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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 manual tests were performed:

- the Kitchen Sink sample/test application was scrutinized;
- the manual tests from TestLodge were executed.

This document describes only the most important technical issues that were discovered by GlobalLogic during porting Titanium API to Tizen. For the complete list of issues, refer to the link at the bottom of each section (“All tickets opened by GlobalLogic”).

Bugs that are only reproducible on the older Tizen version (2.0.0a2) are grayed out (*like this*). Tizen version 2.0, released on the 19th of February, has not yet been checked.

This document is in progress and will be continued.

## Issues related to Tizen

Overview	Affected entity	Tickets
<b>Facebook does not support the Tizen platform.</b> Mobile web apps and native (local) OS apps use different Facebook log-in	Ti.Facebook	N/A (not a defect)

<p>methods, and we cannot inherit the Mobile-Web implementation. Facebook assumes <i>server-based</i> 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.</p> <p>A workaround is described <a href="#">here</a>, but the workaround cannot be made part of Titanium.</p>		
<p><b>Geolocation only works when the GPS is on.</b> 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.</p>	Ti.Geolocation	<a href="https://bugs.tizen.org/jira/browse/TDIST-133">https://bugs.tizen.org/jira/browse/TDIST-133</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-143">https://bugs.tizen.org/jira/browse/TDIST-143</a>
<p><i><b>Accelerometer events do not arrive in Web API applications. 2.0.0a2 only</b></i></p>	Ti.Accelerometer Ti.Gesture	<a href="https://bugs.tizen.org/jira/browse/TDIST-43">https://bugs.tizen.org/jira/browse/TDIST-43</a>
<p><b>Platform information is not exposed to Tizen Web apps.</b> 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.</p>	Ti.Platform	N/A (API limitation)
<p><b>Some platform information calls take very long, even though they are asynchronous.</b> This seriously affects start-up time for Titanium apps, because they access some platform info on startup. (Current workaround is to not query this info on Tizen.)</p>	Ti.Platform	<a href="https://bugs.tizen.org/jira/browse/TDIST-175">https://bugs.tizen.org/jira/browse/TDIST-175</a>
<p><b>Network-related platform information is not reported properly to Tizen Web apps.</b></p>	Ti.Platform	<a href="https://bugs.tizen.org/jira/browse/TDIST-159">https://bugs.tizen.org/jira/browse/TDIST-159</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-161">https://bugs.tizen.org/jira/browse/TDIST-161</a>
<p><b>Defects of Tizen's Contacts module.</b> There are various bugs in Tizen's Contact module that prevent certain non-critical Contacts features from working.</p>	Ti.Contacts	<a href="https://bugs.tizen.org/jira/browse/TDIST-134">https://bugs.tizen.org/jira/browse/TDIST-134</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-135">https://bugs.tizen.org/jira/browse/TDIST-135</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-137">https://bugs.tizen.org/jira/browse/TDIST-137</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-147">https://bugs.tizen.org/jira/browse/TDIST-147</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-148">https://bugs.tizen.org/jira/browse/TDIST-148</a>

		<a href="https://bugs.tizen.org/jira/browse/TDIST-153">https://bugs.tizen.org/jira/browse/TDIST-153</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-154">https://bugs.tizen.org/jira/browse/TDIST-154</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-156">https://bugs.tizen.org/jira/browse/TDIST-156</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-158">https://bugs.tizen.org/jira/browse/TDIST-158</a>
<b>Tizen does not support attachments.</b>	Ti.UI.EmailDialog	N/A (system limitation)
<b>Tizen's browser does not support synchronous database API.</b> 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)
<b>Low-level network API is not available.</b> navigator.connection is undefined in the current version of Tizen's browser.	Ti.Network	N/A (system limitation)
<i>Bluetooth does not work on Tizen reference device. No event injector equivalent is available. 2.0.0a2 only</i>	tizen.Bluetooth	
<b>Messaging namespace issues on Tizen.</b> Some important APIs that pertain to messaging (email and text messages) do not work properly.	tizen.Messaging	<a href="https://bugs.tizen.org/jira/browse/TDIST-162">https://bugs.tizen.org/jira/browse/TDIST-162</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-165">https://bugs.tizen.org/jira/browse/TDIST-165</a> <a href="https://bugs.tizen.org/jira/browse/TDIST-168">https://bugs.tizen.org/jira/browse/TDIST-168</a>
<b>WebView issues related to Tizen issues and limitations.</b> Certain methods and properties of WebView do not work on Tizen.	Ti.UI.WebView	<a href="https://jira.appcelerator.org/browse/TC-1825">https://jira.appcelerator.org/browse/TC-1825</a>
<b>Camera service on Tizen does not work.</b> 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	<a href="https://bugs.tizen.org/jira/browse/TIVI-254">https://bugs.tizen.org/jira/browse/TIVI-254</a>
<b>Tizen inspector doesn't work.</b> Debug session starts, but opening the URL reported by Tizen SDK results in blank window.		<a href="https://bugs.tizen.org/jira/browse/TDIST-167">https://bugs.tizen.org/jira/browse/TDIST-167</a>
<b>Tizen SDK cannot use paths with spaces.</b> Attempt to use such paths will result in non-informative errors.	Tizen SDK	<a href="https://bugs.tizen.org/jira/browse/TSDK-75">https://bugs.tizen.org/jira/browse/TSDK-75</a>
<b>Titanium apps are generally slower on hardware devices</b>		?

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		<a href="https://bugs.tizen.org/jira/issues/?filter=10810">https://bugs.tizen.org/jira/issues/?filter=10810</a> (requires a login), or see <b>Appendix A</b> .

## Issues related to Mobile Web

Overview	Affected entity	Tickets
<b>Titanium Mobile UI layout code has issues.</b> This prevents many UI-related Anvil tests from passing.	Ti.UI.View and descendants	<a href="https://jira.appcelerator.org/browse/TC-1556">https://jira.appcelerator.org/browse/TC-1556</a>
<b>TableView issues.</b> Sections beyond the first section are non-functional. (GlobalLogic attempted to fix the issue, but did not succeed.)	Ti.UI.TableView Ti.UI.TableViewSection	<a href="https://jira.appcelerator.org/browse/TIMOB-12170">https://jira.appcelerator.org/browse/TIMOB-12170</a> <a href="https://jira.appcelerator.org/browse/TC-1681">https://jira.appcelerator.org/browse/TC-1681</a>
<b>Certain container, stream, and utility namespaces are not working properly.</b> GlobalLogic were instructed to skip work on these namespaces.	Ti.BlobStream Ti.Buffer Ti.BufferStream Ti.Codec Ti.InputStream	Unknown
<b>Analytics: no server response.</b> 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
<b>Animation issues in Titanium Mobile Web.</b>	Ti.UI.Animation	<a href="https://jira.appcelerator.org/browse/TC-1824">https://jira.appcelerator.org/browse/TC-1824</a> <a href="https://jira.appcelerator.org/browse/TC-1823">https://jira.appcelerator.org/browse/TC-1823</a> <a href="https://jira.appcelerator.org/browse/TIMOB-11452">https://jira.appcelerator.org/browse/TIMOB-11452</a> <a href="https://jira.appcelerator.org/browse/TIMOB-10580">https://jira.appcelerator.org/browse/TIMOB-10580</a>
All Mobile Web tickets opened by GlobalLogic		<a href="https://jira.appcelerator.org/secure/IssueNavigat">https://jira.appcelerator.org/secure/IssueNavigat</a>






		<a href="https://jira.tizen.org/jira/issues/?filter=10810">or.jspa?mode=hide&amp;requestId=14433</a> (does not require a login)
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## Issues related to Anvil









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

## Appendix A: List of Tizen issues, as of 20<sup>th</sup> of February 2013.

To see up-to-date version of this list, visit <https://bugs.tizen.org/jira/issues/?filter=10810> (requires Jira login).

<u>Call tizen.systeminfo.getPropertyValue("Device", onSuccessSystemInfoDeviceCallback, onErrorCallback) takes about 30 sec and block whole UI</u>	 New	Unresolved
<u>"web-uninstall" command fails on running applications</u>	 Resolved	Fixed
<u>[2.0] Only audio but no image shown while playback youtube video</u>	 New	Unresolved
<u>Web-debug: URL to the web inspector doesn't load properly</u>	 New	Unresolved
<u>Windows: Batch files (tools\ide\bin) don't support wgt paths with spaces</u>		Fixed

	Resolved	
<u>Messaging: sending SMS message to empty list of recipients does not produce error</u>	 New	Unresolved
<u>Messaging: attribute filter for the "name" attribute doesn't work</u>	 New	Unresolved
<u>Messaging: sending SMS message to short number yields neither success nor error</u>	 New	Unresolved
<u>Tizen Web runtime's inspector does not load properly on Windows</u>	 New	Unresolved
<u>tizen.Messaging.syncFolder() stops synchronizing after processing the "Outbox" email folder</u>	 New	Unresolved
<u>Messaging: AttributeFilter does not find email messages that have been read</u>	 New	Unresolved
<u>tizen.systeminfo.addPropertyChangeListener fails for "Network" parameter</u>	 New	Unresolved
<u>"updateItem" of MediaContent does not modify item's property 'playCount'</u>	 New	Unresolved
<u>"EthernetNetwork" parameter is not recognized by tizen.systeminfo.isSupported</u>	 New	Unresolved
<u>Contacts: isFavorite attribute is not saved</u>	 New	Unresolved
<u>Filesystem's FileFilter namespace is undefined</u>	 New	Unresolved
<u>Tizen's contacts don't set label in contact anniversary.</u>	 New	Unresolved
<u>"findItems" of MediaContent does not find music files by title</u>	 Assigned	Unresolved
<u>Tizen contacts don't save organization logoURI</u>	 New	Unresolved
<u>Tizen contacts don't save phoneticFirstName and phoneticLastName</u>	 New	Unresolved

<u>Reading tizen.Notification.id throws</u>	 New	Unresolved
<u>Some address book's change listeners don't work</u>	 New	Unresolved
<u>Geocode and reverse geocode not working</u>	 New	Unresolved
<u>Cannot remove contacts category</u>	 New	Unresolved
<u>Contacts "addresses" field comes back undefined</u>	 New	Unresolved
<u>Impossible to save a contact's photo URI</u>	 New	Unresolved
<u>Geolocation events not arriving when GPS is off</u>	 New	Unresolved
<u>Browser incorrectly handles HTTP authentication</u>	 New	Unresolved