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What is Tizen? Why Tizen? Device profile Tizen 2.4 Tizen 3.0 What's next? Conclusion

What is Tizen? (1/2)

Designed for various category of devices

A completely open source software platform

























What is Tizen? (2/2)

Strong product line

Core platform of 'Internet of Things'



Why Tizen?

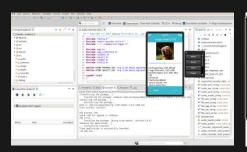
gstreamer

YouTube

Strong Development Environment, Developer friendly Tizen Store Supported by SDK Why Different Application Types Game Development Support Tizen? unity Rich Multimedia, UI Support Performance

Why Tizen?: Powerful SDK

Eclipse based IDE



- Competitive Editor for HTML5,C,C++.
- Project management,
 Sample Apps

Targets like Emulator



- Emulator Support
- Event Injector
- Resolution support

GUI Builder



Tools



- GUI Builder
- Storyboard

- Code Analysis Tools
- Profiling Tools
- Web inspector

Why Tizen? : App models

Web Applications

Native Applications

Hybrid Applications







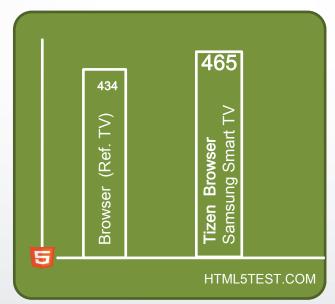
- HTML5, W3C,
- Web API
- High Portability

- Full Device Access
- Native APIs
- High Performance

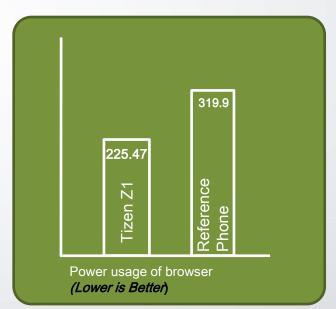
- Web ←→ Native
- Multiplatform portable
- Average Performance

Why Tizen?: Web support

Tizen Browser has best HTML5 support and power usage



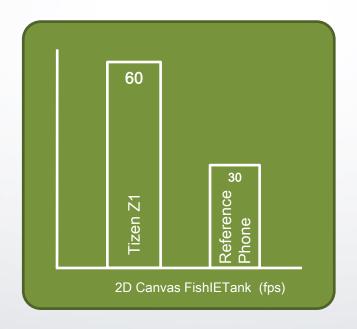
Best among all Smart TVs Reference TV with same spec

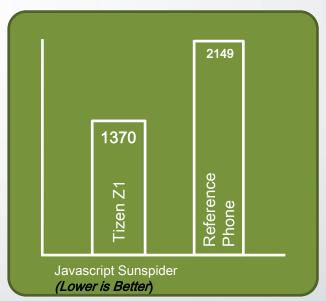


^ Reference Phone with same spec

Why Tizen?: Web support

2D Canvas and Sunspider Benchmark-





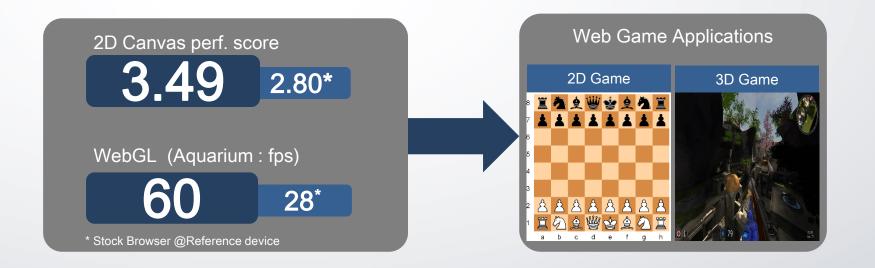
^{*} Reference Phone with same spec

Why Tizen?: Best 2D/3D graphics

- 2D Graphics: Cairo H/W Acceleration
- 3D Graphics: WebGL support







Why Tizen?: Rich Multimedia support

- High Quality Video Playback based on Plug-in Architecture
 - Play almost every media formats without transcoding
 - Rich media support for Browser and web applications







Why Tizen?: Multiple Game Engine Support



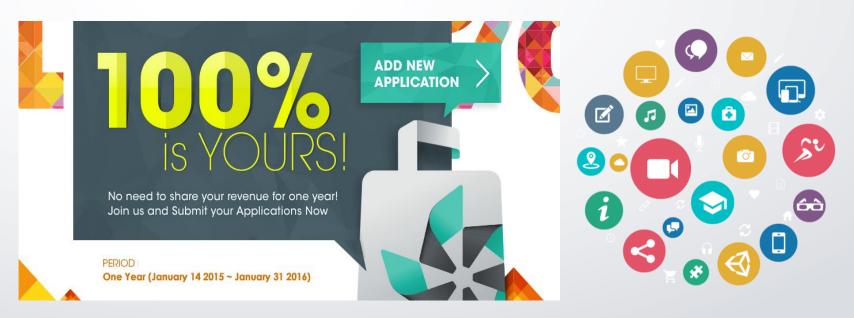


Full List

https://wiki.tizen.org/wiki/Game_development

Why Tizen?: Tizen Store

- Single app store for multi profile devices
- Developer friendly Tizen Store Seller Promotion
- Available in 182 countries.





Device profile

- Profile is a device specific extension to Common Platform
- Common Platform is common in all devices
- Profile has device specific optimizations.
- Mobile and Wearable profiles are released, TV profile is ready
- Refrigerator, IoT, and other profiles will be released in future.



Device profile - device specific optimization

Mobile



Telephony & Messaging Services





Rich Connectivity, Location service





Touch Navigation

Sensors

Rich Connectivity
Battery Consumption

Wearable



Gesture Controls, Health Care



Host device connected services



Simplified UX, Voice Recognition

Low Form factor Health Sensors

TV*



Broadcast & Secured A/V Play



TV A/V inputs & I/O devices



Focus Navigation, Web Controls

Big Screen Display
Home Center

IoT**



Intelligent N/W abstraction



Device to Device communication



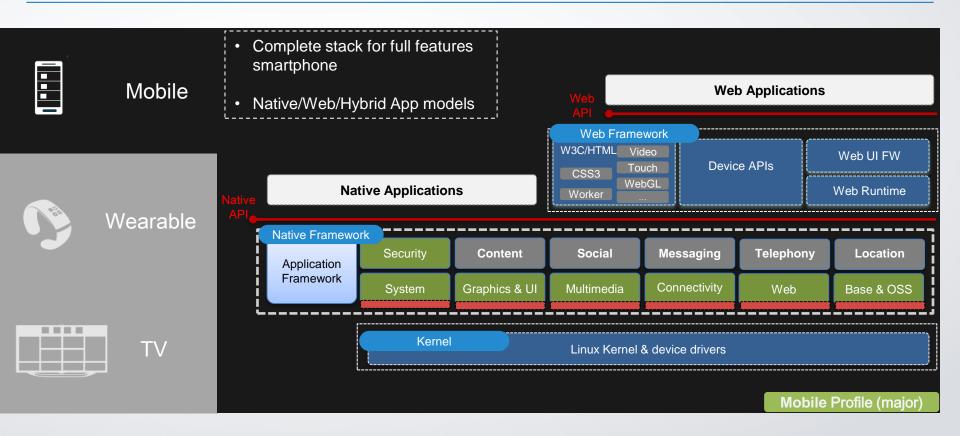
Intelligent Convergence Services

Networking of Things Intelligent Sensors

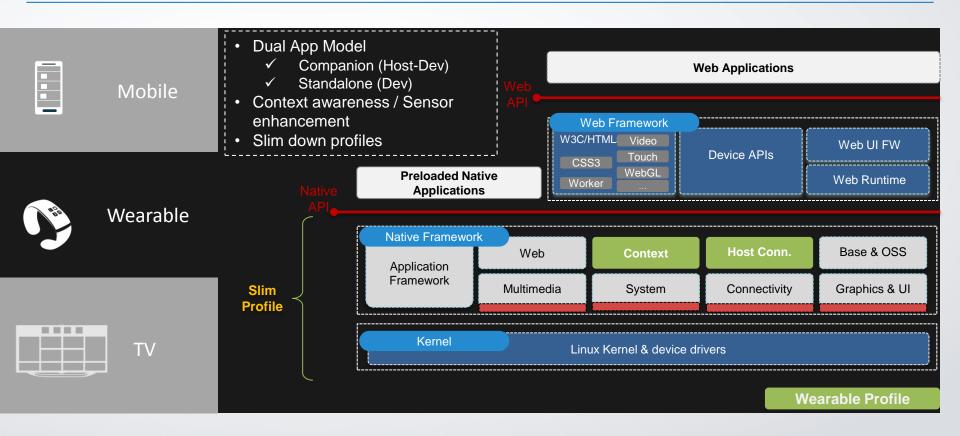
^{*} TV profile will be released in Tizen 3.0

^{**} IoT framework will be released in Tizen 3.0

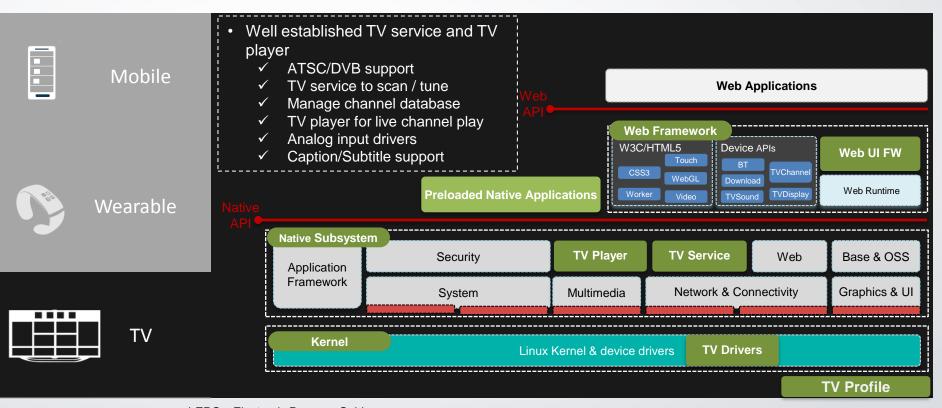
Device profile - Mobile profile



Device profile - Wearable profile



Device profile – TV profile



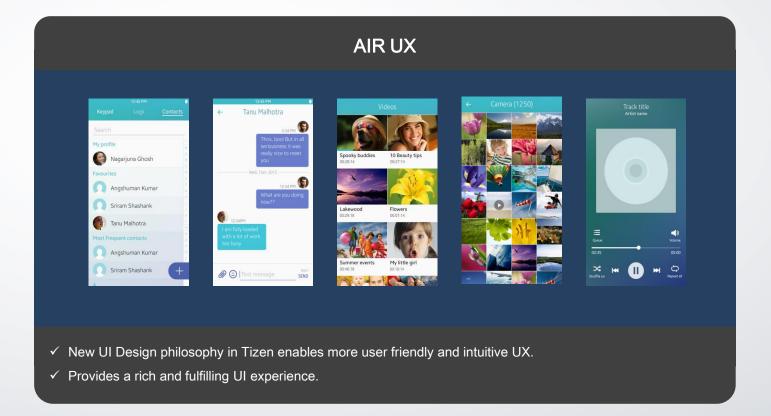
^{*} EPG – Electronic Program Guide



Tizen 2.4 - Enhanced Features

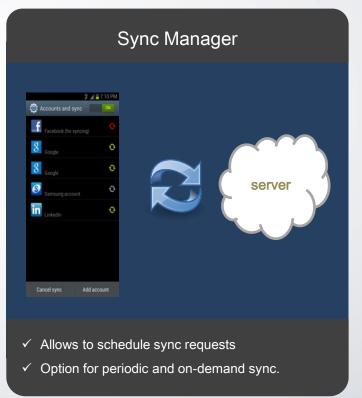


Tizen 2.4 - Enhanced Features



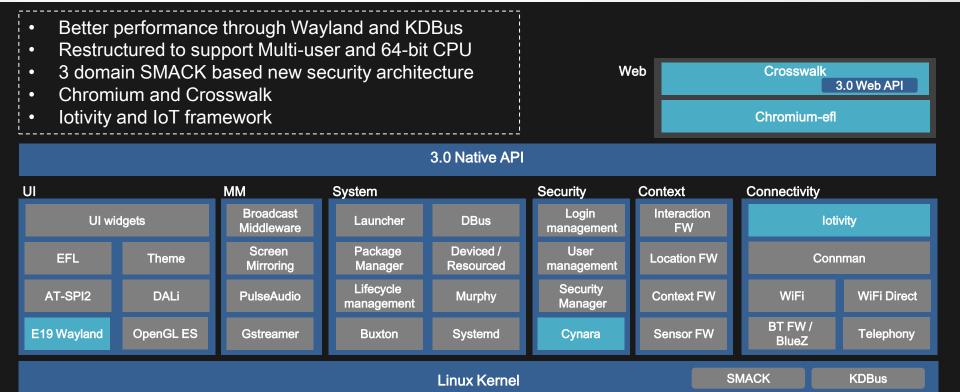
Tizen 2.4 - Features



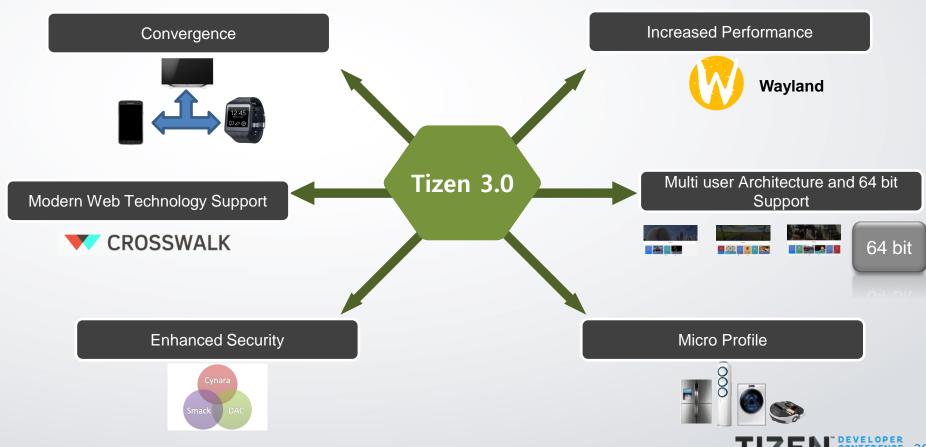




Tizen 3.0 - overview



Tizen 3.0 – What it Offers



Tizen 3.0 - performance

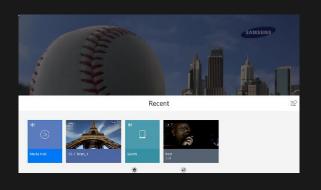
Better performance through Wayland

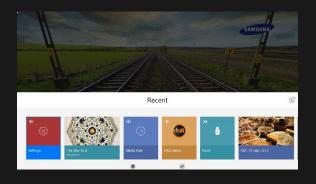


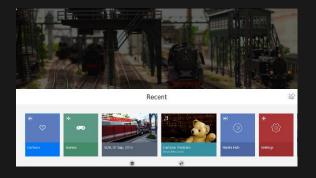
More than 30% improvement in response time and computation efficiency

Tizen 3.0 – multi-user architecture and 64bits

User contents will be protected by multi-user architecture (easy personalization)







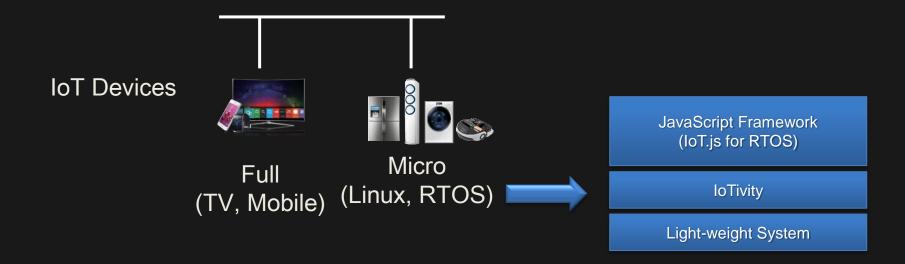
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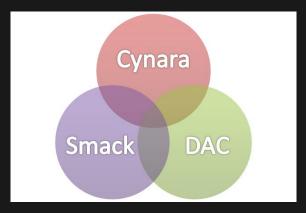
Tizen 3.0 - Micro Profile

- Targeting Devices With Connectivity But No Display
- Minimized Profile With Device Common Features & Programmable App (JS-based) Supporting



Tizen 3.0 – 3 domain SMACK

Developer don't need to write his own SMACK rule (security system will auto-generate SMACK rule for each module)



<new security model>

Floor

- RO system directories
- Kernel helpers

System

- /run, /dev, /var/log
- System services

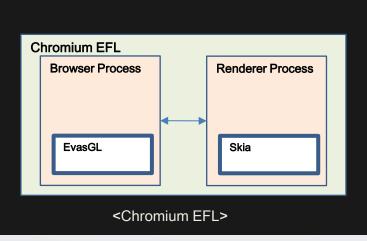
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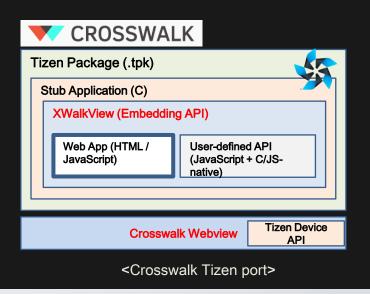
User

- Home directories
- Launcher and user services

Tizen 3.0 – Chromium and crosswalk

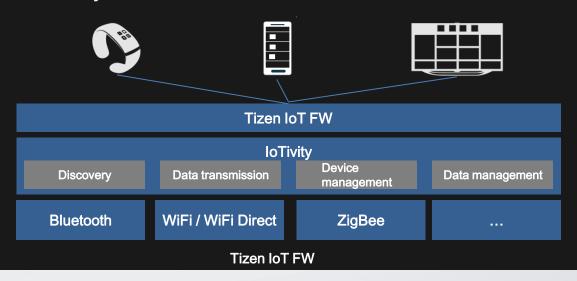
Modern web technology is integrated into platform





Tizen 3.0 – Device Convergence (IoTFW)

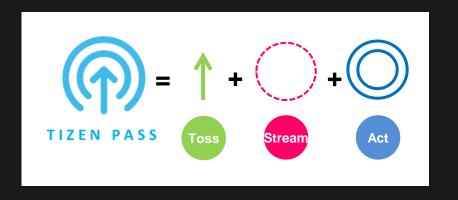
IoTivity is integrated into platform and simplified interface is provided by IoT FW

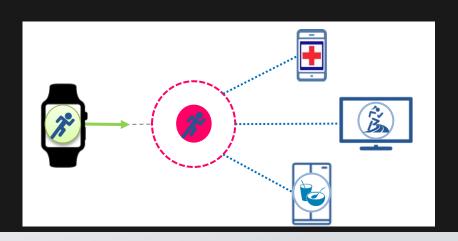


Tizen 3.0 – Device Convergence (TIZEN PASS)

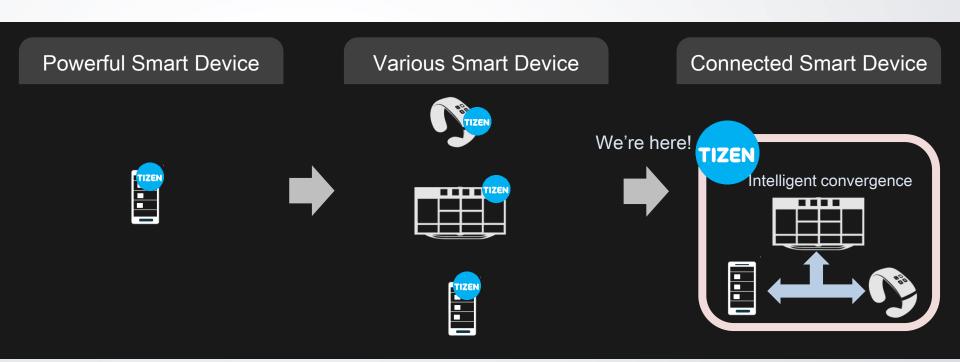
Providing TIZEN PASS API for sharing data between Tizen Devices. Remember 3 steps -

- Toss the data.
- Share the data in stream.
- Act with the data.

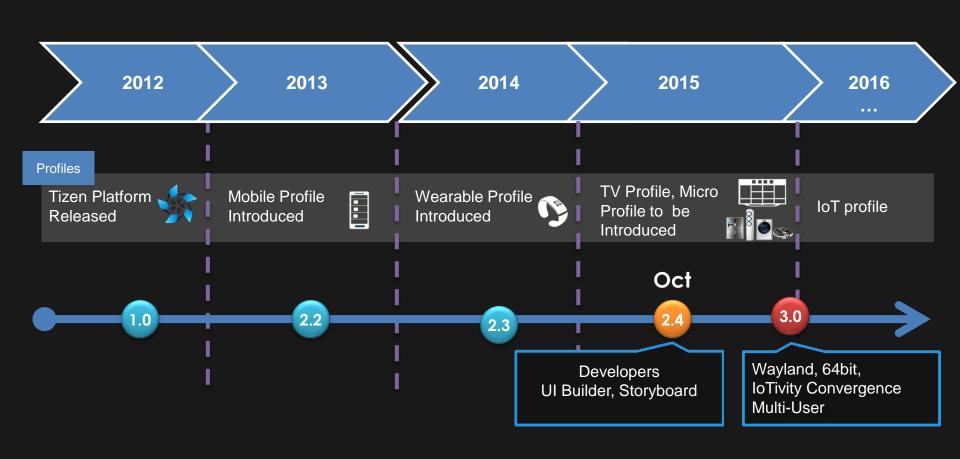




What's next? (1/2)



What's next? (2/2)



Conclusion

