Release Notes

Kony Platform

iOS 10 Compatibility Releases

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Kony Support for iOS 10

Features Compatible with iOS 10

1. Kony watchOS 2 – Compatible with watchOS 3.

iOS 10 New Features / Backward Compatibility Impact on Kony Apps

App Transport Security (ATS) was introduced as part of iOS 9 to improve the privacy and data integrity of connections between an app and web services by enforcing additional security requirements for HTTP-based networking requests.

Presently ATS is disabled to allow existing apps to be run without modifications. However, it is a mandate from Apple that starting 1st Jan 2017, all new apps and app updates need to support the protocol. As part of iOS 10, "***NSAllowsArbitraryLoadsInWebContent***" and "***NSRequiresCertificateTransparency***" are introduced to allow arbitrary web page load to work while retaining ATS protection. The support for this will be provided in an upcoming release in time for compliance with the Apple guidelines.

Release Plan for Kony Compatible Platform GA Plugins

Kony's iOS 10 Compatible Plugin#	Kony Compatible Plugins Release Dates (GA)
6.5.3.x	Sep 21st (GA Compatible Kony Plugins)
6.0.3.x	Sep 28th (GA Compatible Kony Plugins)
5.6.5.x	Sep 23rd (GA Compatible Kony Plugins)
7.1.1.x	Sep 30th (GA Compatible Kony Plugins)

We will deliver final support within 30 days from GM release, as is defined by the Kony SLA.

Kony Plugins and Xcode Dependencies

- Apple strongly recommends using Xcode 8 for building the apps while it still supports Xcode 7.x and above
- Below are the XCode versions that are supported by Kony in order to consume the compatibility plugins.
  - XCode 8.x

Kony MobileFabric iOS 10 Compatibility

Kony SDK is certified for iOS10 compatibility on these supported Kony Plugin versions: 5.6, 6.0, 6.5 and 7.x. This would help you to continue to leverage the power of our back-end services along with the capability to manage the full spectrum of hardware and software with iOS 10.

On Management, IOS10 compatibility is already enabled as of 26th Sep on EMM 4.1(EMM-GA-4.1.0.4), 4.0 (EMM-GA-4.0.0.6), 3.5.1 (EMM-GA-3.5.1.9) plugins.

Kony Compatible Platform Plugins

Kony's iOS 10 Compatible Plugin	Additional Notes
iOS–GA–6.5.3.21	**These Plugins are certified on Apple GA**
iOS–GA–5.6.5.22	**These Plugins are certified on Apple GA**
iOS–GA–6.0.3.65	**These Plugins are certified on Apple GA**
iOS–GA–7.1.1.3	**These Plugins are certified on Apple GA**

EMM iOS10 Compatible Plugins

EMM Version	Compatible iOS10 Plugin
EMM 4.1	**EMM-GA-4.1.0.4** **(Please refer to release notes in downloads /hot fix site)**
EMM 4.0	**EMM-GA-4.0.0.6** **(Please refer to release notes in downloads /hot fix site)**
EMM 3.5.1	**EMM-GA-3.5.1.9** **(Please refer to release notes in downloads /hot fix site)**

Issues Fixed in Compatible Plugins

- App is blocked when tested the BanReservas Banking app on iOS 10 device (iPhone 5) using 7.1.1

  iOS–BETA 1 plugin. (Helpdesk Ticket# 69063 and on GA 7.1.1.3 IOS Plugin)

- In iOS 10 devices, the Hamburger Menu fails to work as expected. This issue is observed after consuming iOS-BETA1 7.1.1 plugin. (Helpdesk Ticket# 69007 and on GA 7.1.1.3 IOS Plugin)

- Type Errors in iOS10 BETA (Helpdesk Ticket# 67607)

- UI issues with iOS10 BETA (Helpdesk Tickets # 67779)

- Force(3D) Touch not working in iOS10 BETA (Helpdesk Ticket # 66206)

- Calendar widget is flickering on click of it in iOS10 device (Helpdesk Ticket #64911)

- Application Not launching in iOS 10 Beta version (Helpdesk Ticket # 64722)

- App is crashing - when trying to show direction line on map (Helpdesk Ticket # 66906)

- Popup header is showing up at the bottom of the popup while scrolling in iOS10 beta. (Helpdesk Ticket # 67037)

- Apps cannot be launched on iOS10 (Helpdesk Tickets #64722, #64353)

- Kony Popup Widget crashes in iOS 10 (Helpdesk Tickets #64858)

- Various issues in the Kony Segment Widget:

  o Segment Row template is crashing

  o Segment Section Header template is crashing.

  o In Segment, widgets with preferred width property are crashing.

  o Segment multi select is crashing.

  o Segment Icon Edit style is crashing

  o Segment Swipe to Delete is crashing

  o Segment Pull to Refresh is crashing

  o Segment onReachEnd API is crashing

- Compatibility to the Privacy and Security enhancements implemented by Apple in iOS 10 (Helpdesk Tickets #65022, #65025)

  As part of Security enhancements in iOS 10, declare your app's intended use of protected data classes such as Camera, Gallery etc. by including the appropriate purpose string keys in your Info.plist file.
  For ex: NSCalendarsUsageDescription, NSPhotoLibraryUsageDescription etc.

  To achieve the same in Kony, follow this steps:

  1. Add all the required keys and corresponding purpose strings in a. json file and name it as "**infoplist_configuration. json.**"

     {

         "NSCalendarsUsageDescription"   :   "<Please give a suitable description on usage of this feature in the app>",

         "NSCameraUsageDescription"   :   "<Please give a suitable description on usage of this feature in the app>",",

         "NSContactsUsageDescription"   :   "<Please give a suitable description on usage of this feature in the app>",",

```
        "NSLocationAlwaysUsageDescription"  :    "<Please give a suitable
    description on usage of this feature in the app>",",

        "NSPhotoLibraryUsageDescription" :    "<Please give a suitable description
    on usage of this feature in the app>","

    }
```

2. Open the project directory in Kony Studio and go to /resources/common directory.
3. Paste the infoplist_configuration.json file in iphone directory.
4. On building the application, the .json file will be packaged in the generated .KAR file. On extraction of this .KAR, the keys will be added to the Info.plist file.
5. This applies for all supported Kony Plugin versions including 5.6.5.x, 6.0.3.x, 6.5.3.x, 7.1.1.x

This fix resolves following issues:

- Contacts APIs are crashing in iOS 10.
- Calendar Events are crashing in iOS 10.
- OpenMediaGallery APIs are crashing in iOS 10.
- Camera Widget is crashing in iOS 10.
- Accelerometer APIs

For more details on other keys that are driven by these new settings, please refer this page from Apple:
https://developer.apple.com/library/prerelease/content/documentation/General/Reference/InfoPlistKey Reference/Articles/CocoaKeys.html#//apple_ref/doc/uid/TP40009251-SW15

Known Issues

- iOS 10 has introduced the User Notifications framework (UserNotifications.framework), which supports the delivery and handling of local and remote notifications. This is a pending implementation on Kony Plugins. Kony plans to support this later and after the compatibility releases. Please note that the same is not deprecated by Apple as yet.

- "*openURL*" method is replaced with "*openURL:options:completionHandler*:" This will be supported in the upcoming releases from Kony.

- One cannot save the generated key on key chain for simulator using kony.crypto.saveKey. However, this is working on the iOS 10 device.

Additional Notes on Compatible Plugins Release
- If you are using FFI for your requirements, 'Non Nil' key check should be taken care for APIs such as setValue:forKey:, setObject:forKey:, and valueForKey.