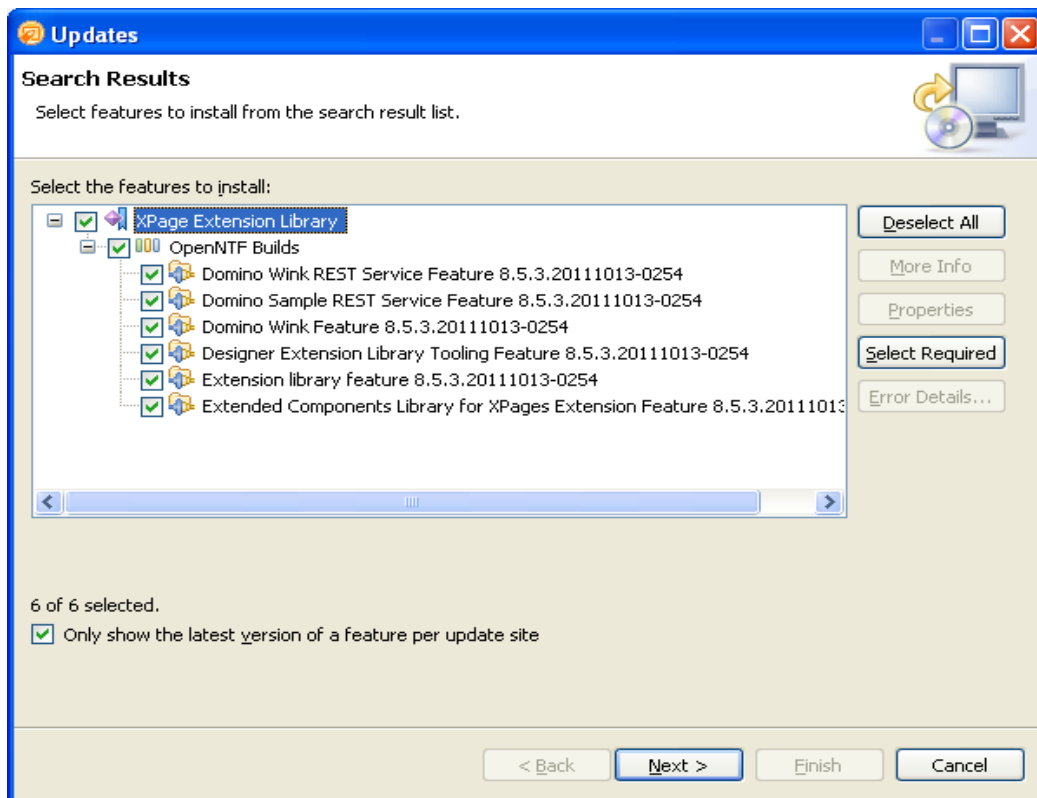
  - http://www-10.lotus.com/ldd/ddwiki.nsf/dx/XPages_Extension_Library_Deployment '.

For Domino Designer, the developer may install the Extension Library update site, using the same target. This can be achieved by selecting the **File > Application > Install** menu option in Domino Designer. Then from the **Install/Update** dialog, select to 'Search for new features to install'. On the following dialog select the button to add a remote location - add the URL to the above update site NSF as shown.

This will require Domino Designer to be restarted. Once this is completed, Domino Designer will have installed the same Extension Library that is deployed on the server.

There are other ways to install the library, like installing the updateSiteOpenNTF-designer.zip file into Designer or manually extracting the features and plugins from this zip to a physical location on the server file system (the domino\workspace\applications\eclipse subfolder under Domino root directory). When installing directly from the update site zip into Domino Designer, the following features will be displayed for selection.

For a wider deployment of the Extension Library to the Notes Client and/or Domino Designer, it is recommended to use the Widgets mechanism to distribute the library. This has been documented for 8.5.2 in a wiki article at the URL shown below. This process has not changed for 8.5.3, so the same steps can be followed. This method is not only preferred for wide scale deployments, but is also a superior solution when it comes to handling future library updates.

–   http://www-10.lotus.com/ldd/ddwiki.nsf/dx/Deploying_XPage_Libraries

Please note that the extended components library (the last checkbox option in the above dialog) includes both the RDBMS and SBT features. These are in an earlier stage of development than the regular Extension Library features, potentially subject to a greater degree of future change, and not scheduled for inclusion in the next IBM Lotus Notes & Domino 8.5.3 Upgrade Pack – unlike the other components included in this release.

Sample Upgrade Use Case

If you have an application based on a prior version of the Extension Library, it may not compile when opened in Designer with this release. An example is provided here using layout.xsp from the previous (Extension Library 8.5.2) TeamRoom template as an example.

The the unknown property "title" in the pageTreeNode is easy to fix. This property has been renamed to "label", so you should update your XSP markup by replacing the "title" property with the new "label" property. Simple.

The mobile controls have gone through a significant redesign. You could correct the errors in the MobileMain XPage by swapping property names as just demonstrated, and although the page will ultimately compile without errors, it will not be very functional. It is recommended that you move to the new template or remove MobileMain from your application instance and replace it with the various mobile pages from the current template (i.e. see mobile*.xsp)

Known Issues
There are a number of known issues in this release that are as yet unresolved:

- Delays maybe experienced some Android phones (EGLN8LGHWP)
  When transitioning between pages the user may experience some delays on some Android phones.

- Sticky scrollbars remain after transitioning to another page (EGLN8MAJ5K)
  The user may experience when navigating through a view, then opening a document and then navigating back go to the top of the view rather than from the position in the view where they were previously.

- Opening an empty discussion application on a mobile device shows a white space on the Page (EGLN8LFH3J)
  The Discussion template has been updated to use the Xpages Extension Library as well as having additional features such as the mobile application contained within this template. Upon opening it in a mobile device the user may see a white banner spanning the page if no document exists in the application.

- Meetings do not displaying in the Teamroom Calendar view in IE (LHEY8MJGVQ)
  There is an issue using the Calendar control in MS Internet Explorer where meetings do not display initially. Relaunching the browser works around this issue.

- Some international characters aren't handled correctly in Pickers (KGWG8LPDM8)
  Some native characters display corrupted in picker dialogs.

Supported Platforms

The IBM XPages Extension Library supports the same list of hardware and software configurations as IBM Notes Domino 8.5.3.

This particular version of the Extension Library was tested upon a number of additional platforms like the web kit browsers of Chrome and Safari and range of mobile devices, phones and tablets, namely the iOS and Android platforms. The Blackberry platform hasn't been used for testing.

Appendix 1

Difference Report Document

tag-name:xe:djDateTimeConstraints

Property	Status	Notes
formatLength	Changed from type int to String	

tag-name:xe:djTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:djValidationTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	

tag-name:xe:djNumberTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	
constraints	Changed to not allow runtime bindings	

tag-name:xe:djNumberSpinner

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	
constraints	Changed to not allow runtime bindings	

tag-name:xe:djCurrencyTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	
constraints	Changed to not allow runtime bindings	

tag-name:xe:djDateTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	
constraints	Changed to not allow runtime bindings	

tag-name:xe:djTimeTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	

constraints	Changed to not allow runtime bindings

tag-name:xe:djComboBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	

tag-name:xe:djFilteringSelect

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
regExpGenExt	Removed	

tag-name:xe:djTextarea

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:djSimpleTextarea

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:djButton

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:djToggleButton

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
checkedValue	Changed from type String to Object	
uncheckedValue	Changed from type String to Object	

tag-name:xe:djCheckBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
checkedValue	Changed from type String to Object	
uncheckedValue	Changed from type String to Object	

tag-name:xe:djRadioButton

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
selectedValue	Changed from type String to Object	

tag-name:xe:djHorizontalSlider

Property	Status	Notes
group	Removed	

forWaiValueNow   Removed

tag-name:xe:djVerticalSlider

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:djSliderRule

Property	Status	Notes
group	Removed	

tag-name:xe:djSliderRuleLabel

Property	Status	Notes
label	Added	

tag-name:xe:djSliderRuleLabels

Property	Status	Notes
group	Removed	
labelsList	Added	
constraints	Changed from type String to NumberConstraints	
	Changed to not allow runtime bindings	

tag-name:xe:djContentPane

Property	Status	Notes
group	Removed	

tag-name:xe:djTabContainer

Property	Status	Notes
group	Removed	

tag-name:xe:djTabPane

Property	Status	Notes
group	Removed	

tag-name:xe:djStackContainer

Property	Status	Notes
group	Removed	

tag-name:xe:djStackPane

Property	Status	Notes
group	Removed	

tag-name:xe:djBorderContainer

Property	Status	Notes
group	Removed	

tag-name:xe:djBorderPane

Property	Status	Notes
group	Removed	

tag-name:xe:djAccordionContainer

Property	Status	Notes

group   Removed

tag-name:xe:djAccordionPane

Property	Status	Notes
group	Removed	

tag-name:xe:djxDataGrid

Property	Status	Notes
group	Removed	
columnReordering	Removed	

tag-name:xe:djxDataGridColumn

Property	Status	Notes
draggable	Removed	

tag-name:xe:djextListTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
dataProvider	Changed to not allow runtime bindings	

tag-name:xe:djextNameTextBox

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:djextLinkSelect

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	
dataProvider	Changed to not allow runtime bindings	

tag-name:xe:selectImage

Property	Status	Notes
title	Added	

tag-name:xe:djextImageSelect

Property	Status	Notes
group	Removed	
forWaiValueNow	Removed	

tag-name:xe:pagerAddRows

Property	Status	Notes
disabledFormat	Added	

tag-name:xe:dataView

Property	Status	Notes
data	Changed to not allow runtime bindings	
summaryColumn	Changed to not allow runtime bindings	
iconColumn	Changed to not allow runtime bindings	
categoryColumn	Changed to type List	
	Changed to not allow runtime bindings	

tag-name:xe:forumView

Property	Status	Notes
data		Changed to not allow runtime bindings
summaryColumn		Changed to not allow runtime bindings

tag-name:xe:addRows

Property	Status	Notes
rows		Changed, Renamed to rowCount

tag-name:xe:viewSummaryColumn

Property	Status	Notes
converter		Changed to not allow runtime bindings

tag-name:xe:viewCategoryColumn

Property	Status	Notes
converter		Changed to not allow runtime bindings
columnName		Changed to be required

tag-name:xe:viewExtraColumn

Property	Status	Notes
converter		Changed to not allow runtime bindings

tag-name:xe:outline

Property	Status	Notes
treeRenderer		Changed to not allow runtime bindings

tag-name:xe:pageTreeNode

Property	Status	Notes
title	Removed	

tag-name:xe:valuePicker

Property	Status	Notes
dataProvider		Changed to not allow runtime bindings

tag-name:xe:namePicker

Property	Status	Notes
dataProvider		Changed to not allow runtime bindings

tag-name:xe:pickerValidator

Property	Status	Notes
dataProvider		Changed to not allow runtime bindings

tag-name:xe:tagCloud

Property	Status	Notes
cloudData		Changed to not allow runtime bindings

tag-name:xe:restService

Property	Status	Notes
service		Changed to not allow runtime bindings

tag-name:xe:dynamicContent

Property	Status	Notes
autoCreate	Removed	

tag-name:xe:dialog

Property	Status	Notes
group	Removed	

tag-name:xe:tooltipDialog

Property	Status	Notes
group	Removed	

tag-name:xe:applicationLayout

Property	Status	Notes
configuration	Changed to not allow runtime bindings Changed to be required	

tag-name:xe:applicationConfiguration

Property	Status	Notes
searchBar	Changed to not allow runtime bindings	

tag-name:xe:appSearchBar

Property	Status	Notes
pageName	Changed to be required	

tag-name:xe:ajaxBlock

Removed entire control

tag-name:xe:dominoViewListTreeNode

Property	Status	Notes
selection	Changed, Renamed to filter	

tag-name:xe:restViewColumn

Property	Status	Notes
name	Changed to be required	

tag-name:xe:viewJsonLegacyService

Property	Status	Notes
startKeys	Changed from type String to Object	
entryCount	Removed	

tag-name:xe:viewItemFileService

Property	Status	Notes
startKeys	Changed from type String to Object	
entryCount	Removed	

tag-name:xe:viewJsonService

Property	Status	Notes
startKeys	Changed from type String to Object	
entryCount	Removed	

tag-name:xe:viewXmlLegacyService

Property	Status	Notes
startKeys	Changed from type String to Object	
entryCount	Removed	

tag-name:xe:calendarView

Property	Status	Notes
autoResize	Removed	

tag-name:xe:listView

Property	Status	Notes
autoResize	Removed	
hideColumn	Changed, Renamed to hideColumns	
showColumnName4EmptyTitle	Changed, Renamed to showColumnNameForEmptyTitle	

tag-name:xe:listViewColumn

Property	Status	Notes
title	Changed, Renamed to columnTitle	

tag-name:xe:mApp

Changed, Renamed to xe:singlePageApp

tag-name:xe:singlePageApp

Property	Status	Notes
selectedPageId	Changed, Renamed to selectedPageName	
	Changed to be required	

tag-name:xe:mHeader

Removed entire control

tag-name:xe:djxmHeading

Property	Status	Notes
dragRestriction	Removed	
group	Removed	
waiRole	Removed	
waiState	Removed	
onBlur	Removed	
onClick	Removed	
onClose	Removed	
onShow	Removed	
onHide	Removed	
onDblClick	Removed	
onFocus	Removed	
onKeyDown	Removed	
onKeyPress	Removed	
onKeyUp	Removed	
onMouseDown	Removed	
onMouseEnter	Removed	
onMouseLeave	Removed	
onMouseMove	Removed	
onMouseOut	Removed	

onMouseOver   Removed
onMouseUp   Removed

tag-name:xe:djxmRoundRectList

Property	Status	Notes
dragRestriction	Removed	
group	Removed	
waiRole	Removed	
waiState	Removed	
onBlur	Removed	
onClick	Removed	
onClose	Removed	
onShow	Removed	
onHide	Removed	
onDblClick	Removed	
onFocus	Removed	
onKeyDown	Removed	
onKeyPress	Removed	
onKeyUp	Removed	
onMouseDown	Removed	
onMouseEnter	Removed	
onMouseLeave	Removed	
onMouseMove	Removed	
onMouseOut	Removed	
onMouseOver	Removed	
onMouseUp	Removed	

tag-name:xe:mLineItem
Changed, renamed to xe:djxmLineItem

tag-name:xe:djxmLineItem

Property	Status	Notes
iconUrl	Changed, renamed to icon	
targetPageId	Removed	
targetUrl	Changed, renamed to moveTo	
dojoType	Added	
dojoAttributes	Added	
style	Added	
styleClass	Added	
dir	Added	
lang	Added	
tooltip	Added	
label	Added	
rightTitle	Changed, renamed to rightText	

tag-name:xe:mPage
Changed, renamed to xe:appPage

tag-name:xe:appPage

Property	Status	Notes
pageName	Added	

tag-name:xe:djxmSegmentedButton

Removed entire control. Similar behaviour now provided by the xe:tabBar and xe:tabBarButton controls.

tag-name:xe:tabBar

Added new control

tag-name:xe:tabBarButton

Added new control

tag-name:xe:mBusinessCard

Removed entire control

tag-name:xe:djxmSwitch

Property	Status	Notes
dragRestriction	Removed	
group	Removed	
waiRole	Removed	
waiState	Removed	
onBlur	Removed	
onClick	Removed	
onClose	Removed	
onShow	Removed	
onHide	Removed	
onDblClick	Removed	
onFocus	Removed	
onKeyDown	Removed	
onKeyPress	Removed	
onKeyUp	Removed	
onMouseDown	Removed	
onMouseEnter	Removed	
onMouseLeave	Removed	
onMouseMove	Removed	
onMouseOut	Removed	
onMouseOver	Removed	
onMouseUp	Removed	

tag-name:xe:MobilePopupMenu

Removed entire control

tag-name:xe:MobileAccordionMenu

Changed, renamed to xe:mobileAccordionMenu

tag-name:xe:oneuiApplication

Property	Status	Notes
searchBar		Changed to not allow runtime bindings

tag-name:xe:jdbcConnectionManager

Moved to extlibx library.

tag-name:xe:jdbcQuery
Moved to extlibx library.

tag-name:xe:sqlParameter
Moved to extlibx library.

tag-name:xe:jdbcRowSet
Moved to extlibx library.