webMethods Mobile Suite 9.10 Readme

April 2016

This file contains important information you must read before using webMethods Mobile Suite 9.10. You can find system requirements, user documentation, and installation and upgrade instructions on the Documentation website or the TECHcommunity website. At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0   Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the Empower website.

Mobile Designer

- MOBILE-2012

Valid license keys are rejected when running on Windows 10.
When using Mobile Designer 9.10 on Windows 10, Mobile Designer may fail to verify a valid license key during ++*Activate-Handset* or *+Multi-Build* operations. This will give the error message "Wrong Key for this OS" in the output console, and open a window to select a new license key. To work around this issue, ensure the "select a license key" dialog window is closed, then open a command prompt and perform the actions given below. In this case, it is assumed that the base installation directory for Software AG products is "C:\SoftwareAG":

```
> cd C:\SoftwareAG

> copy install\jars\saglic-ALL-Any.jar MobileDesigner\Tools\Build\BuildScript\v1.0.0\saglic.jar

Overwrite MobileDesigner\Tools\Build\BuildScript\v1.0.0\saglic.jar? (Yes/No/All): y

    1 file(s) copied.
```

It will then be possible to continue to use Mobile Designer as normal with Windows 10. A fix will also be made available.

2.0 Known Issues

This section lists any issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

Mobile Designer

- MOBILE-1882
  Removing a nUINavView may cause a whole page to disappear (iOS).

  When removing a nUINavView from a current nUIWindowDisplay, it is possible that the contents of other views contained within that display may be affected. This can cause new nUIViewDisplay objects that are transitioned to after this point to appear empty. There is currently no workaround for this issue.

3.0 Usage Notes

This section provides any additional information you need to work with the current release of this product.

Mobile Designer

- Mobile Designer now provides the possibility to send messages between a running JavaScript instance within a *nUIWebView* or *nUIWebviewElement*, and compiled application code. Methods named *callJavaScript()* exist for the two NativeUI Objects. A method also exists in JavaScript that makes use of a new callback mechanism called *onJavaScriptCallback()* in *nUIWebviewCallbackExt*. Applications that do not wish to take advantage of this new functionality should implement *onJavaScriptCallback()* as an empty method. Further information is available in the "Native User

Interface Reference" documentation and the Javadoc shipped with the product. A new sample application, "NativeUI JS Map" is also provided as a further example.

- Mobile Designer now provides the possibility to associate custom URLs and MIME-types with mobile applications. Data sharing scenarios may be defined in handset targets or _defaults_.xml using the Ant task *<registerDataSharing>*. Messages will be passed into the application via methods in the *Application* class that developers may override. Further details of how to use this Ant task, as well as a list of allowed MIME-types can be found in the "Using webMethods Mobile Designer" documentation and the Javadoc shipped with the product.

- Mobile Designer now caches *javax.microedition.lcdui.Image* classes created through *Image.loadImage()* to improve performance and memory usage. This is a transparent change, enabled by default. Customers should be aware that images loaded and created this way will all share the same instance, so altering the image via the image's Graphics context will alter all references to that image. An image may be copied manually to avoid this behavior. Additional methods are provided in the *nUIController* class to manage images held in the cache, and to deactivate the cache altogether if it is not desired. Further information is available in the "Using webMethods Mobile Designer" documentation and the Javadoc shipped with the product.

- Mobile Designer now allows developers to use the *<addExtraLibs>* Ant-task for Android as well as iOS.

- A new class, *com.softwareag.mobile.md.text.DateFormat*, is provided to allow customers to gain access to native date formatting and parsing facilities of the mobile platform. Further information is available in the "Using webMethods Mobile Designer" documentation and the Javadoc shipped with the product.

- The *HttpConnectionHandler* class now supports the use of a POST-style body when sending DELETE requests.

- It is now possible to set the background color and "over-scrolling" behavior of nUIWebViews and nUIWebviewElements on Android and iOS. It is also possible to enable and disable the "scaling to fit" behavior found on iOS devices. Further information is available in the "Native User Interface Reference" documentation.

- The nUISearchEntry element on Android will provide an enhanced search entry field on handsets starting with Android API 14 (Android 4.0) based around the newer native widget provided by the platform. Further information is available in the "Native User Interface Reference" documentation.

- Two additional System.getProperty() properties are now available to developers in order to determine screen density and capabilities. They are "*mobiledesigner.android.display.dpi.class*" and "*mobiledesigner.android.display.capabilities*". Further information is available in the "Using webMethods Mobile Designer" documentation.

4.0   Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

Mobile Designer

Release 9.10

▪ WWW_9.9_MobileDesigner_Fix1

Mobile Development

Release 9.10

▪ WWG_9.9_MobileDevelopment_Fix1

5.0   Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

Mobile Designer

Release 9.10

▪ MOBILE-1821
  iOS: Back button removed on transition.
  When performing a transition to a new page, the header's back button could be removed if the keyboard was still opened. This issue has now been resolved.

▪ MOBILE-1687
  Phoney crashes on startup when rendering Windows Phone builds.
  Recent API changes reacted badly with the nUINavView representation on Phoney causing the application to throw an unexpected Exception. This has now been fixed.

▪ MOBILE-1639
  iOS: nUIWebviewElement can crash if a nUIWebViewCallback is not set.
  The nUIWebviewElement was expecting a nUIWebViewCallback class to be set, and was crashing due to a null pointer without it. This issue has now been resolved.

▪ MOBILE-1530
  iOS: Truncation incorrect for nUITextfieldElement.
  In situations where a textfield is inside a table and the text is too large for the maxLines parameter, Mobile Designer may potentially clip the text incorrectly. This issue has now been resolved.

- MOBILE-1374
  iOS: Crash when creating URL with invalid chars.
  In certain circumstances, iOS devices may crash when attempting to create HttpConnection Objects
  with invalid characters in the target URL. This issue has now been resolved.

- MOBILE-1155
  Android: List entries are wider in special cases.
  During rotation, Android devices may miscalculate the required dimensions for Table spacing. This
  issue has now been resolved.

- MOBILE-1154
  Windows 8: AppBar appears on screen during dialog transitions.
  When transitioning between multiple nUIDialogWindows, it is possible that the nUINavView will
  be shown unexpectedly. This has now been fixed.

- MOBILE-1138
  iOS: Rotating with the keyboard open can break layout.
  When rotating the handset, the area reserved for the keyboard to open can be retained even after
  the keyboard is closed, making it impossible to display content there. This issue has now been
  resolved.

- MOBILE-1124
  Windows Phone: Text Highlighting is not working in entry fields.
  With nUIEntryElements, events related to highlight and copy/paste are getting ignored and/or
  cancelled before the user can act on them. This issue has now been resolved.

Mobile Development

Release 9.10

- MOBILE-1952
  When using a RESTful service in the application model, the code generation resulted into errors,
  because of an issue within the underlying AML metamodel. The metamodel has been updated to
  resolve this issue.

- MOBILE-1822
  When using a SideView on the View the application starts with, the SideView could not be opened,
  because this use case was not taken into account. The API has been updated to resolve this issue.

- MOBILE-1718
  When using an Entity with a member of type Stack or Map, the code generation resulted into
  compilation errors. The code generation has been updated to resolve this issue.

- MOBILE-1712
  When using an Entity to Json transformer, the generated code invokes the transformer by passing
  the type TYPE_JSON_STRING. This is a semantically issue as the transformer returns a Json object

and not a plain String. The resolve has been resolved by changing the type to TYPE_JSON_OBJECT.

- MOBILE-1694
  When installing Mobile Suite on MacOS, the default installation directory for Mobile Designer is wrong. This happens because of an Eclipse 4.5 change on MacOS. The default installation directory now differentiates between various operation systems to resolve this issue.

- MOBILE-1679
  When installing Mobile Suite on MacOS, Mobile Development can not successfully be installed. The Eclipse setup has been updated to resolve this issue.

- MOBILE-1652
  When using a SideView, the managing SideViewController implementation sets the wrong size for the SideView on iOS retina devices. The API has been updated to take the retina scale into account.

- MOBILE-1392
  When using the JavaDoc for ContextKeyStore, users may be confused as the doc contains wrong information. The JavaDoc has been updated to resolve this issue.

- MOBILE-1276
  When writing Java code, users may be confused, because actual Java 5 (and above) syntax is not rejected automatically. Adding Java 5 (and above) causes the multi-build to return with compilation errors. The project's properties have been updated to compile against Java 4.

- MOBILE-1180
  When using {selectedObject} as expression for a binding and adding a Transformer NULL will be passed as bindings expect an expression within the {selectedObject}. The code generation has been updated to resolve this issue.

- MOBILE-1179
  When using a DataBinding with a DataTransformer within a Template, the instance variables, getter and imports for the DataTransformer will not be generated, which causes compilation errors.

6.0   Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

Mobile Designer

Release 9.10

The documentation has been updated.

Mobile Development

Release 9.10

The documentation has been updated.

7.0   Added, Removed, Deprecated, or Changed Items

This section lists features, functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

Release 9.10

Mobile Designer

Deprecated Item	Replacement, if any
The use of BeanShell for processing of the ResHandler is now deprecated.	Use the standard Java compile/execute setup.
iOS: The header-based dismissal mechanism for the keyboard/spinner will be replaced with another mechanism in later releases.	

8.0   Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

Release 9.10

Mobile Designer

Deprecated Parameter	Replacement, if any
In _defaults_.xml and/or handset targets	
project.handset.uses.libJPEG	
cpp.class.forname.inclusion.list	
cpp.class.forname.interfaces.inclusion.list	
cpp.class.newinstance.inclusion.list	
csharp.class.forname.inclusion.list	
csharp.class.forname.interfaces.inclusion.list	

Deprecated Parameter	Replacement, if any
csharp.class.newinstance.inclusion.list	
android.clean.source.folder	
android.direct.to.surfaceview	
android.nativeui.navview.version	
android.target.sdk.version	
android.nativeui.view.header.version	
android.uses.surfaceview	
ios.extra.frameworks	Use <addExtraLibs> Ant-task instead.
ios.in.code.default	
ios.in.code.icon	
project.handset.nativehook	
mobiledesigner.runtime.core.class.graphics.canvas	
mobiledesigner.runtime.core.class.graphics.image	
mobiledesigner.runtime.core.class.interrupts	
mobiledesigner.runtime.core.class.keysandtouch	
mobiledesigner.runtime.core.class.softkeys	
mobiledesigner.runtime.core.class.sound	
mobiledesigner.runtime.core.class.threading	
mobiledesigner.runtime.core.class.ui	
project.numeric.keys.emulate.directionals	
project.runtime.uses.nativeui	

9.0   Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

Release 9.10

Mobile Designer

Added API	Description
In nUIWebView and nUIWebviewElement public String callJavaScript(String method, String[] parameters) public void callJavaScript(String method, String[] parameters, IJSCallback callback)	Methods to call JavaScript functions from inside Java.
public void setOverscrollingEnabled (boolean overscrollingEnabled) public boolean isOverscrollingEnabled() public void setScaleToFitEnabled(boolean scaleToFitEnabled) public boolean isScaleToFitEnabled() public void setBgcolor (int bgcolor) public int getBgcolor ()	Methods to handle overscrolling, scaling and background coloring of Web content.
In nUIWebviewCallbackExt void onJavaScriptCallback(Object webview, String clazz, String method, String[] parameters)	Method to notify Java from JavaScript.
In Application public void onStartAppFromURL(String scheme, String url) public void onStartAppFromFile(String mimeType, String absolutePath) public String getStartFileAbsolutepath() public String getStartFileMimeType() public String getStartScheme() public String getStartURL()	Methods related to the new MIME-type and custom URL-based data sharing functionality.

Added API	Description
In _defaults_.xml or handset targets <addExtraLibs platform="android-apk"> <library name="…" libPath="…"/> </addExtraLibs>	New ant task to link Android applications with any external libraries. If libPath is given the libraries at the given path are used.

Deprecated API	Replacement, if any
LCDUI Forms (javax.microedition.lcdui.* and javax.microedition.lcdui.game.* packages)	NativeUI should be used to provide appropriate UI layouts.
Nokia UI (com.nokia.*) API compatibility.	Migrate to MIDP 2.0 API.
VSCL (com.vodafone.v10.*) API compatibility.	Migrate to MIDP 2.0 API.
Samsung APIs (com.samsung.util.*)	Migrate to MIDP 2.0 API.
Sprint APIs (com.sprintpcs.media.* and com.sprintpcs.util.*)	Migrate to MIDP 2.0 API.
OpenGL/ES support.	

Mobile Development

Added API	Description
In AppUtility public int getPPIValue()	Method to return the PPI value for Android devices.
com.softwareag.mobile.runtime.toolkit.transformer.DateTransformer	New API class to provide out of the box date transformations.
In JPath public void update(Object, String, boolean)	Method to write Json objects into an existing Json object or array.
com.softwareag.mobile.runtime.toolkit.operations.FileLoadOperation	New API class to load a file from the Jar.
In AbstractOperationDelegate **In IDataTransformer**	Method signature changed to not be abstract.

Added API	Description
TYPE_XML_STRING, TYPE_JSON_OBJECT, TYPE_ENTITY, TYPE_LONG	Type definitions added to be used using a JsonTransformer.
In AbstractApplicationController createNavButton(int, String, Image) createNavButton(int, String, int, Image)	Methods added to globally create a nUINavbuttonElement.
In AbstractRestOperation public void setPostData(String) public void setPostData(byte[])	Added methods to set post data.

Deprecated API	Replacement, if any

10.0 Copyright Information

11.0 Support

Visit the Empower website to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the TECHcommunity website to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

MOB-RM-910-20160415