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# Introduction

GlobalLogic has ported Titanium API to the Tizen platform. The Tizen port is based on the Mobile Web implementation of Titanium API.

During and after the porting, tests were performed to validate the port. All automatic tests were executed, and some manual tests were performed (the Kitchen Sink sample/test application was scrutinized). This document describes technical issues that were discovered by GlobalLogic during porting Titanium API to Tizen.

Bugs that are only reproducable on the older Tizen version (2.0.0a2) are marked with grey color.

This document is in progress and will be continued.

# Issues related to Tizen

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| **Overview** | **Affected entity** | **Tickets** |
| **Facebook does not support the Tizen platform.** Mobile web apps and native (local) OS apps use different Facebook log-in methods, and we cannot inherit the Mobile-Web implementation. Facebook assumes *server-based* applications and contacts the app when processing log-in requests. There is no server and no URL in our case, because our apps are local packages. Native mobile applications use Facebook SDKs that come for their OS, but we found no evidence of existence of Tizen Facebook SDK. | Ti.Facebook | N/A (not a defect) |
| **Geolocation only works when the GPS is on.** On Tizen,geolocation works great if the GPS is on. When the GPS is off, the OS (the browser) should attempt to get coarse location information using web-based services. This doesn’t happen. | Ti.Geolocation | <https://bugs.tizen.org/jira/browse/TDIST-133>  <https://bugs.tizen.org/jira/browse/TDIST-143> |
| **Accelerometer events do not arrive in Web API applications** | Ti.Accelerometer  Ti.Gesture | <https://bugs.tizen.org/jira/browse/TDIST-43> |
| **Platform information is not exposed to Tizen Web apps.** A Tizen application based on Web API does not have access to all the platform information exposed by Titanium API. This includes properties like availableMemory, processorCount, etc. | Ti.Platform | N/A (API limitation) |
| **Network-related platform information is not reported properly to Tizen Web apps.** | Ti.Platform | <https://bugs.tizen.org/jira/browse/TDIST-159>  <https://bugs.tizen.org/jira/browse/TDIST-161> |
| **Defects of Tizen’s Contacts module.** There are various bugs in Tizen’s Contact module that prevent certain non-critical Contacts features from working. | Ti.Contacts | <https://bugs.tizen.org/jira/browse/TDIST-134>  <https://bugs.tizen.org/jira/browse/TDIST-135>  <https://bugs.tizen.org/jira/browse/TDIST-137>  <https://bugs.tizen.org/jira/browse/TDIST-147>  <https://bugs.tizen.org/jira/browse/TDIST-148>  <https://bugs.tizen.org/jira/browse/TDIST-153>  <https://bugs.tizen.org/jira/browse/TDIST-154>  <https://bugs.tizen.org/jira/browse/TDIST-156>  <https://bugs.tizen.org/jira/browse/TDIST-158> |
| **Tizen does not support attachments.** | Ti.UI.EmailDialog | N/A (system limitation) |
| **Tizen’s browser does not support synchronous database API.** Synchronous webSQL methods are not implemented in the current browser version of Tizen. It is not possible to implement the synchronous Ti.Database. Asynchronous database API is available via webSQL. | Ti.Database | N/A (system limitation) |
| **Low-level network API is not available.** navigator.connection is undefined in the current version of Tizen’s browser. | Ti.Network | N/A (system limitation) |
| **Bluetooth does not work on Tizen reference device.** No event injector equivalent is available. | tizen.Bluetooth |  |
| **Messaging namespace issues on Tizen.** Some important APIs that pertain to messaging (email and text messages) do not work properly. | tizen.Messaging | <https://bugs.tizen.org/jira/browse/TDIST-162>  <https://bugs.tizen.org/jira/browse/TDIST-165>  <https://bugs.tizen.org/jira/browse/TDIST-168> |
| **WebView issues related to Tizen issues and limitations.** Certain methods and properties of WebView do not work on Tizen. | Ti.UI.WebView | <https://jira.appcelerator.org/browse/TC-1825> |
| **Camera service on Tizen does not work.** The camera service should work but absent on the emulator, and crashes immediately after start on the reference device. | Camera-related entities in Ti.Media | <https://bugs.tizen.org/jira/browse/TIVI-254> |
| **Tizen inspector doesn’t work.** Debug session starts, but opening the URL reported by Tizen SDK results in blank window. |  | <https://bugs.tizen.org/jira/browse/TDIST-167> |
| **Tizen SDK cannot use paths with spaces.** Attempt to use such paths will result in non-informative errors. | Tizen SDK | <https://bugs.tizen.org/jira/browse/TSDK-75> |
| **Titanium apps are generally slower on hardware devices than in the virtualized PC emulator.** Some functionality is up to two times slower than in the PC emulator. |  | ? |
| **All Tizen tickets opened by GlobalLogic** |  | [**https://bugs.tizen.org/jira/issues/?filter=10810**](https://bugs.tizen.org/jira/issues/?filter=10810) |

# Issues related to Mobile Web

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| **Overview** | **Affected entity** | **Tickets** |
| **Titanium Mobile UI layout code has issues.** This prevents many UI-related Anvil tests from passing. | Ti.UI.View and descendants | <https://jira.appcelerator.org/browse/TC-1556> |
| **TableView issues.** Sections beyond the first section are non-functional. (GlobalLogic attempted to fix the issue, but did not succeed.) | Ti.UI.TableView  Ti.UI.TableViewSection | <https://jira.appcelerator.org/browse/TIMOB-12170>  <https://jira.appcelerator.org/browse/TC-1681> |
| **Certain container, stream, and utility namespaces are not working properly.** GlobalLogic were instructed to skip work on these namespaces. | Ti.BlobStream  Ti.Buffer  Ti.BufferStream  Ti.Codec  Ti.IOStream | Unknown |
| **Analytics: no server response.** Although the event reporting API reports success, and network packets suggest that the communication with the server is happening normally, the control panel shows no events | Ti.Analytics | To do |
| **Animation issues in Titanium Mobile Web.** | Ti.UI.Animation | <https://jira.appcelerator.org/browse/TC-1824>  <https://jira.appcelerator.org/browse/TC-1823>  <https://jira.appcelerator.org/browse/TIMOB-11452>  <https://jira.appcelerator.org/browse/TIMOB-10580> |
| **All Mobile Web tickets opened by GlobalLogic** |  | [**https://jira.appcelerator.org/secure/IssueNavigator.jspa?mode=hide&requestId=14433**](https://jira.appcelerator.org/secure/IssueNavigator.jspa?mode=hide&requestId=14433) |

# Issues related to Anvil

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| **Overview** | **Affected entity** | **Tickets** |
| **Issues in XML Anvil tests.** Bugs connected to outdated expectations and implementation. | Suite “xml” | To do |
| **Issues in commonJs Anvil tests.** Bugs connected to outdated expectations and implementation. | Suite “commonjs” | To do |
| **Issues in includes Anvil tests.** Bugs connected to outdated expectations and implementation. | Suite “includes” | To do |