Tizen: Open Source Platform

Hosted by Linux Foundation

Easy to develop new features or customize for own device

Flexible structure of covering Low-end to High-end device
Fast Entry to Market

Proven and production quality platform
100 million Tizen devices in the market by end of 2017
TIZEN Evolution

2012
Tizen 1.0
Tizen Platform Released

2013
Tizen 2.2
Mobile Profile Released

2014
Tizen 2.3
Wearable Profile Released

2015
Tizen 2.4
TV Profile Released

2016
Tizen 3.0
Expanding into IoT
Tizen 3.0
Feature packed enhancements

- Open Connectivity Foundation
- Lightweight Performance Scalable
- Vulkan
- 32-bit / 64-bit
- IoTivity
- Functionality Performance Portability
- Enhanced compatibility with Multimedia web content
- Multi-user
- B2B Security Container
- Built-in voice framework
- Container
Easy to Connect Device

All future Tizen devices will be IoT ready

Easy data sharing, sync, remote application control

Connected to cloud, enabled with OCF standard, Tizen provides effortless implementation of convergence applications across device categories.
End-to-End IoT Solution
Quick Start, Easy & Short Product Development, High Scalability

Fast Prototyping

IoT Devices

App / Service

Cloud
Rapid Development

Support for multiple programming languages, run-times
Eclipse based IDE with wide array of tools for development, debugging and profiling

Tizen Studio 1.0 The Official IDE for Tizen
Connect Everything

SAMSUNG + TIZEN™

100% IoT in 5 years
Introduce Tizen .NET
Improve development experience

Managed language, Garbage collection, Reflection …
IntelliSense, Historical debugging …

C#  {api}  Visual Studio
Easy cross-platform development

Running on Windows, MacOS and various Linux distributions

Supporting Portable Class Libraries
Easy IoT development

.NET connects Cloud and Devices with same language
Tizen’s .NET support

- Language
- API & Framework
- Tools
C# is a multi-paradigm programming language, developed by Microsoft. It is an approved standard (ECMA-334) with Common Language Infrastructure (ECMA-335).
Xamarin & .NET Standard API

Using existing skills, teams, and code to build Tizen apps

Unify the APIs including .NET Framework, .NET Core, and Xamarin
Visual Studio Tools for Tizen

Device emulators and an extension to Visual Studio

Preview today:
https://developer.tizen.org/development/preview
Microsoft

Collaborating with Microsoft on open source projects

Enabling .NET support for the Tizen running on 50 million Samsung Devices.
.NET foundation

Joining the .NET foundation Technical Steering Group in June 2016
Contributing ARM support to .NET Core, and Xamarin.Forms for Tizen
Tizen .NET

Officially release and ship on Samsung devices, including SMART TVs, in 2017
Tizen platform extension for low-end IoT devices

Less than 2MB RAM
IoTivity, S/W Update, Tizen Studio, Web Application

Tizen so far ...

Expanding Coverage

Mobile Profile  Wearable Profile  TV Profile

Linux Kernel

Frameworks for Low-End devices

RTOS Kernel
TIZEN™ RT

- Standard-based Interoperability
- Easy Development
- Large-scale Device Management
- Fault Tolerance
Tizen RT Source Code

https://github.com/samsung/tinyara
THANK YOU