

# Titanium SDK 8.1.0.RC Release Note

## Titanium SDK 8.1.0.RC - 22 July 2019

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## About this release

Titanium SDK 8.1.0 is a minor release of the SDK, addressing high-priority issues from previous releases.

As of this release, Titanium SDK 8.0.x will not receive updates more than six months after the release of 8.1.0 (current) (2020-01-22). Any needed fixes will be in 8.1.x or later supported releases within the 8.x branch. See [Axway Appcelerator Deprecation Policy](#) and [Nominal Lifetimes](#) documents for details.



With the release of Titanium SDK 9.0.0, we will no longer support Node.js 8.X. Node.js 10.13.0 will be the new minimum supported version with SDK 9.0.0.

## Notice of feature and behavior Changes

- [TIMOB-27250](#) - Add Node 8 deprecation warning for SDK 9.0 release
  - With the release of Titanium SDK 9.0.0, users should see a deprecation notice for Node.js if they are using a version lower than 10.13

## New features

### Android platform

- [TIMOB-4041](#) - Android: Add "separatorStyle" property to `Ti.UI.ListView`
  - Added support for `ListView.separatorStyle`

## ListView.separatorStyle

> [Expand](#)

```
var win = Ti.UI.createWindow({ backgroundColor: 'black', fullscreen: true
});
var listView = Ti.UI.createListView({
    separatorStyle: Ti.UI.TABLE_VIEW_SEPARATOR_STYLE_NONE,
});
var section = Ti.UI.createListSection();
var sectionData = ;
var i = 25;
for (var k = 0; k < 25; k++) {
    sectionData.push({
        properties: {
            title: 'Row ' + (k + 1)
        }
    });
}
section.setItems(sectionData);
listView.sections = section;
win.add(listView);
win.open();
```

[source](#)

- [TIMOB-14460](#) - Android: Add `Ti.Platform.canOpenURL()` support
  - Added support for `Ti.Platform.canOpenURL()`
- [TIMOB-26793](#) - Android: Hide radio buttons `OptionDialog`
  - Added support to use `OptionDialog` without radio buttons

## OptionDialog

> [Expand](#)

```
var win = Ti.UI.createWindow({
  title: 'Click window to test OptionDialog',
  backgroundColor: 'white'
});
var opts = {
  title: 'Select an option',
  options: 'Option 1', 'Option 2', 'Option 3', 'Option 4',
  buttonNames: 'Cancel'
}
var dialog;
win.addEventListener('click', function() {
  dialog = Ti.UI.createOptionDialog(opts);
  dialog.addEventListener('click', onSelectDialog);
  dialog.addEventListener('cancel', function(e) {
    alert('Dialog canceled! e.cancel = ' + e.cancel + ', e.index = ' +
e.index);
  })
  dialog.show();
});
function onSelectDialog(e) {
  console.log(e);
}
var btn = Ti.UI.createButton({
  title: "toggle selected index",
  bottom: 5
});
btn.addEventListener("click", function() {
  if (opts.selectedIndex == 0) {
    opts.selectedIndex = -1;
  } else {
    opts.selectedIndex = 0;
  }
});
win.add(btn);
win.open();
```

[source](#)

## iOS platform

- [TIMOB-18421](#) - iOS: Add animation properties "springVelocity" and "dampingRatio"
  - Added `dampingRatio` and `springVelocity` to allow iOS spring animations
- [TIMOB-26523](#) - iOS 11+: Support large title style (dynamic fonts)
  - Added support for dynamic fonts in `UIFontTextStyleLargeTitle`

## UIFontTextStyleLargeTitle

> Expand

```
var win = Ti.UI.createWindow({
  backgroundColor: '#fff',
  extendSafeArea: false
});

var scrollView = Ti.UI.createScrollView({ layout: 'vertical', top: 50 });

var textStyles =
  Ti.UI.TEXT_STYLE_HEADLINE,
  Ti.UI.TEXT_STYLE_SUBHEADLINE,
  Ti.UI.TEXT_STYLE_BODY,
  Ti.UI.TEXT_STYLE_FOOTNOTE,
  Ti.UI.TEXT_STYLE_CAPTION1,
  Ti.UI.TEXT_STYLE_CAPTION2,
  Ti.UI.TEXT_STYLE_CALLOUT,
  Ti.UI.TEXT_STYLE_TITLE1,
  Ti.UI.TEXT_STYLE_TITLE2,
  Ti.UI.TEXT_STYLE_TITLE3,
  Ti.UI.TEXT_STYLE_LARGE_TITLE,
;

for (var i = 0; i < textStyles.length; i++) {
  var textStyle = textStyles[i];
  scrollView.add(Ti.UI.createLabel({
    top: 20,
    text: textStyle,
    font: {
      textStyle: textStyle
    }
  }));
}

win.add(scrollView);
win.open();
```

source

- [TIMOB-26599](#) - iOS: Add "allowTranscoding" option to `Ti.Media.openPhotoGallery()`
  - Added option to disable video compression when importing video
- [TIMOB-26973](#) - iOS: Add `accessibilityIdentifier`
  - Added `accessibilityIdentifier` which can compose views on iOS the same way `content description` is composed on Android
- [TIMOB-27124](#) - iOS 13: Support running on Xcode 11 Simulators
  - Added support for Xcode 11

## Windows platform

- [TIMOB-25778](#) - Windows: Implement `Ti.UI.Label.ellipsize`
  - Implemented `Ti.UI.Label.ellipsize`
  - `TEXT_ELLIPSIZE_TRUNCATE_START`, `TEXT_ELLIPSIZE_TRUNCATE_MIDDLE`, and `TEXT_ELLIPSIZE_TRUNCATE_MARQUEE` are not supported on Windows because platform component doesn't support them

## Multiple platforms

- [TIMOB-26571](#) - TiAPI: Global process object compatible with Node.js
  - Expanded the global process object to be more compatible with Node.js
- [TIMOB-26669](#) - TiAPI: Create Node-compatible `assert` module API
  - Added Node.js-compatible `asset` module API

- [TIMOB-26670](#) - TiAPI: Create Node-compatible util module API
  - Added Node.js-compatible util module API
  - This API does not include every method of `util.types`, nor does it include `util.extends()`, `util.isDeepStrictEqual()`, or `util.inspect`
  - Currently supports `depth`, `showHidden`, and to some degree `breakLength`
- [TIMOB-27150](#) - Add ability to alias required modules in Titanium
  - Added ability to alias required modules

## Community credits

- Prafulla Bansode - [TIMOB-24415](#)
- Sandro Lain - [TIMOB-24418](#), [TIMOB-24423](#), [TIMOB-24443](#)
- Hans Knöchel - [TIMOB-26101](#), [TIMOB-26854](#), [TIMOB-26862](#), [TIMOB-26885](#), [TIMOB-26946](#), [TIMOB-27049](#), [TIMOB-27082](#), [TIMOB-27089](#), [TIMOB-27090](#), [TIMOB-27100](#), [TIMOB-27103](#), [TIMOB-26523](#), [TIMOB-26566](#), [TIMOB-26509](#), [TIMOB-26686](#), [TIMOB-26770](#), [TIMOB-27155](#), [TIMOB-27210](#)
- kedomuz - [TIMOB-26326](#)
- Michael Gangolf - [TIMOB-26456](#), [TIMOB-26993](#), [TIMOB-25556](#), [TIMOB-26793](#)
- Sergey Volkov - [TIMOB-26973](#)
- shumne - [TIMOB-26795](#)
- alessandro la rocca - [TIMOB-26829](#)
- Andreas Pingas - [TIMOB-26878](#), [TIMOB-27188](#), [TIMOB-27232](#)
- Arbind - [TIMOB-26898](#)
- grebulon - [TIMOB-26954](#)
- Muhammad Ahmed Fahad - [TIMOB-26986](#)
- Adam Armstrong - [TIMOB-27087](#)
- Tim Poulsen - [TIMOB-14460](#)
- Richard Lustenberg - [TIMOB-26599](#)
- Mark Henderson - [TIMOB-27098](#)

## Fixed issues

### Android

- [TIMOB-24415](#) - Android: Listview not able to add accessibility label in the ListItem components
- [TIMOB-24881](#) - Android: Label ellipsize modes START and MIDDLE don't work if "autoLink" is true
- [TIMOB-26456](#) - Android: Optimize TiBlob.imageAsResized
- [TIMOB-26650](#) - Android: Using toImage on views with border properties not added to UI results in empty blob
- [TIMOB-26841](#) - Android: Reading TextField "backgroundDisabledColor" will crash if background/border color is assigned
- [TIMOB-26862](#) - Android: TextField/TextArea within a TableView can have performance issues with some keyboards
- [TIMOB-26869](#) - CLI: Android build fails with cannot find module error
- [TIMOB-26878](#) - Android: Ti.Database.install() fails if destination directory does not exist
- [TIMOB-26954](#) - Android: Reading a JSON file fails on Android Q
- [TIMOB-26993](#) - Android: WebView sometimes crashes on window close after zooming content
- [TIMOB-27087](#) - Android: ShortcutItem not being updated based on "id"
- [TIMOB-27100](#) - Android: TabGroup labels not displayed anymore (SDK 8.1.0+)
- [TIMOB-27153](#) - Android: Prevent multiple exception logs
- [TIMOB-27188](#) - Android: TabGroup crashes if tab "title" property is not set as of 8.0.2
- [TIMOB-27232](#) - Android: Setting Window "barColor" while using a theme without an ActionBar/TitleBar will cause a crash as of 8.1.0

### iOS

- [TIMOB-26795](#) - iOS: Event listener on overlay is not working for camera when camera is kept idle for a few minutes
- [TIMOB-26829](#) - iOS: Titanium.Media.openMusicLibrary returns empty items on iOS 9.3.5
- [TIMOB-26833](#) - iOS: Two startup log messages are output
- [TIMOB-26838](#) - iOS: the openWindow() method of NavigationWindow does not work when called from base window open event
- [TIMOB-26854](#) - iOS: Crash when handling user-activities
- [TIMOB-26885](#) - iOS: Crash when trying to push a window twice (e.g. on slow devices)
- [TIMOB-26946](#) - iOS: Launch screen shows last screen when quickly relaunching the app
- [TIMOB-27049](#) - iOS: Simulator can crash because of the "trackUserInteraction" feature
- [TIMOB-27074](#) - iOS: Rebuilding the app with simulator fails with due to log port being occupied
- [TIMOB-27082](#) - iOS: Modules using TiBlob and built before SDK 8.1 causing app crash
- [TIMOB-27089](#) - iOS: App crashes when asking for location permissions (SDK 8.1.0+)
- [TIMOB-27090](#) - iOS: Using a non-string value in alert() causes app to crash in SDK 8.0.0+
- [TIMOB-27098](#) - iOS: debugger does not show all app files loaded
- [TIMOB-27103](#) - iOS: Native extensions without sources are crashing build
- [TIMOB-27155](#) - iOS: Incremental builds broken
- [TIMOB-27175](#) - iOS: Ti.Platform.id changes when updating to SDK 8.0.0

- TIMOB-27202 - iOS:Rebuilding app on device throws Couldn't find module error
- TIMOB-27203 - iOS: no apiversion validation performed on application build
- TIMOB-27210 - iOS: Cannot find iOS 13 simulators in Xcode 11 Beta 3
- TIMOB-27230 - iOS: CLI prefers Xcode 11/iOS 13 even though Xcode 10.2.1 is selected

## Windows

- TIMOB-24418 - Windows Phone: OptionDialog undefined error
- TIMOB-24423 - Windows Phone: TableViewRow and Label layout not respected
- TIMOB-24443 - Windows Phone: Progressbar not respect width and not resize
- TIMOB-25134 - Windows: Mocha test Titanium.UI.TextField padding test failure
- TIMOB-26550 - Windows: Add support for file property to HTTPClient
- TIMOB-26664 - Windows: Ti.Geolocation.lastGeolocation should return string
- TIMOB-26689 - Windows: Wrong height for TableViewRow with Label
- TIMOB-26690 - Windows: TabGroup does not fire open/close events
- TIMOB-26791 - Windows: Ti.UI.View reports top/left/bottom/right values as Strings always
- TIMOB-26797 - Windows: removeEventListener removes wrong callback
- TIMOB-26969 - Windows: Codec encodeNumber/decodeNumber should throw Error on invalid setup
- TIMOB-27257 - [Windows] Error is shown when packaging a windows module

## Multiple platforms

- TIMOB-27204 - CLI: apiversion validation always fails for native modules installed via npm

## Improvements

### Android

- TIMOB-26686 - Android: Allow Ti.Network.HTTPClient "file" parameter to be set to Ti.Filesystem.File object like iOS
  - Parity for File object support
- TIMOB-26817 - Android: Add parity for Window's barColor property.
  - Parity for barColor property of Ti.UI.Window
- TIMOB-26848 - Android: Re-add "baseUrl" support to WebView.setHtml() that was removed in 6.0.3
  - Re-implemented baseUrl to support WebView.setHtml
- TIMOB-26877 - Android: Ti.Database.install() should throw exception like iOS if source db file not found
  - Modified Ti.Database.install() to throw an exception if given source database file was not found
- TIMOB-26909 - Android: Improve V8 cold start performance
  - Updated V8 to 7.3.492.26 which provides performance updates
- TIMOB-26957 - Android: Update V8 runtime to 7.3.492.26
  - Updated V8 to 7.3.492.26 which provides performance updates
- TIMOB-27042 - Android: Update ti.playservices to 16.1.3
  - Updated ti.playservices to version 16.1.3
- TIMOB-27111 - Android: Implement async Ti.Database.DB methods
  - Implement asynchronous Ti.Database.DB methods for executing SQL queries
    - Ti.Database.DB.executeAsync(query, parameters[], callback)
    - Ti.Database.DB.executeAllAsync(queries[], callback)
  - Implement method for executing multiple queries in one request

### iOS

- TIMOB-26509 - iOS: Allow Ti.UI.SearchBar to be displayed in navigation-bar
  - Added support to show search bar navigation for TiUIListView and TiUITableView
- TIMOB-26770 - iOS: Use Swift 5 by default
  - Added support for Swift 5
- TIMOB-27043 - Cache JS processing between builds
  - Improved incremental app build times
- TIMOB-27047 - iOS: Version of SDKs default modules are not up to date
  - Updated the following modules
    - urlSession from 2.1.0 to 2.2.0
    - ti.map from 3.1.0 to 3.1.2
    - ti.safaridialog from 1.1.1 to 3.1.0
    - ti.identity from 1.0.5 to 1.0.6
- TIMOB-27164 - iOS: Implement async Ti.Database.DB methods
  - Implement asynchronous Ti.Database.DB methods for executing SQL queries
    - Ti.Database.DB.executeAsync(query, parameters[], callback)
    - Ti.Database.DB.executeAllAsync(queries[], callback)

- Implement method for executing multiple queries in one request

## Windows

- [TIMOB-19965](#) - Windows: Implement `WebView.data`
  - Implemented `WebView.data`

**WebView.data**
> Expand

```

var win = Ti.UI.createWindow({
  backgroundColor: 'green'
});
var blob = Ti.Filesystem.getFile('app.js').read();
var webview = Ti.UI.createWebView({
  data: blob,
  height: Ti.UI.FILL,
  width: Ti.UI.FILL
});
webview.addEventListener('load', function () {
  Ti.API.info(typeof webview.data);
});
win.add(webview);
win.open();

```

[source](#)

- [TIMOB-26575](#) - Windows: Support async variants of `Ti.Network.TCP #read` and `#write`
  - Parity for `async` variants of `Ti.Network.TCP`
- [TIMOB-26855](#) - Windows: Add "baseURL" support to `WebView.setHtml()`
  - Re-implemented `baseURL` to support `WebView.setHtml`

## Multiple platforms

- [TIMOB-26574](#) - TiAPI: Implement `set/clearImmediate`
  - Implemented `process.nextTick()` and the global `setImmediate/clearImmediate`
- [TIMOB-26729](#) - TiAPI: Ship baseline polyfills in built SDK
  - This update injects the `core-js/regenerator` polyfills into the bundle `common JS SDK` code we ship when we build
- [TIMOB-27045](#) - Pass along `ENV` variables to `process.env` on development builds
  - Write `env.json` file with `ENV` variables
- [TIMOB-27182](#) - Update Hyperloop to 4.0.3
  - Android: Debugging in Hyperloop enabled projects
  - iOS: Debugging in Hyperloop enabled projects
  - iOS: Correctly require minimum SDK 8.0.0

## API changes

### New APIs

The following APIs are new or have expanded platform support in release 8.1.0.

| API   | Type   | Notes  |
|---|--------|--|
| <code>Titanium.Database.DB.executeAll</code>      | method | Synchronously executes an array of SQL statements against the database and returns an array of <code>ResultSet</code> . On failure, this will throw an <code>Error</code> that reports the failed index and partial results (New API, supported on Android.)   |
| <code>Titanium.Database.DB.executeAllAsync</code> | method | Asynchronously executes an array of SQL statements against the database and fires a callback with a possible <code>Error</code> , and an array of <code>ResultSet</code> . On failure, this will call the callback with an <code>Error</code> that reports the failed index, and a second argument with the partial results (New API, supported on Android.) |

|   |          |   |
|---|----------|---|
| Titanium.Database.DB.executeAsync                 | method   | Asynchronously executes an SQL statement against the database and fires a callback with a possible <code>Error</code> argument, and a second argument holding a possible <code>ResultSet</code> .(New API, supported on Android.) |
| Titanium.Platform.canOpenURL                      | method   | Returns whether the system is configured with a default application to handle the URL's protocol/scheme.(Added support for Android.)  |
| Titanium.UI.Animation.dampingRatio                | property | The damping ratio for the spring animation as it approaches its quiescent state.(New API, supported on iPhone and iPad.)  |
| Titanium.UI.Animation.getDampingRatio             | method   | Access <code>Titanium.UI.Animation.dampingRatio</code> instead.   |
| Titanium.UI.Animation.getSpringVelocity           | method   | Access <code>Titanium.UI.Animation.springVelocity</code> instead.   |
| Titanium.UI.Animation.setDampingRatio             | method   | Set the value using <code>Titanium.UI.Animation.dampingRatio</code> instead.  |
| Titanium.UI.Animation.setSpringVelocity           | method   | Set the value using <code>Titanium.UI.Animation.springVelocity</code> instead.  |
| Titanium.UI.Animation.springVelocity              | property | The initial spring velocity. (New API, supported on iPhone and iPad.)   |
| Titanium.UI.ListView.getSeparatorStyle            | method   | Access <code>Titanium.UI.ListView.separatorStyle</code> instead.  |
| Titanium.UI.ListView.getShowSearchBarInNavBar     | method   | Access <code>Titanium.UI.ListView.showSearchBarInNavBar</code> instead.   |
| Titanium.UI.ListView.separatorStyle               | property | Separator style constant. (Added support for Android.)  |
| Titanium.UI.ListView.setSeparatorStyle            | method   | Set the value using <code>Titanium.UI.ListView.separatorStyle</code> instead.   |
| Titanium.UI.ListView.setShowSearchBarInNavBar     | method   | Set the value using <code>Titanium.UI.ListView.showSearchBarInNavBar</code> instead.  |
| Titanium.UI.ListView.showSearchBarInNavBar        | property | A Boolean indicating whether search bar will be in navigation bar. (New API, supported on iPhone and iPad.)   |
| Titanium.UI.TEXT_STYLE_LARGE_TITLE                | property | Specifies the text style for the Font Object. (New API, supported on iPhone and iPad.)  |
| Titanium.UI.TableView.getShowSearchBarInNavBar    | method   | Access <code>Titanium.UI.TableView.showSearchBarInNavBar</code> instead.  |
| Titanium.UI.TableView.setShowSearchBarInNavBar    | method   | Set the value using <code>Titanium.UI.TableView.showSearchBarInNavBar</code> instead.   |
| Titanium.UI.TableView.showSearchBarInNavBar       | property | A Boolean indicating whether search bar will be in navigation bar. (New API, supported on iPhone and iPad.)   |
| Titanium.UI.WebView.setHtml                       | method   | Sets the value of <code>html</code> property. (Added support for Android.)  |
| Titanium.UI.Window.getHidesSearchBarWhenScrolling | method   | Access <code>Titanium.UI.Window.hidesSearchBarWhenScrolling</code> instead.   |
| Titanium.UI.Window.hidesSearchBarWhenScrolling    | property | A Boolean value indicating whether the integrated search bar is hidden when scrolling any underlying content. (New API, supported on iPhone and iPad.)  |
| Titanium.UI.Window.setHidesSearchBarWhenScrolling | method   | Set the value using <code>Titanium.UI.Window.hidesSearchBarWhenScrolling</code> instead.  |

## SDK modules versions

### Android and iOS

| Module          | Android version | iOS version |
|-----------------|-----------------|-------------|
| urlSession      | n/a             | 2.2.0       |
| facebook        | 8.0.0           | 6.0.0       |
| ti_coremotion   | n/a             | 2.0.1       |
| ti_map          | 4.3.1           | 3.1.2       |
| ti_safaridialog | n/a             | 1.1.1       |



|                 |        |       |
|-----------------|--------|-------|
| ti_webdialog    | 1.1.0  | 1.1.0 |
| ti_touchid      | 3.0.1  | 2.1.4 |
| ti_identity     | 2.1.0  | 1.0.6 |
| ti_cloudpush    | 6.0.1  | n/a   |
| ti_playservices | 16.1.3 | n/a   |

## CommonJS

| Module   | Version |
|----------|---------|
| ti.cloud | 3.2.11  |

## Hyperloop

| Module    | Version |
|-----------|---------|
| Hyperloop | 4.0.3   |