





ECOSYSTEM



PRODUCTS



FUTURE

THE ECOSYSTEM

TIZEN 2.1

- ADDITIONAL HTML5 APIs
- RICH HOME SCREEN EXPERIENCE
- PERFORMANCE OPTIMIZATION

MOBILE



SAMSUNG

Tizen 2 New Major Features

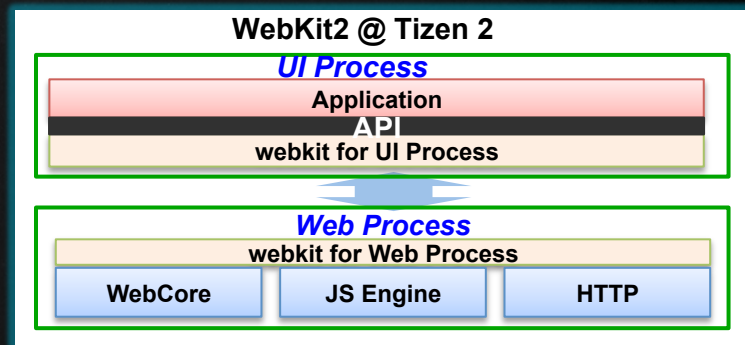
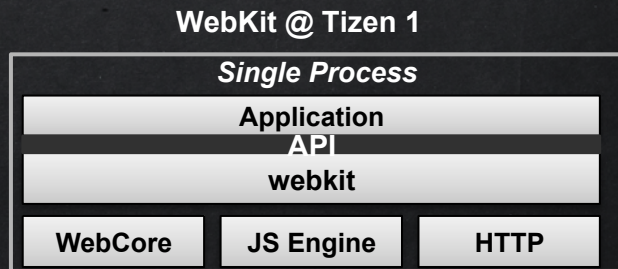
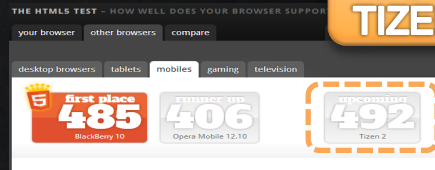
- [Web] WebKit2 based web framework
- [Web] State-of-the-art HTML5/W3C API support
 - including new features, such as Content Security Policy 1.0
- [Web IDE] Hybrid application development environment and WYSIWYG design environment
- [Native IDE] Comprehensive suite for developing native C++ applications
- [UX] Framework for embedding Dynamic Box in viewer-like applications (e.g., Home screen)
- [Security] Anti-virus framework and Simplified Mandatory Access Control in Kernel (SMACK)

Tizen 2 | WebKit2 based Web Framework

- Web APIs for Browser and Web Apps
 - Best-in-class W3C/HTML5 support
- WebKit2 : Multi-process model
 - smooth user experience and better secure model

<http://html5test.com>

492
TIZEN 2



Tizen 2 | WebKit2 based Web Framework

- A policy language to declare a set of content restrictions
 - Cutting edge standard feature being enabled in the latest mobile platforms (Tizen 2.1, Chrome for android 25, Firefox for android 19, Blackberry10)
 - Defines white list of the web resources by type (e.g image, script, media, etc.)
 - Mitigates Cross site scripting (XSS) attacks

CSP example



9:04PM

img.tizen.org/logo.png
Image from the while list
It's OK! Render!!

img.unknown.com/hack.png
Image **off** the while list
NO! Do not load!!

video.tizen.org/movie.mp4
Video from the while list
It's OK! Play!!

```
img-src *.tizen.org;  
media-src video.tizen.org;  
script-src trustedscripts.example.com
```

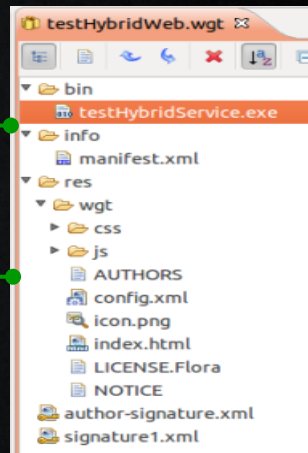
White list

Tizen 2 | Web IDE

- Hybrid Application
 - Combines a web application and a native service application
 - Web (UI) + Native Service (background logic)
- Rapid Development Support
 - Supports rapid development by uploading only changed files to the devices
- Web UI Builder enhancement
 - Supports absolute layout on screen

*Native Artifacts
(binary, manifest)*

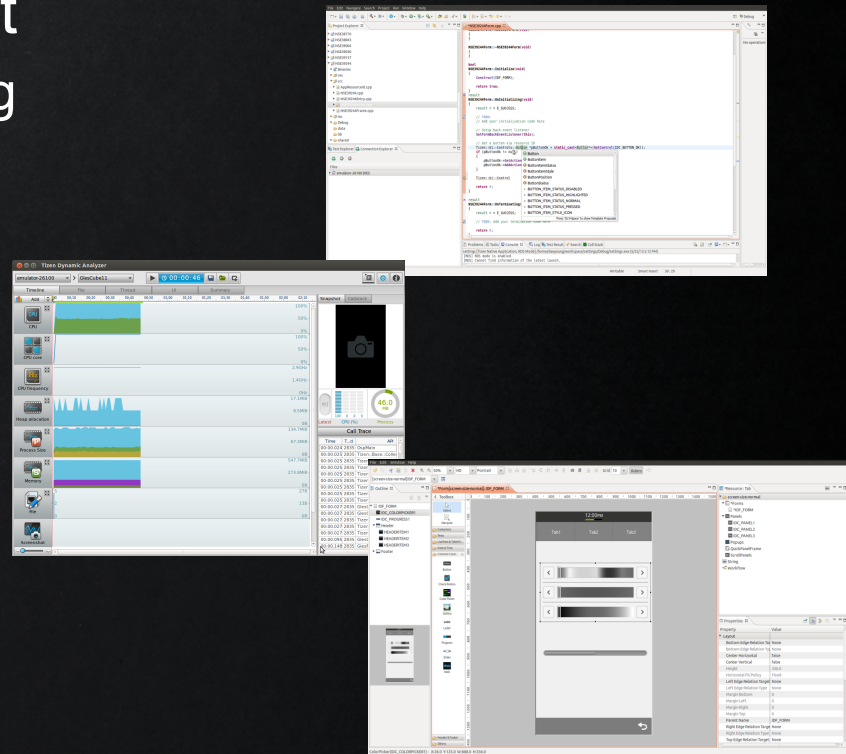
Hybrid App package



*Can place widgets
anywhere*

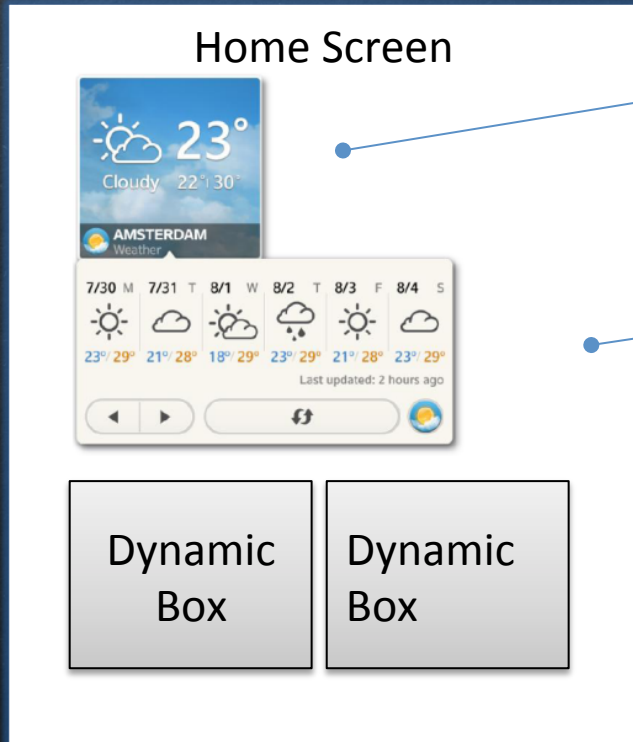
Tizen 2 | Native IDE

- Native development environment
 - Comprehensive suite for developing native C++ applications
 - Project Wizard
 - Editor and Code Assist
 - Unit Test and Code Coverage
 - Dynamic Analyzer
 - UI Builder
 - UI Effect builder



Tizen 2 | Dynamic Box

- A small app that can be embedded in other apps (e.g., Home Screen)



Dynamic Box

The essential or latest information about applications.

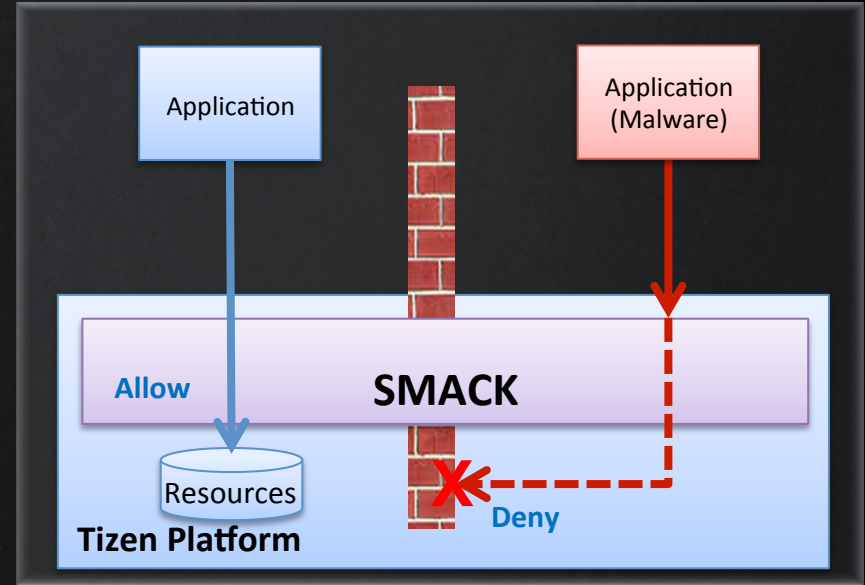
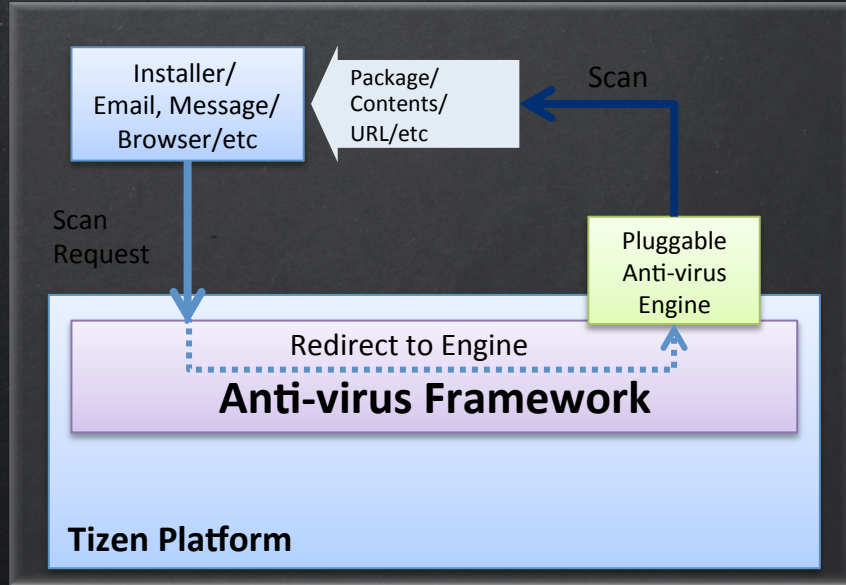
Drop View

(Advanced feature of Tizen)

A hidden area that appears when the Dynamic Box is flicked down, and allows users to quickly access a detail screen, or perform tasks directly.

Tizen 2 | Security

- Anti-virus Framework
 - Provide interface to anti-virus engine & scan function
- SMACK enabled
 - Allow or deny access to system resources based on application's privileges



Seller.TizenStore.com

OPEN FOR SUBMISSIONS

TOP APPS



NEXT TOP APPS



TOP CROSS-PLATFORM TOOLS



TOP GAME ENGINES

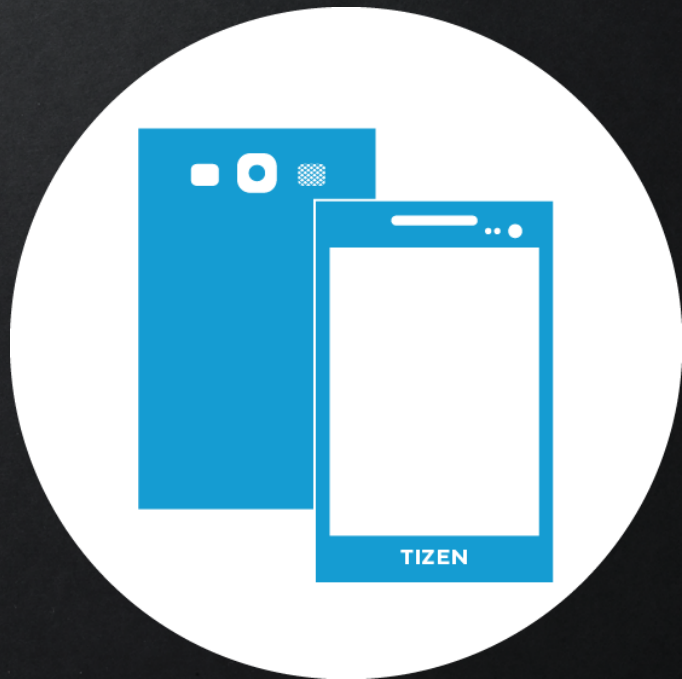


TizenAppChallenge.com



\$4 MILLION IN PRIZES
GREAT EXPOSURE

SDK AT Tizen.org



HTML



GLOBAL PRODUCTS

TIZEN FOR MOBILE



TIZEN FOR IVI





We sell cars...
... To Customers



Killer Features – Requested in 2011

- Multimodal HMI
 - HD Displays
 - Improved Voice Control
- Connected World
 - Telematics
 - Connected Navigation (augmented offboard)
 - App Store
- Media Management – Online & Local



This is a fully featured home entertainment network...

Killer Features – Requested in 2014

We have no idea...

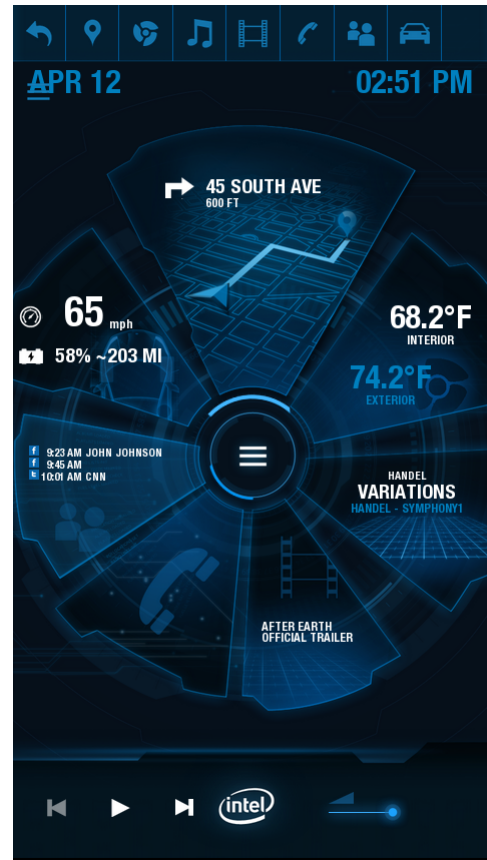




The POC Platform

JLR / Intel worked together to create a base platform that others can build on:

- Tizen 1.0 with node.js
- HTML5 based application environment using wgts
- Server backend to push / pull apps
- Complete documentation
- Road map to Tizen 3.0 and beyond



The Future

- Keep it open
- Keep it easy
- Keep adding features...

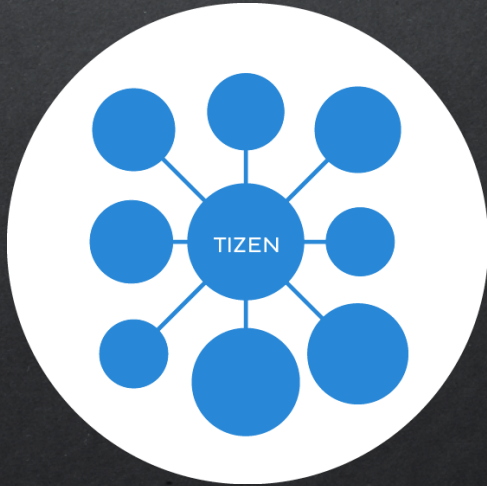
Let's open up IVI development...
...Together!



THE FUTURE

TIZEN 3.0

- IN DEVELOPMENT NOW
- OPEN TO CONTRIBUTION



STRONG
ECOSYSTEM



GLOBAL
PRODUCTS



FUTURE
DEVELOPMENT

THANK YOU