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Tizen.IoT

Tizen Talks

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Who are we?

- Samsung Research
- Tizen Developer
- Tizen Talks Group members in Facebook & YouTube

Who are you?

- Student?
- Tizen?
- IoT?

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Context?

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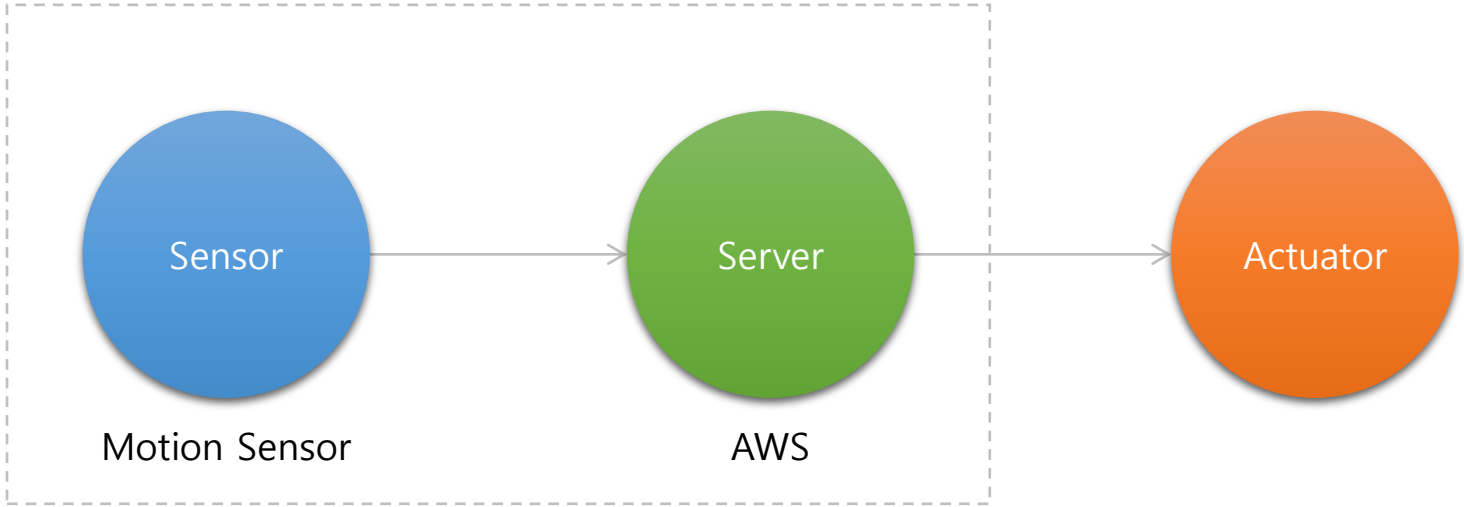
Big Picture

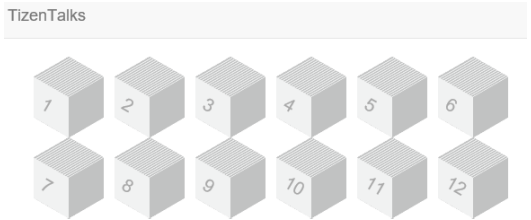
IoT

Cloud, Big data, AI

Robot, Drone, Car

Today Topic


Sensor
Server
Actuator
Motion Sensor
AWS


TizenTalks
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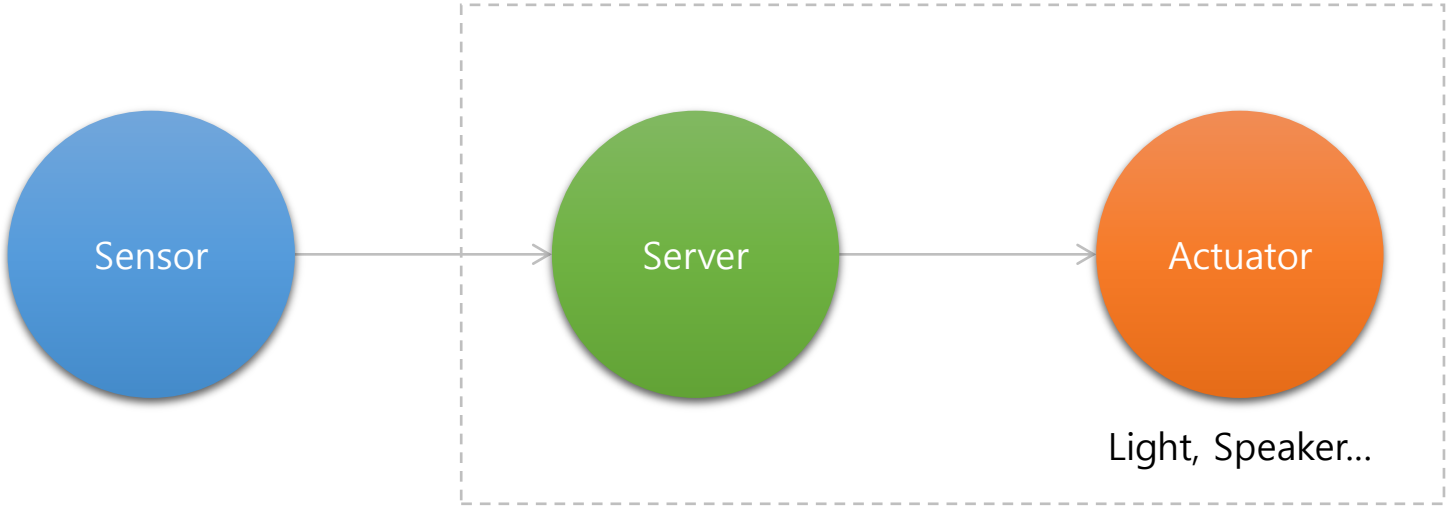
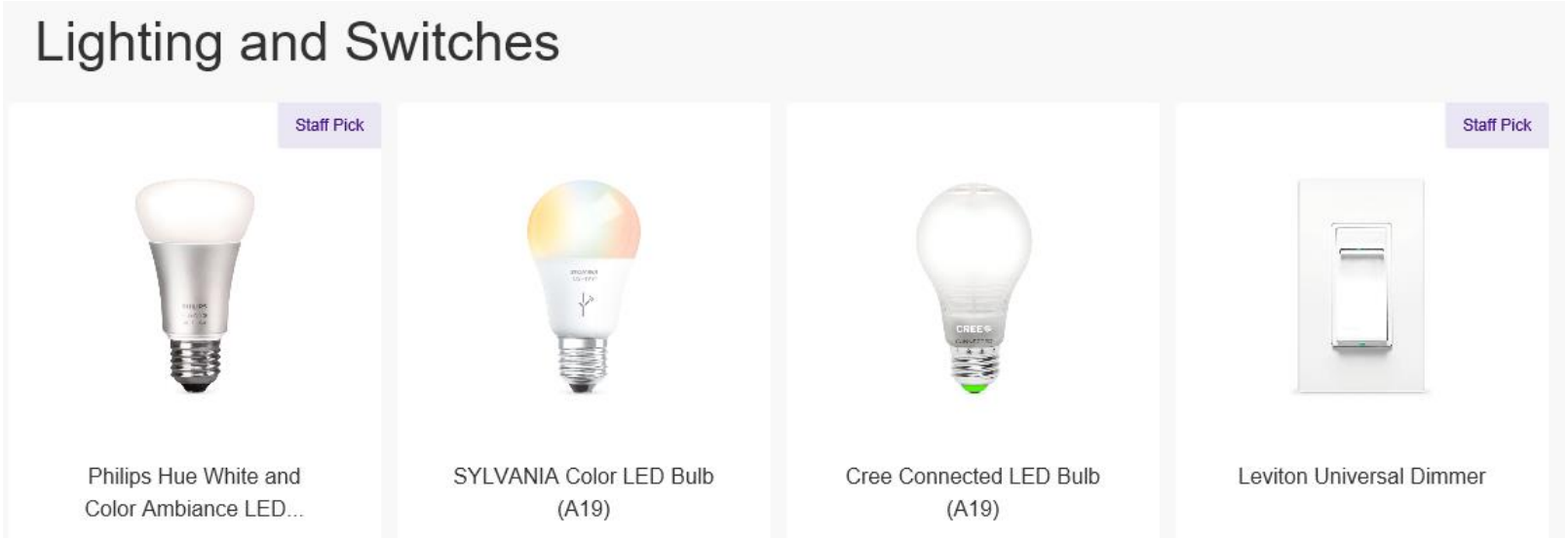
12

Next Topic – Actuator

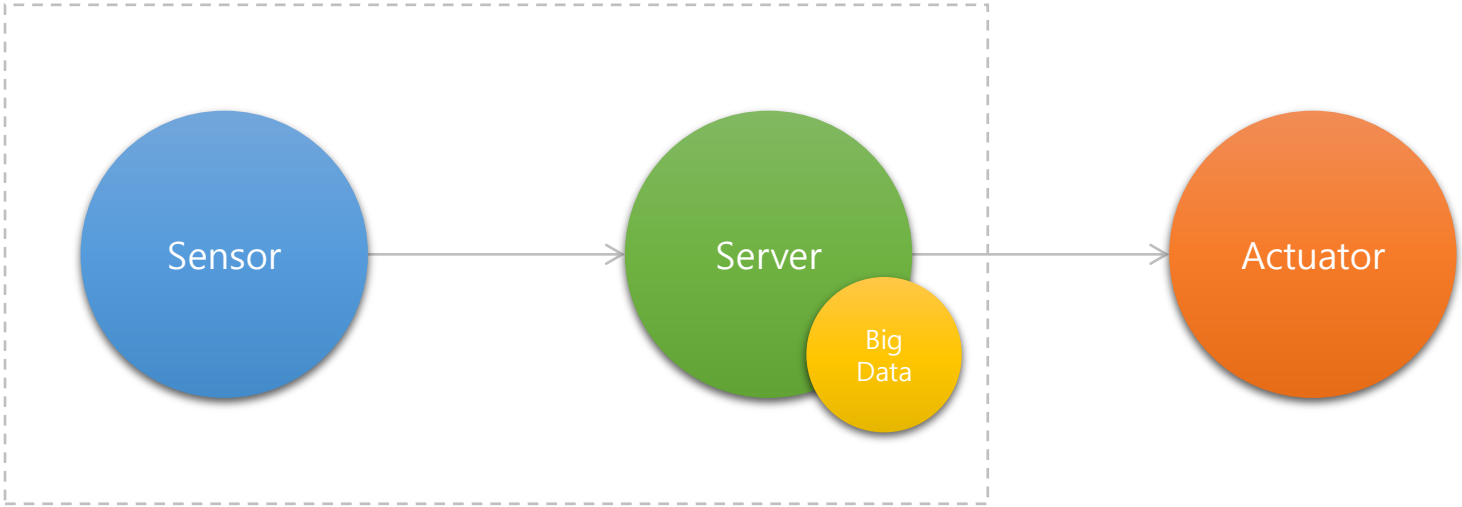


Actuator Examples



https://www.smartthings.com/products/-/filter/categories/lighting-and-switches

Next Topic – Big Data



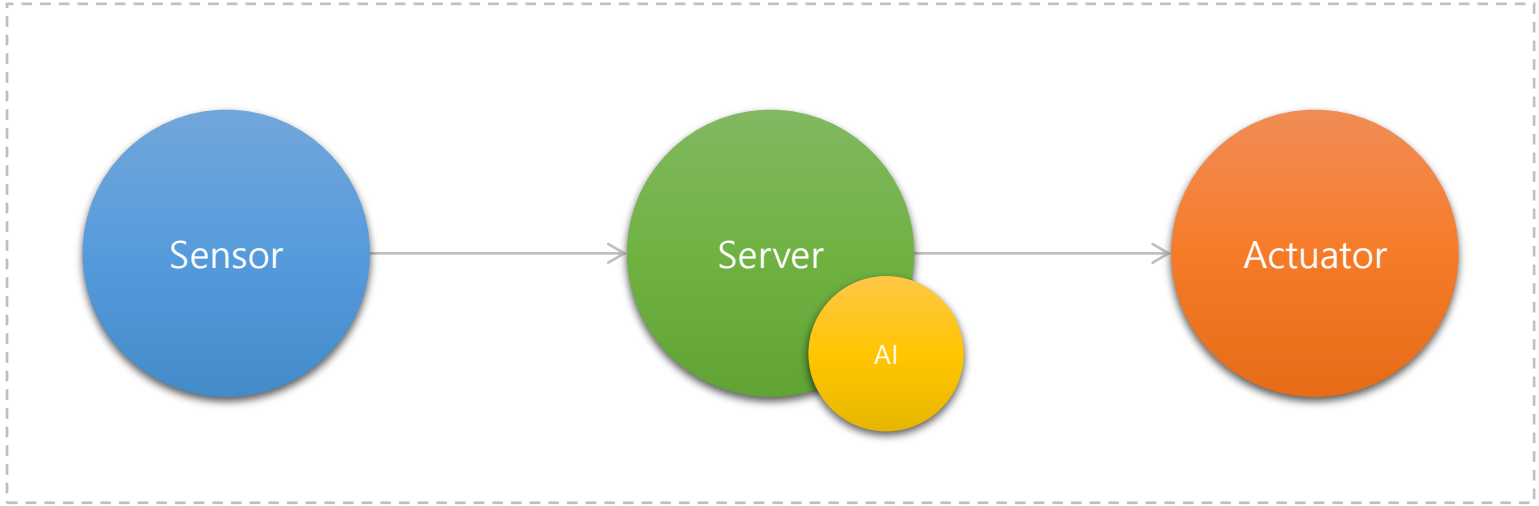
Next Topic – Big Data

서울 및 6대 광역시 공기질 측정망 구축 및 시범서비스 - KT는 서울 및 6대 광역시에 공기질 측정망을 구축하고, 내년 1분기에 시범서비스를 실시할 예정이다. 이를 위해 서울 및 6대 광역시의 주요 거점 1,500개소에 공기질 측정기를 설치하고, 공기질 데이터를 수집 및 분석한다.

IoT 기반 공기질 측정기는 6가지 공기질 데이터 (초미세먼지, 미세먼지, 휘발성유기화합물 (VOCs), 이산화탄소, 소음, 습도)를 분 단위로 측정이 가능하다. 시범서비스는 어린이, 노인 등 미세먼지 취약인구가 거주하는 지역과 유해시설 밀집 지역 위주로 실시할 계획이다.

출처 : https://netmanias.com/ko/?m=view&id=operator_news&no=12749, 2017. 9. 20 기사

Next Topic – AI



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IoT Today & Tomorrow

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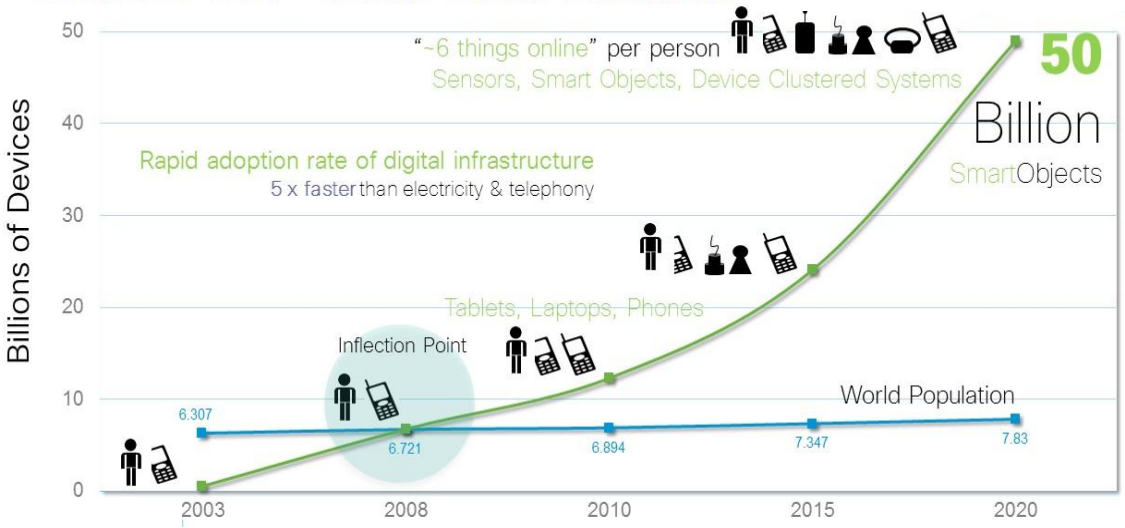
Growth of IoT

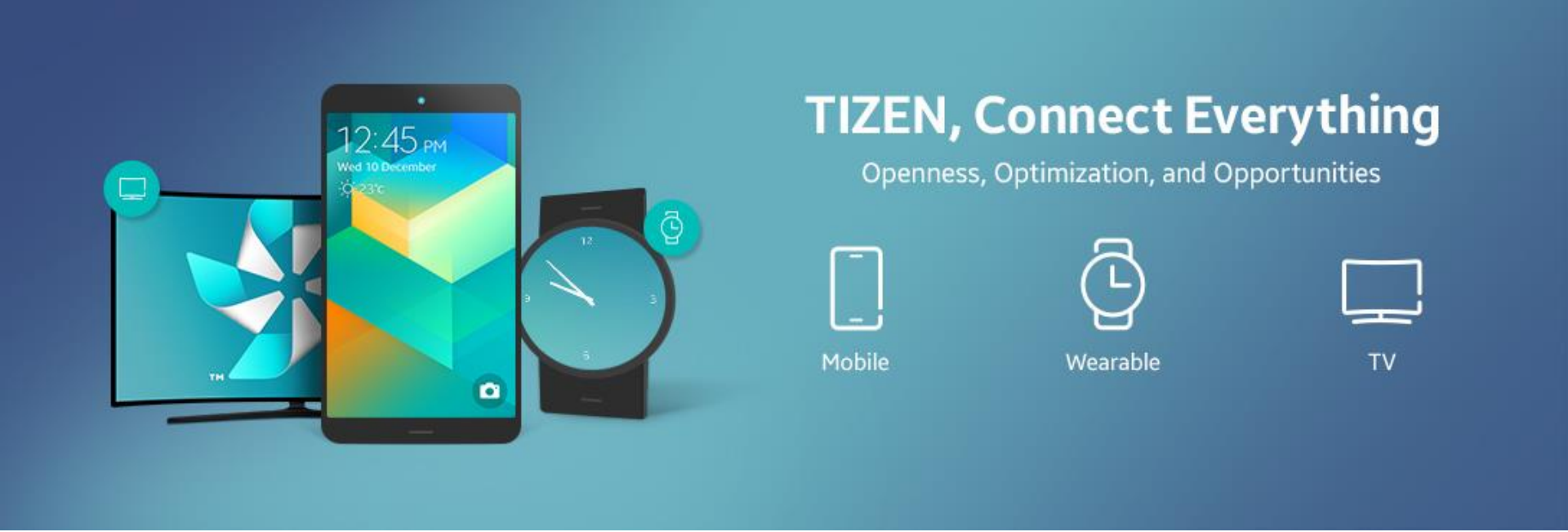


- **The number of connected devices will exceed 50 billion by 2020**
- **1,000 devices per person by 2040 will be connected to the Internet.**

Source: Cisco IBSG projections, UN Economics & Social Affairs https://www.un.org/esa/population/publications/longrange2/WorldPop2300final.pdf

IT ▾
통신 • 휴대폰

'탈(脫) 구글 가속화' 삼성, 올해 9월 타이젠 4.0 발표..."폰만 빼고 모두 타이젠 OS 탑재"



- **All of Samsung's products (excluding smartphones) will be equipped with Tizen OS.**
- **Participation of many domestic and foreign companies participates in the Tizen IoTivity ecosystem.**

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Today Topic

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Tizen을 활용하여 IoT 쉽게 만들기

*Raspberry pi3, Tizen IoTvity 오픈소스 활용

일정	주제
14:00	우리는 왜 Tizen IoTivity를 선택해야 하는가?
14:20	Tizen IoTivity를 시작하기 위한 환경 설정하기
16:00	Thing에 연결된 센서로부터 센서값 읽어오기
17:00	IoT 세계에서 Cloud와 소통하기

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Source code

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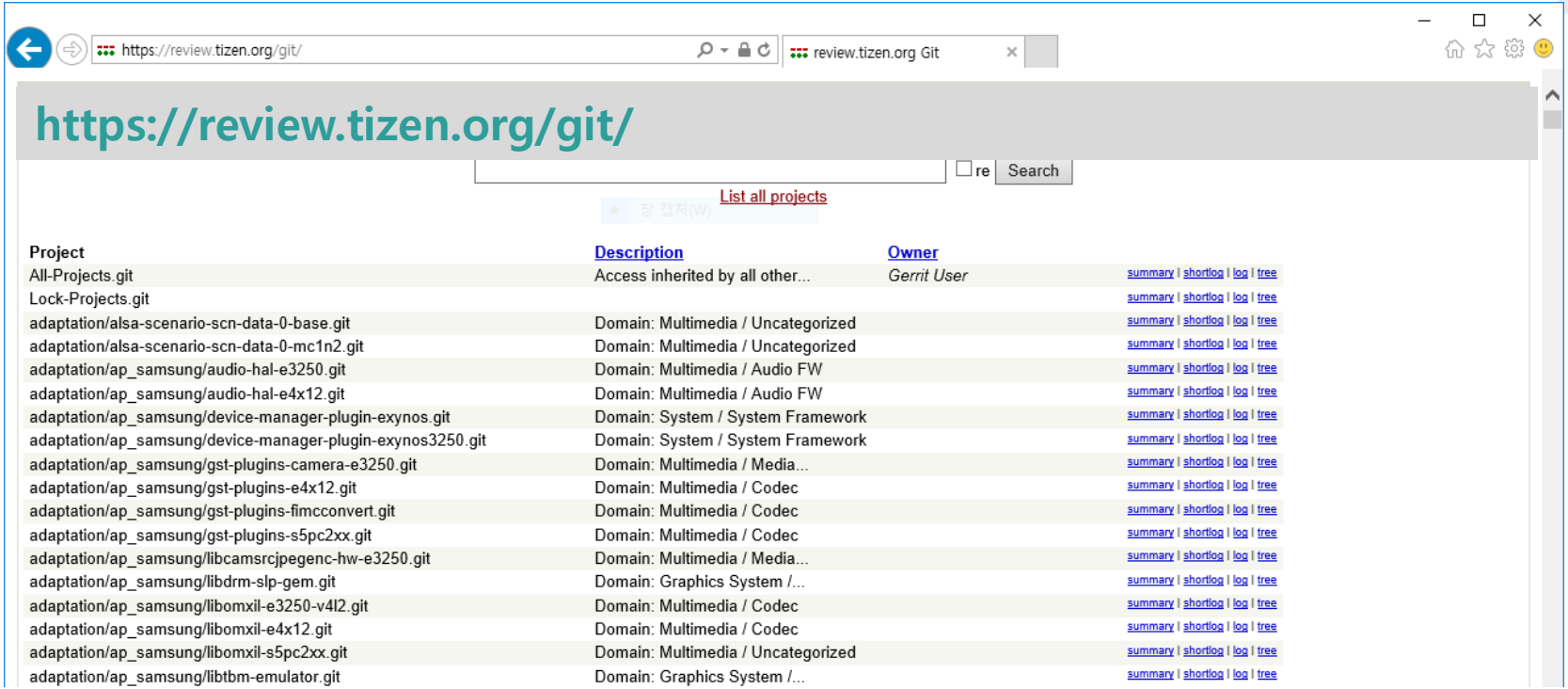
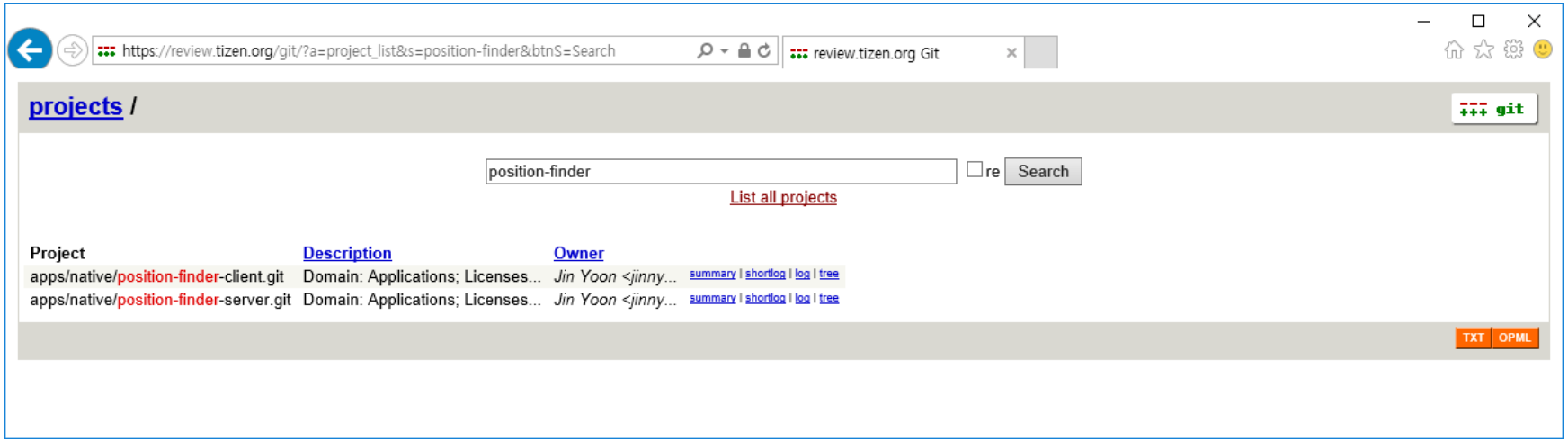
Tizen Repositories



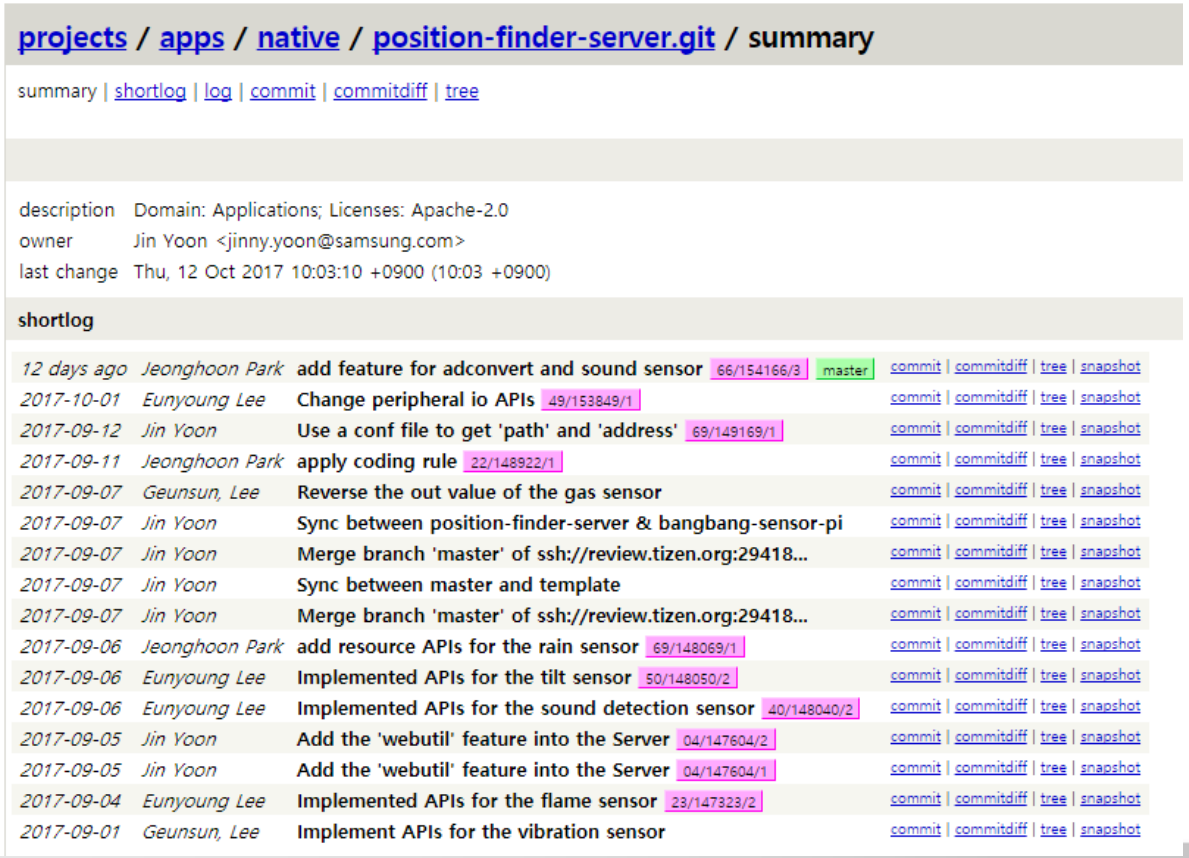
Project	Description	Owner	
All-Projects.git	Access inherited by all other...	*Gerrit User*	summary | shortlog | log | tree
Lock-Projects.git			summary | shortlog | log | tree
adaptation/alsa-scenario-scn-data-0-base.git	Domain: Multimedia / Uncategorized		summary | shortlog | log | tree
adaptation/alsa-scenario-scn-data-0-mc1n2.git	Domain: Multimedia / Uncategorized		summary | shortlog | log | tree
adaptation/ap_samsung/audio-hal-e3250.git	Domain: Multimedia / Audio FW		summary | shortlog | log | tree
adaptation/ap_samsung/audio-hal-e4x12.git	Domain: Multimedia / Audio FW		summary | shortlog | log | tree
adaptation/ap_samsung/device-manager-plugin-exynos.git	Domain: System / System Framework		summary | shortlog | log | tree
adaptation/ap_samsung/device-manager-plugin-exynos3250.git	Domain: System / System Framework		summary | shortlog | log | tree
adaptation/ap_samsung/gst-plugins-camera-e3250.git	Domain: Multimedia / Media...		summary | shortlog | log | tree
adaptation/ap_samsung/gst-plugins-e4x12.git	Domain: Multimedia / Codec		summary | shortlog | log | tree
adaptation/ap_samsung/gst-plugins-fimcconvert.git	Domain: Multimedia / Codec		summary | shortlog | log | tree
adaptation/ap_samsung/gst-plugins-s5pc2xx.git	Domain: Multimedia / Codec		summary | shortlog | log | tree
adaptation/ap_samsung/libcamsrcjpegenc-hw-e3250.git	Domain: Multimedia / Media...		summary | shortlog | log | tree
adaptation/ap_samsung/libdrm-slp-gem.git	Domain: Graphics System /...		summary | shortlog | log | tree
adaptation/ap_samsung/libomxil-e3250-v4l2.git	Domain: Multimedia / Codec		summary | shortlog | log | tree
adaptation/ap_samsung/libomxil-e4x12.git	Domain: Multimedia / Codec		summary | shortlog | log | tree
adaptation/ap_samsung/libomxil-s5pc2xx.git	Domain: Multimedia / Uncategorized		summary | shortlog | log | tree
adaptation/ap_samsung/libtbm-emulator.git	Domain: Graphics System /...		summary | shortlog | log | tree

Today Repositories



- position-finder-server
- position-finder-client

Current Status



projects / apps / native / position-finder-server.git / summary

summary | shortlog | log | commit | commitdiff | tree

description Domain: Applications; Licenses: Apache-2.0
owner Jin Yoon <jinny.yoon@samsung.com>
last change Thu, 12 Oct 2017 10:03:10 +0900 (10:03 +0900)

shortlog

12 days ago	*Jeonghoon Park*	**add feature for adconvert and sound sensor** 66/154166/3 master	commit | commitdiff | tree | snapshot
2017-10-01	*Eunyoung Lee*	**Change peripheral io APIs** 49/153849/1	commit | commitdiff | tree | snapshot
2017-09-12	*Jin Yoon*	**Use a conf file to get 'path' and 'address'** 69/149169/1	commit | commitdiff | tree | snapshot
2017-09-11	*Jeonghoon Park*	**apply coding rule** 22/148922/1	commit | commitdiff | tree | snapshot
2017-09-07	*Geunsun, Lee*	**Reverse the out value of the gas sensor**	commit | commitdiff | tree | snapshot
2017-09-07	*Jin Yoon*	**Sync between position-finder-server & bangbang-sensor-pi**	commit | commitdiff | tree | snapshot
2017-09-07	*Jin Yoon*	**Merge branch 'master' of ssh://review.tizen.org:29418...**	commit | commitdiff | tree | snapshot
2017-09-07	*Jin Yoon*	**Sync between master and template**	commit | commitdiff | tree | snapshot
2017-09-07	*Jin Yoon*	**Merge branch 'master' of ssh://review.tizen.org:29418...**	commit | commitdiff | tree | snapshot
2017-09-06	*Jeonghoon Park*	**add resource APIs for the rain sensor** 69/148069/1	commit | commitdiff | tree | snapshot
2017-09-06	*Eunyoung Lee*	**Implemented APIs for the tilt sensor** 50/148050/2	commit | commitdiff | tree | snapshot
2017-09-06	*Eunyoung Lee*	**Implemented APIs for the sound detection sensor** 40/148040/2	commit | commitdiff | tree | snapshot
2017-09-05	*Jin Yoon*	**Add the 'webutil' feature into the Server** 04/147604/2	commit | commitdiff | tree | snapshot
2017-09-05	*Jin Yoon*	**Add the 'webutil' feature into the Server** 04/147604/1	commit | commitdiff | tree | snapshot
2017-09-04	*Eunyoung Lee*	**Implemented APIs for the flame sensor** 23/147323/2	commit | commitdiff | tree | snapshot
2017-09-01	*Geunsun, Lee*	**Implement APIs for the vibration sensor**	commit | commitdiff | tree | snapshot

Required Level

- Need
  - C Language(Beginner Level)
- No need
  - Raspberry Pi & Sensor
  - Tizen Platform
  - IoT

https://facebook.com/groups/tizentalks