



삼성 오픈소스 컨퍼런스
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Cross-Device Convergence

A Synergetic Approach with Multiple Tizen Devices

삼성전자 소프트웨어센터
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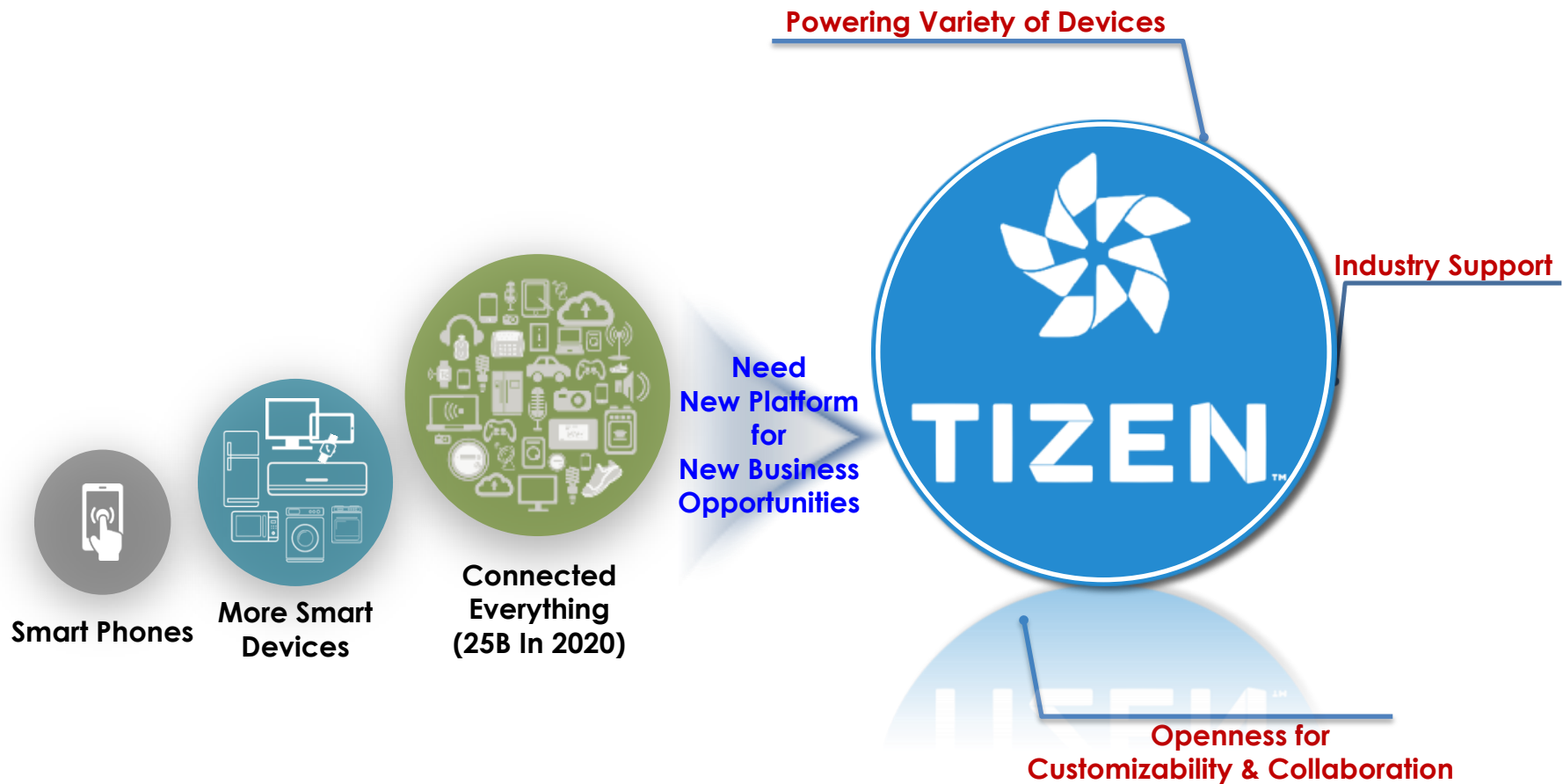
2015-10-27

1. Now Tizen is
2. What's Tizen PASS
3. Key Features & Use Cases
4. How to use Tizen PASS



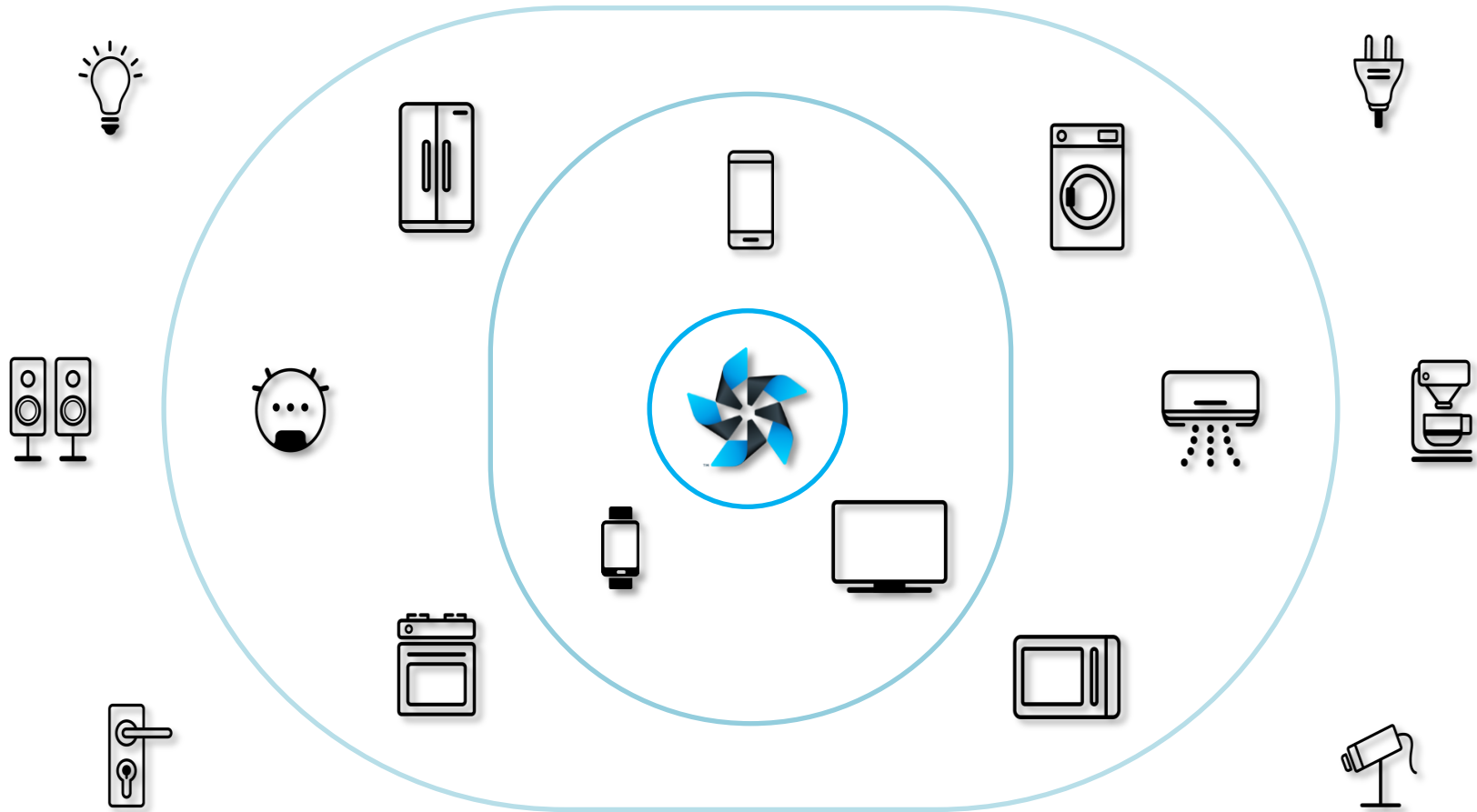
1. Now Tizen is

Why Tizen?



1. Now Tizen is

TIZEN is expanding



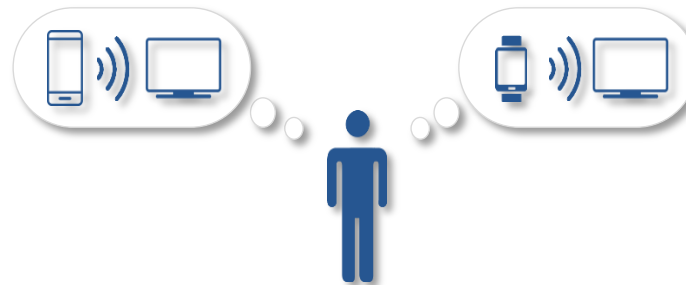
1. Now Tizen is

User Experience was

Few Devices



Few Tasks



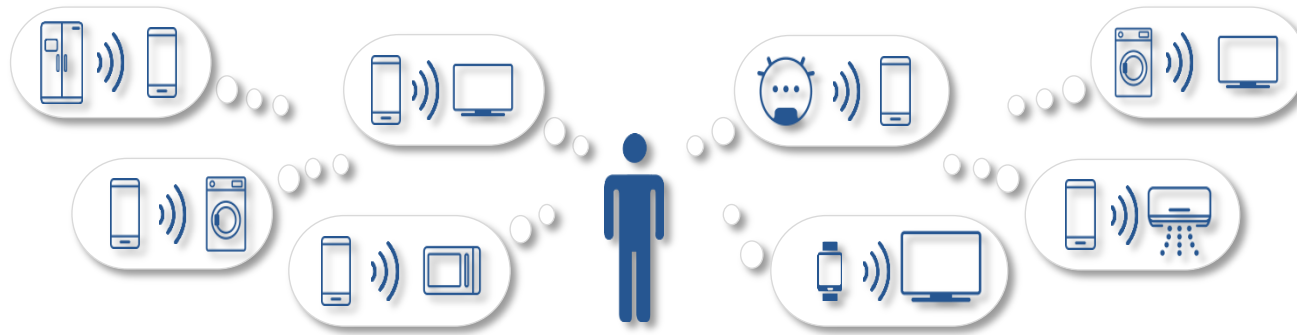
1. Now Tizen is

User Experience will be

More Devices

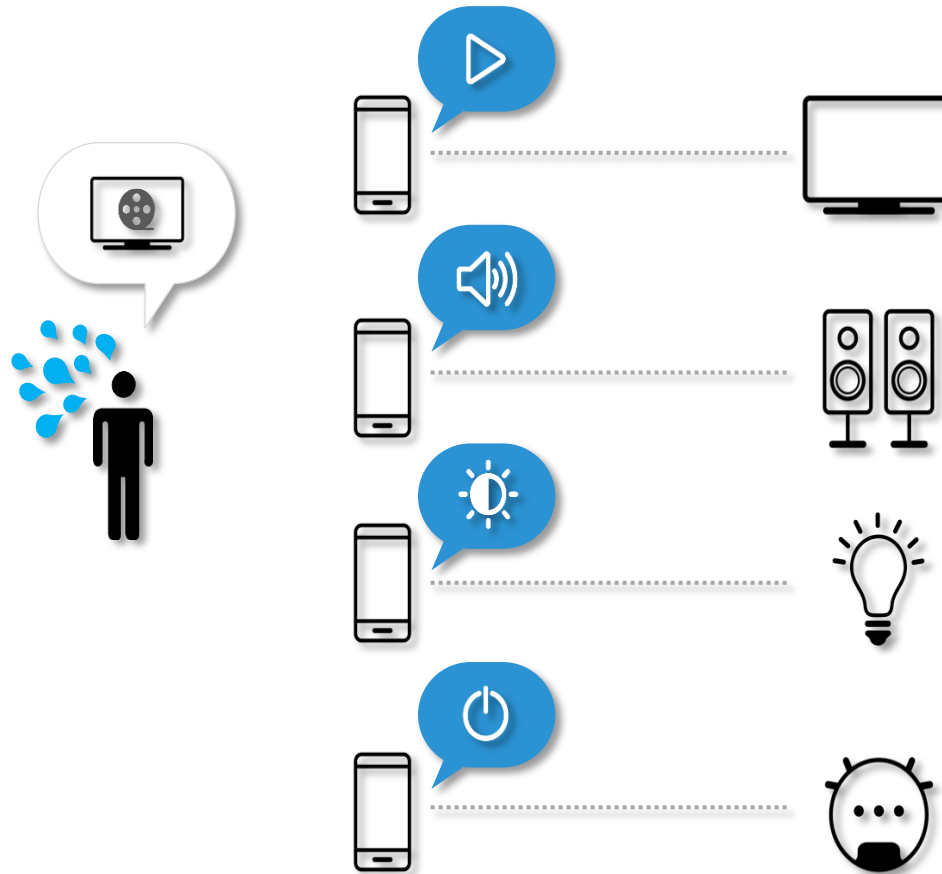


More Tasks



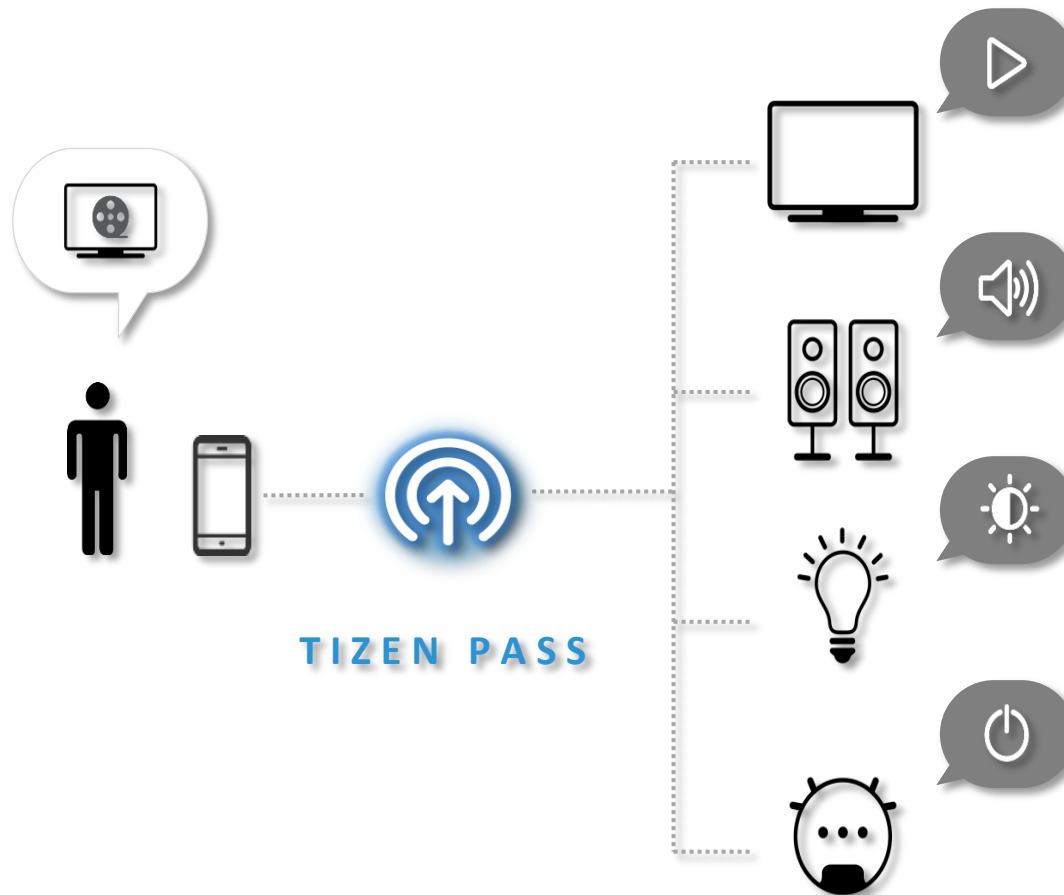
1. Now Tizen is

So they might be doing



1. Now Tizen is

What it should be



2. What's Tizen PASS

Main Concept - Introduction Movie



2. What's Tizen PASS

Main Concept



New Cross-Device Convergence Experience
more suitable for **multi-profiles**

//

*Tizen PASS aims to move beyond and 'Pass through' the existing barriers in multi-device environment.
It was also intended to resemble the act of 'Passing' an object from one to another for more intuitive understanding of the concept.*

//

2. What's Tizen PASS

What it Does



More Things



Action PASS

Multi Device Control

More Services (Apps)



Contents PASS

Contents Sharing
& App Mash-Up

More Places

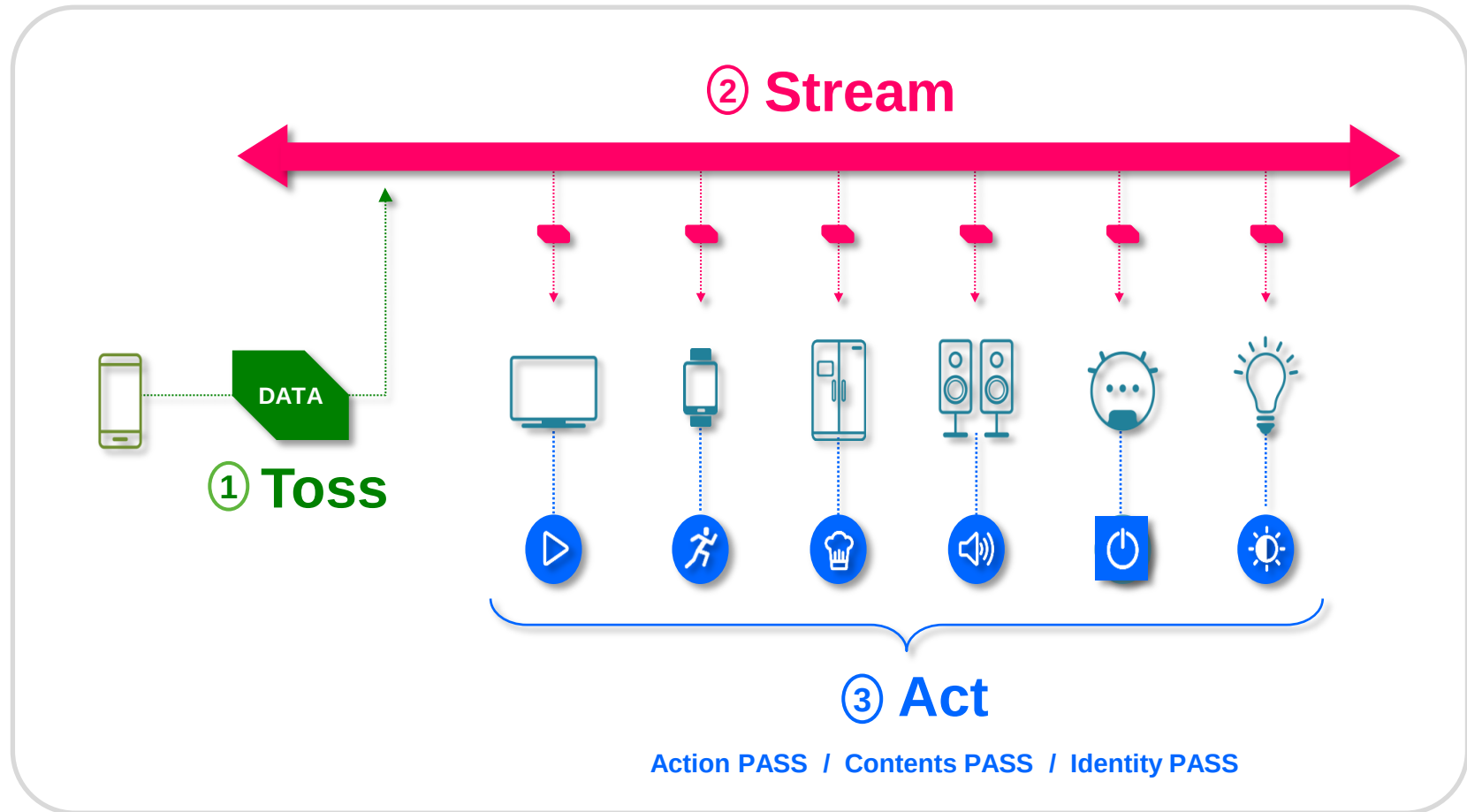


Identity PASS

Cross-Device
Personalization

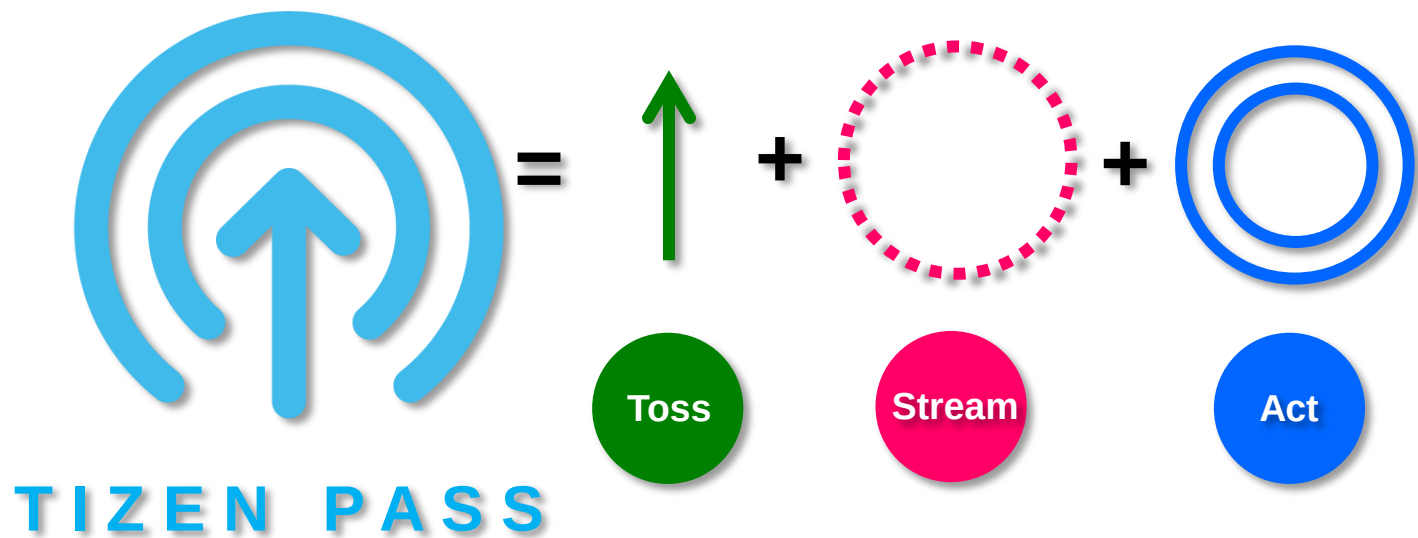
2. What's Tizen PASS

How it Works (1)



2. What's Tizen PASS

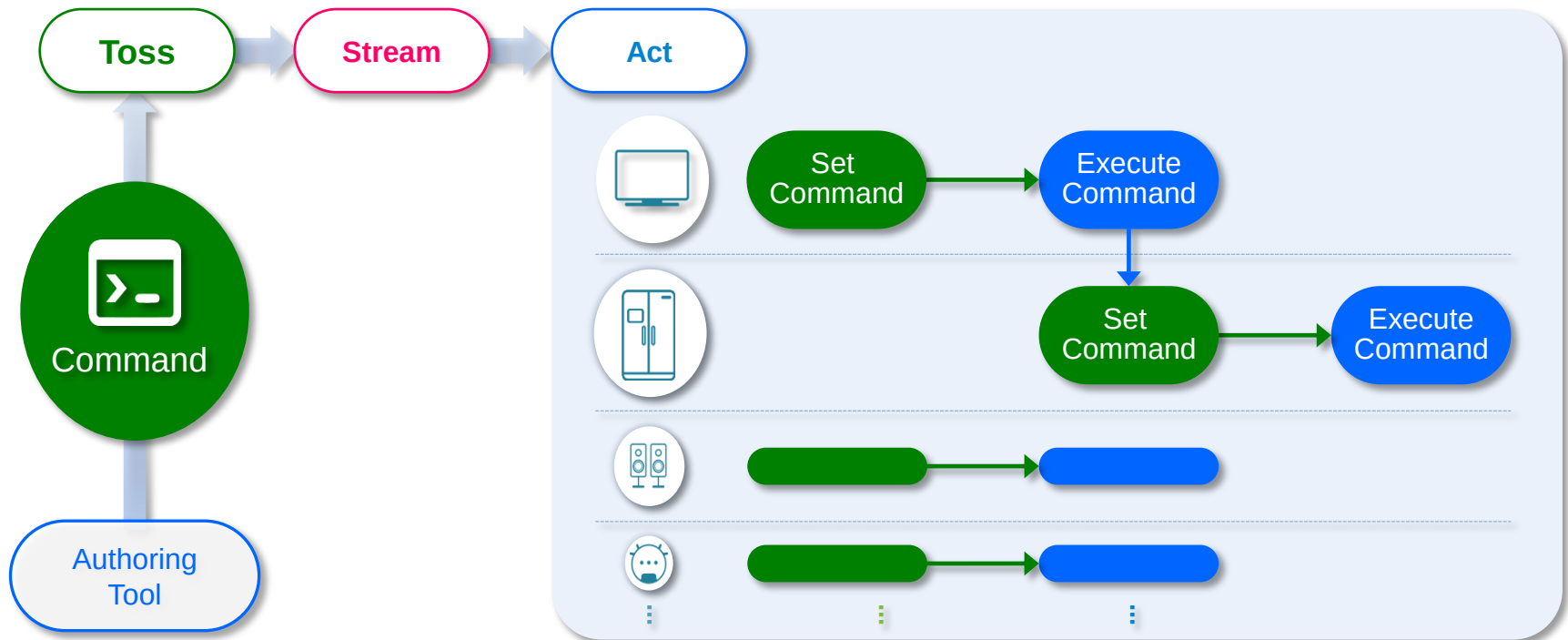
How it Works (2)



3. Key Features & Use Cases

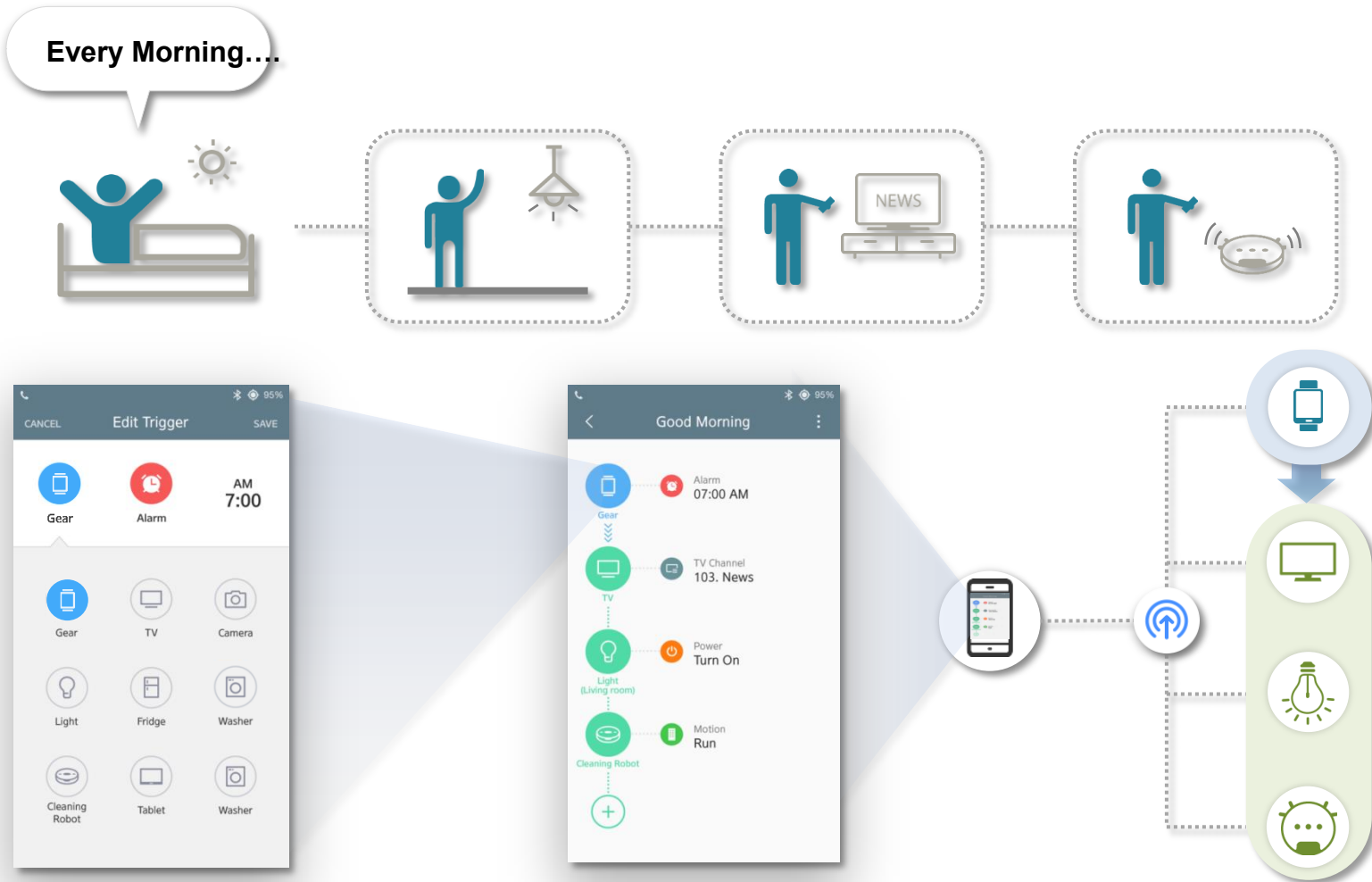
Action PASS - Automate Daily Tasks

- Use authoring tool to Toss customized commands for multi-device control (Simultaneously / Trigger Based)



3. Key Features & Use Cases

Action PASS - Use Case (1)



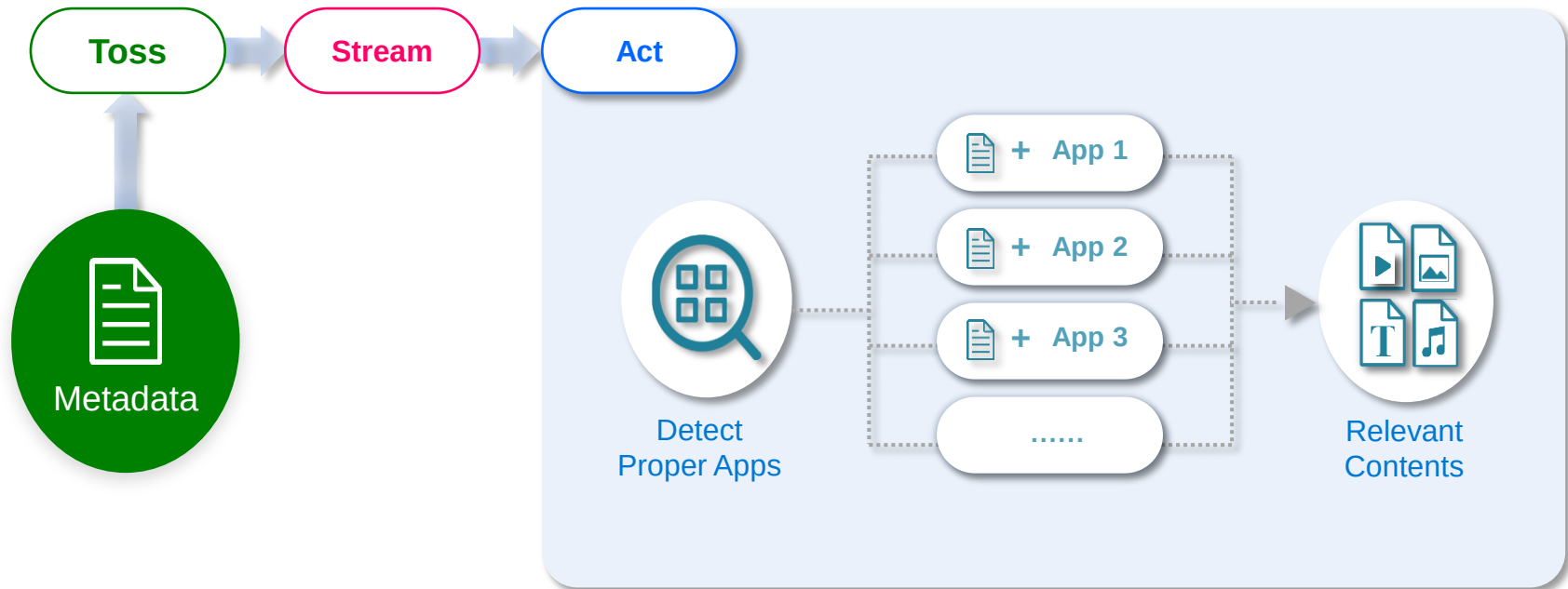
3. Key Features & Use Cases

Action PASS - Use Case (2)



Contents PASS - Relevant Contents at a Glance

- Toss Metadata to device connected to Stream.
When device receives data, it provides relevant information from proper apps



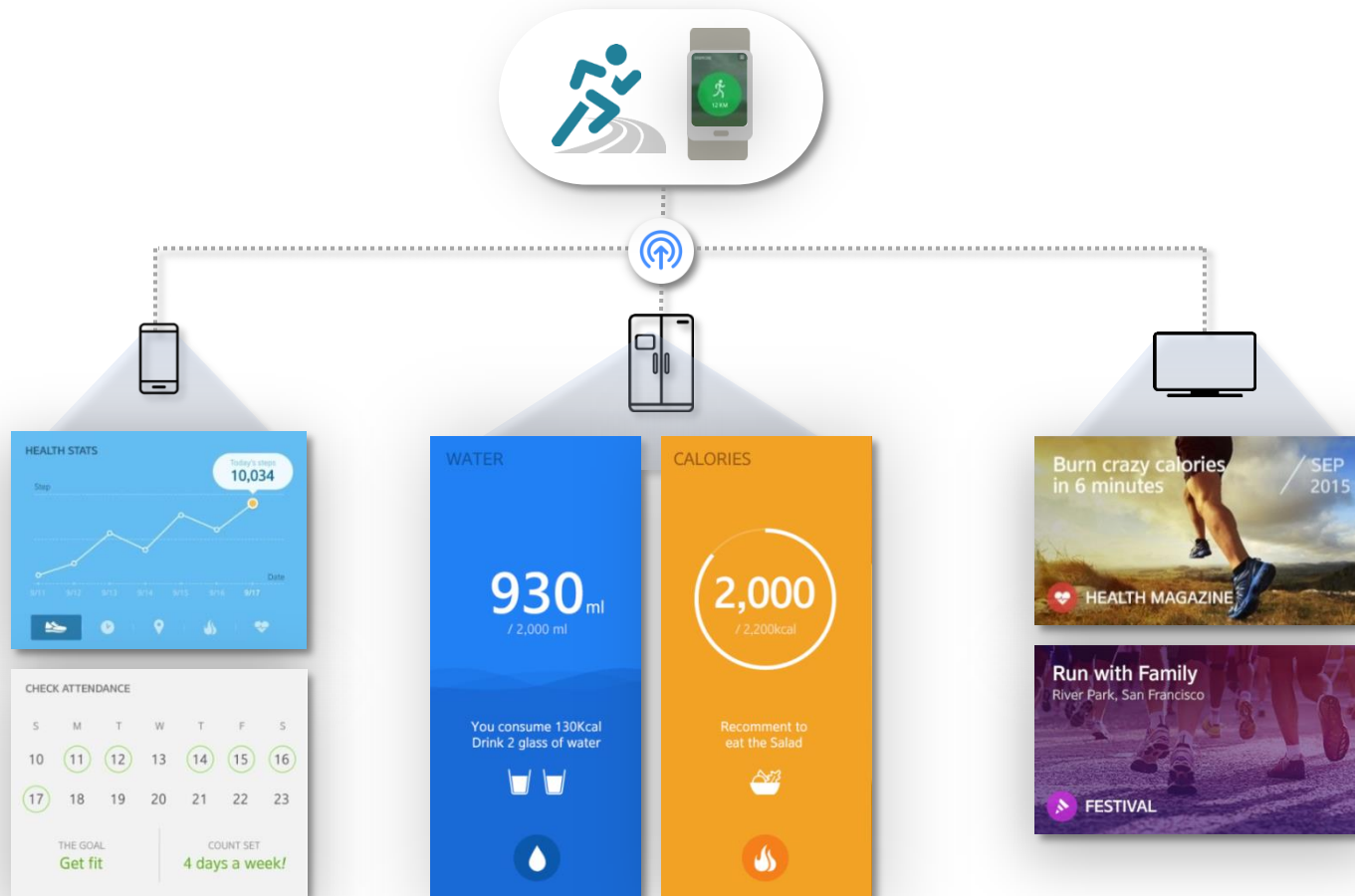
3. Key Features & Use Cases

Contents PASS - Use Case (1)



3. Key Features & Use Cases

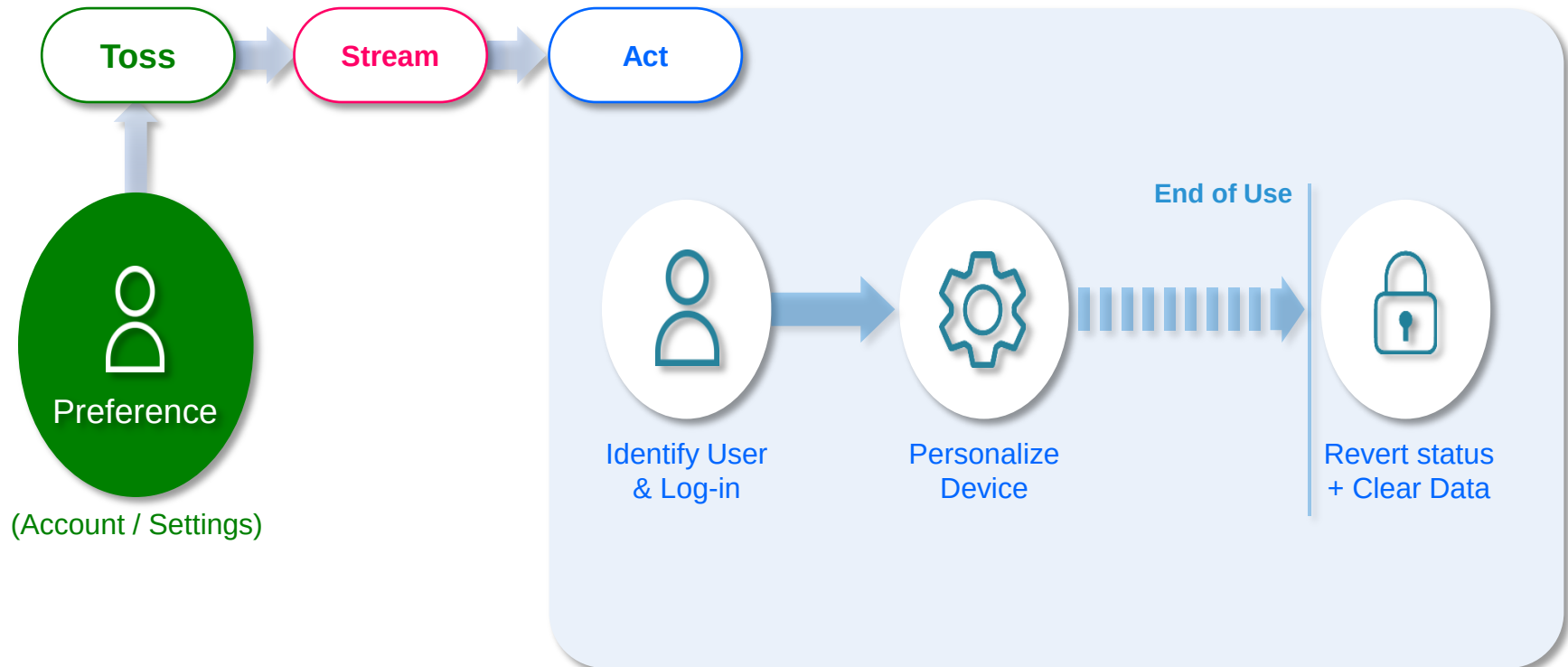
Contents PASS - Use Case (2)



3. Key Features & Use Cases

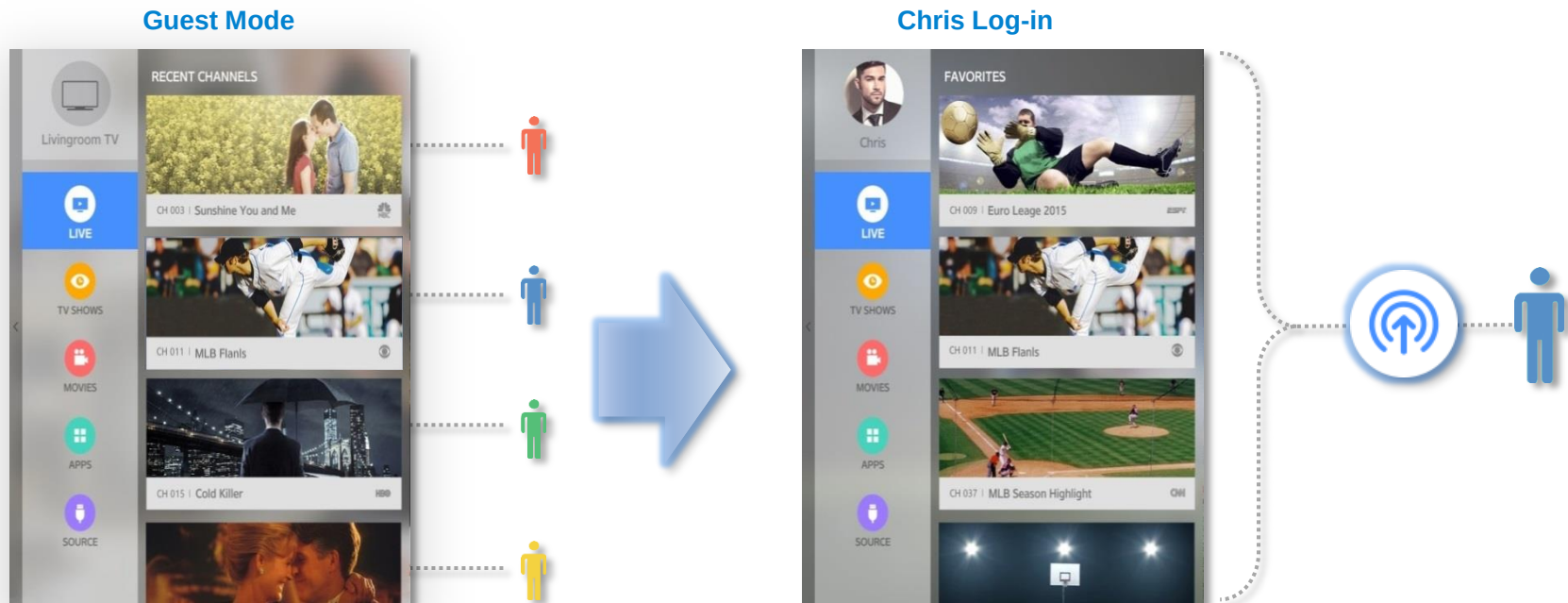
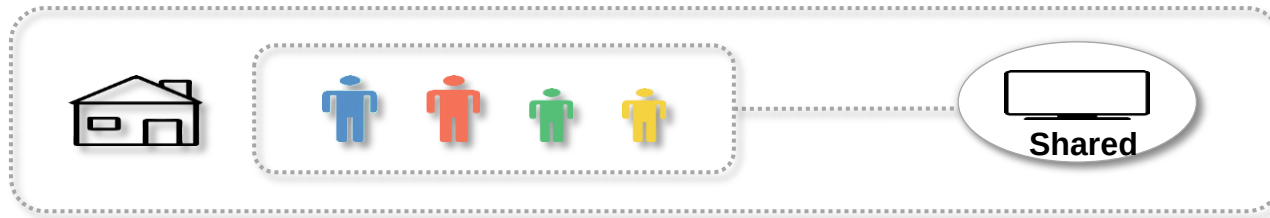
Identity PASS - Let every device welcome you

- Toss Preference information from private device to log-in & Personalize device.
(At the end of use, update & retrieve data)



3. Key Features & Use Cases

Identity PASS - Use Case (1)

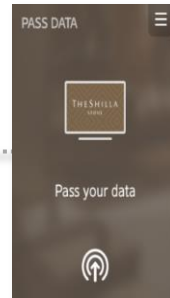
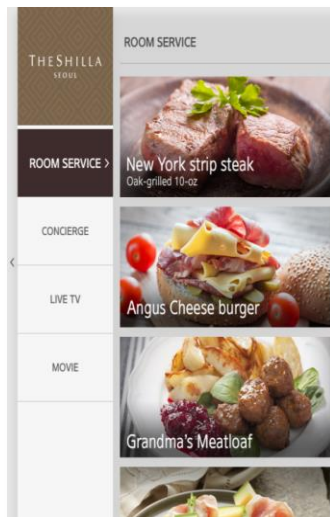


3. Key Features & Use Cases

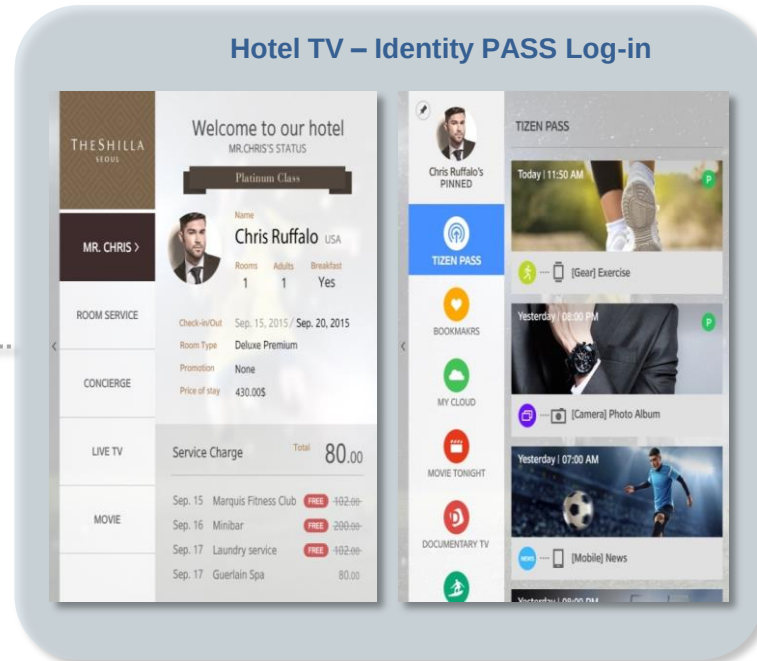
Identity PASS - Use Case (2)



Hotel TV Default

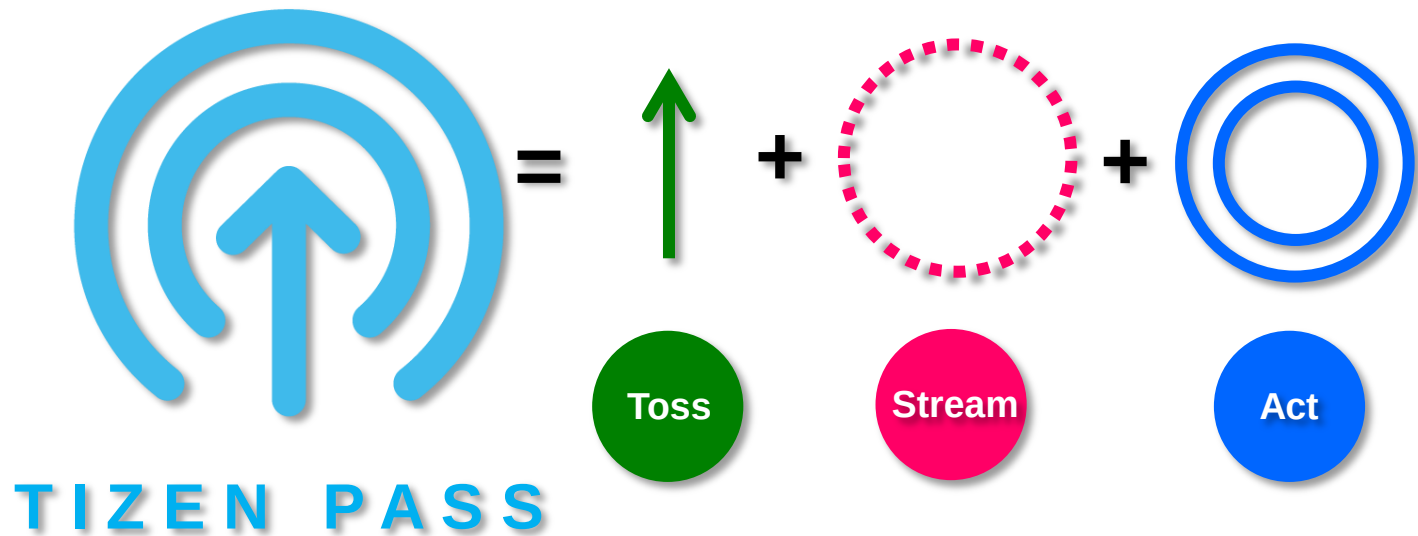


Hotel TV – Identity PASS Log-in

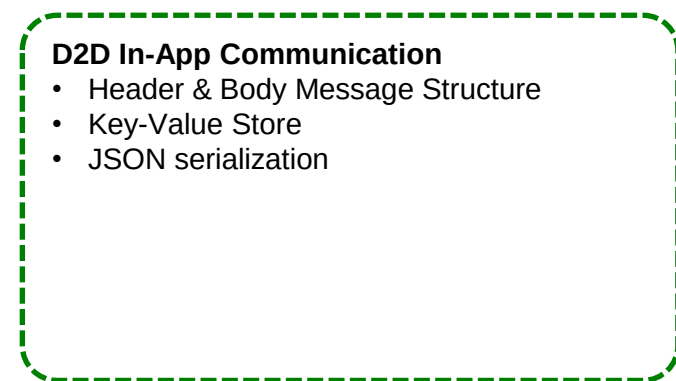
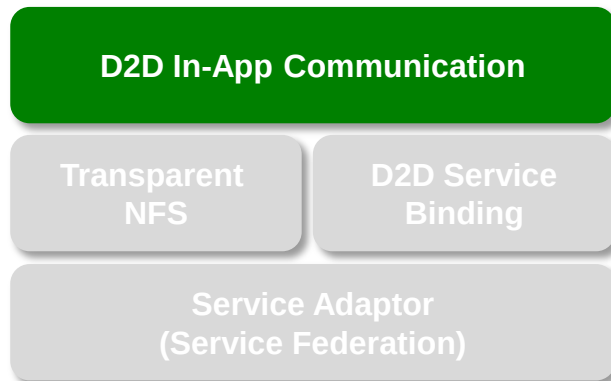
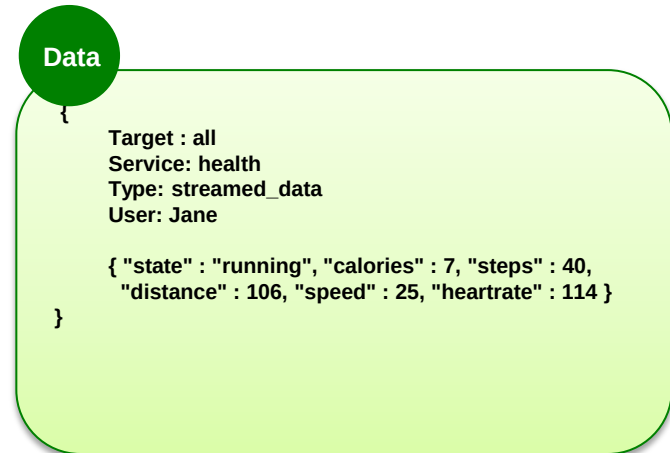
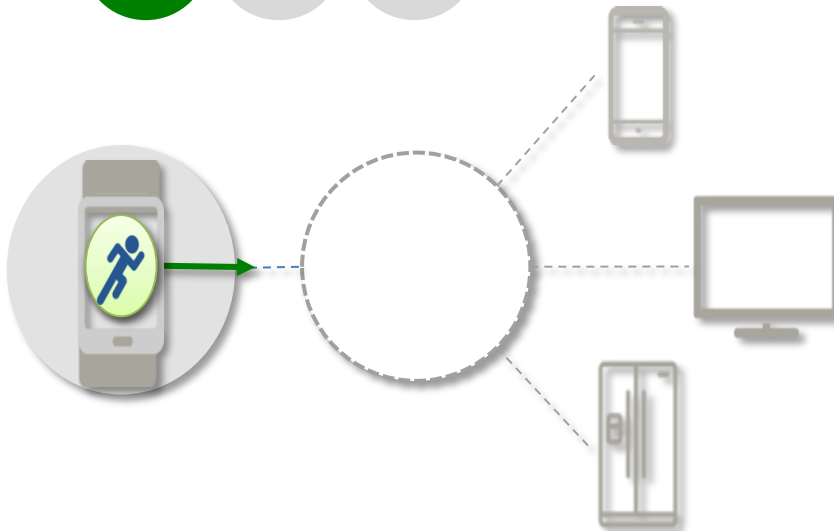


4. How to use Tizen PASS

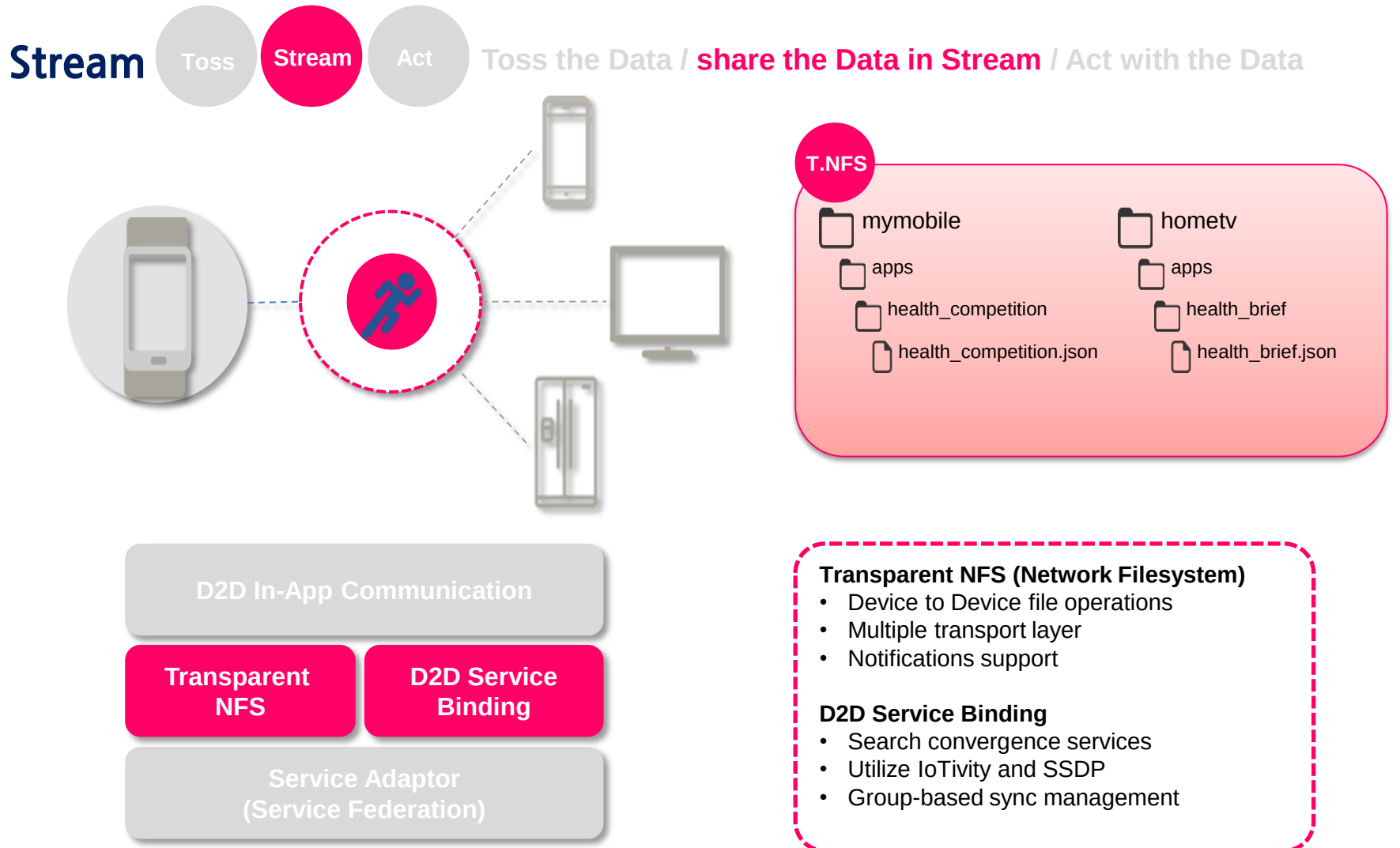
Tizen PASS = TOSS + Stream + Act



4. How to use Tizen PASS

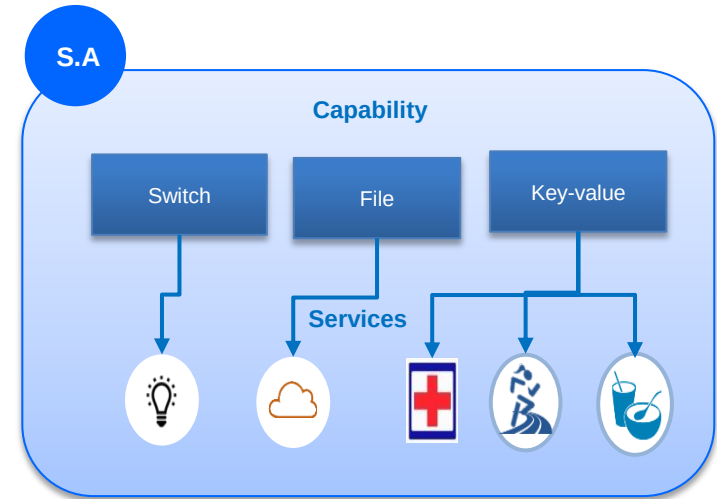
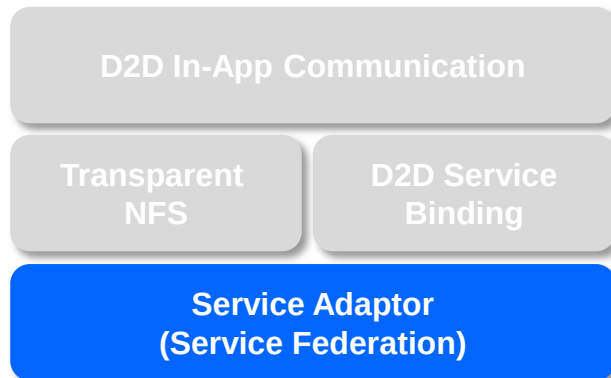
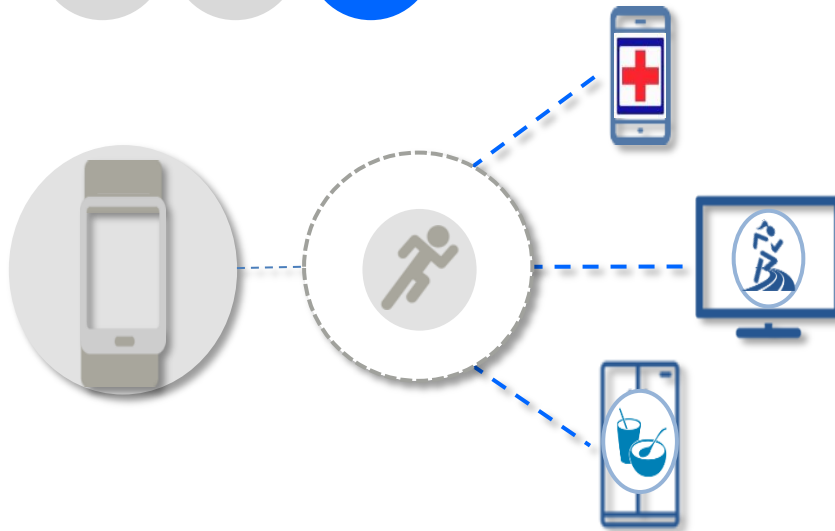


4. How to use Tizen PASS



4. How to use Tizen PASS

Act Toss Stream **Act** Toss the Data / share the Data in Stream / **Act with the Data**

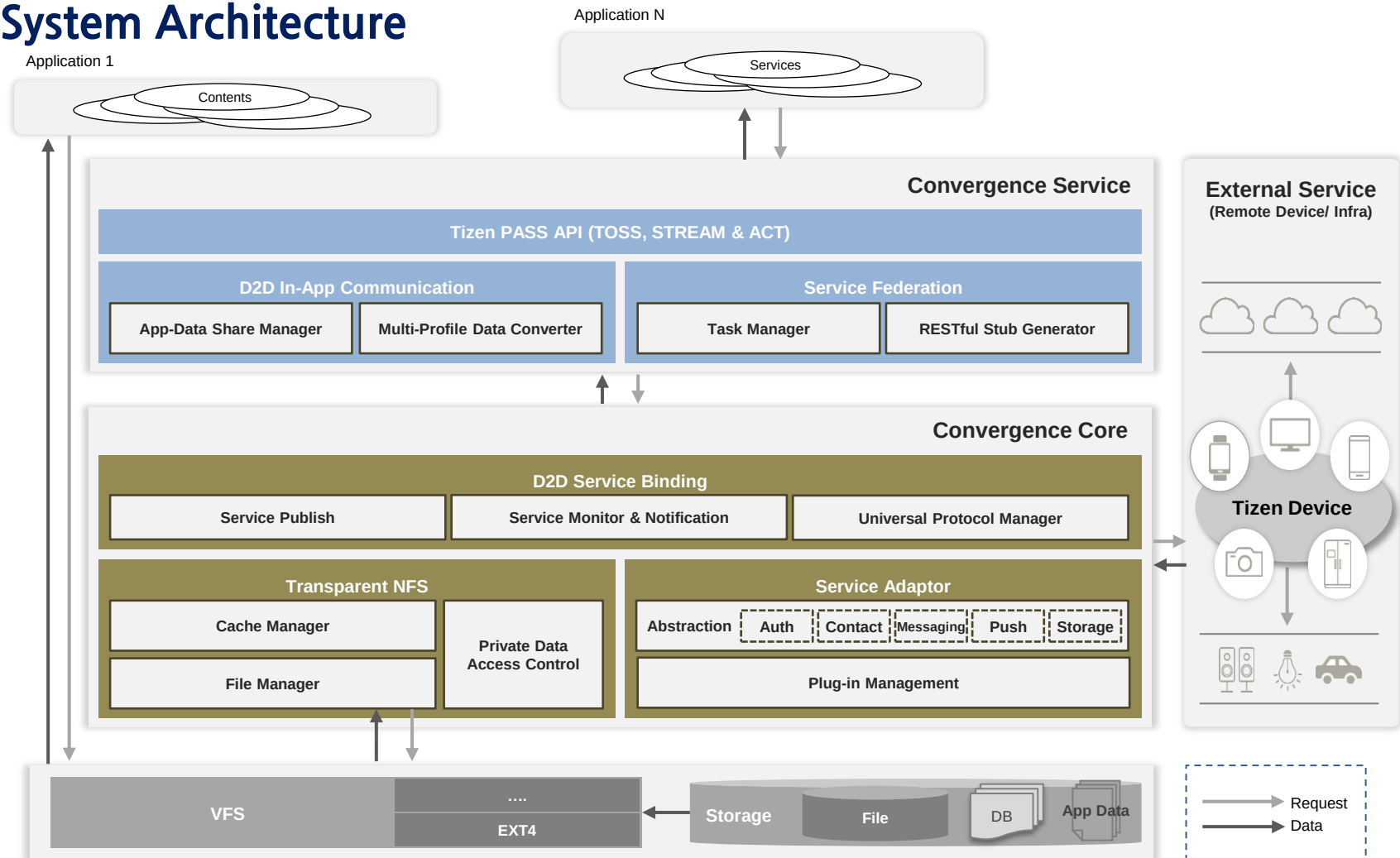


Service Adaptor (Service Federation)

- Access Rich Services via Uniform APIs
- Download Plug-in of Service Providers
- Integrate External Service directly into your App
- Syncing & Launching Service across Devices

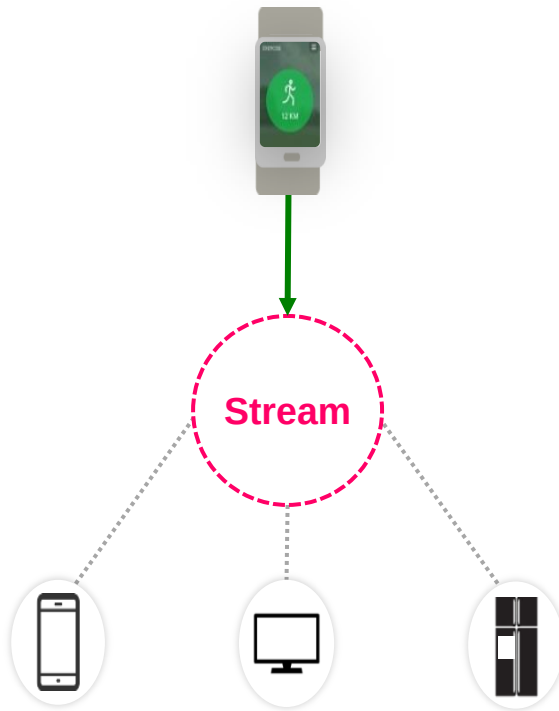
4. How to use Tizen PASS

System Architecture



4. How to use Tizen PASS

Reference in Contents PASS

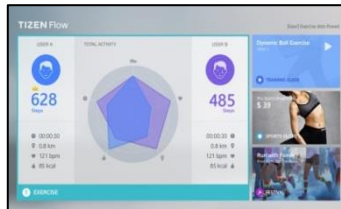


Send Data to Stream

```
pass_toss_create(pass_toss_h *toss)
pass_toss_set_function(pass_toss_h toss, pass_function_h function)
pass_toss_add_data(pass_toss_h toss, const char *key, const char *value)
pass_toss_send_to_stream(pass_toss_h toss, pass_toss_cb callback, void *user_data)
```

Receive Data from Stream

```
pass_stream_create(pass_stream_h *stream)
pass_stream_add_watch(pass_stream_h stream, pass_function_h function,
    pass_stream_watched_toss_cb callback, void *user_data)
pass_stream_watched_toss_cb(pass_stream_h stream, pass_toss_h toss, void *user_data)
```

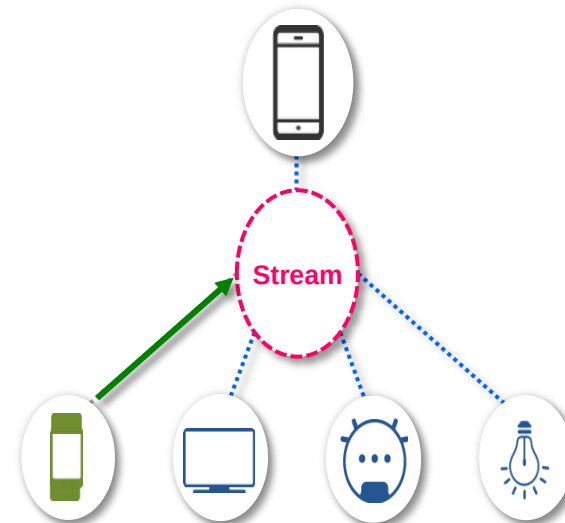
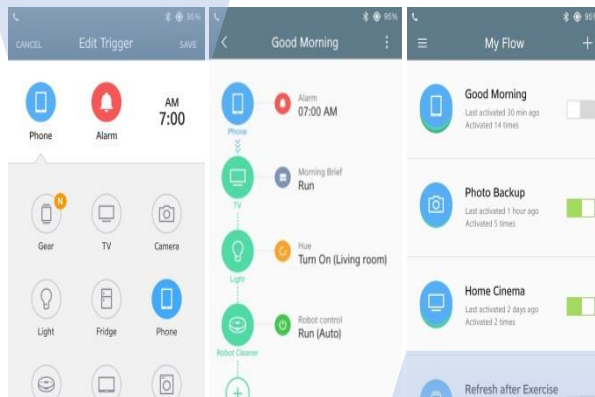


4. How to use Tizen PASS

Reference in Action PASS

Single View on Stream

```
pass_stream_create(pass_stream_h *stream)  
pass_stream_foreach_device(pass_stream_h stream, pass_device_cb callback, void *user_data)  
pass_stream_add_watch(pass_stream_h stream, pass_function_h function, pass_stream_watched_toss_cb callback, void *user_data)
```



Launch Remote App within Cross-Devices

```
pass_act_create(pass_act_h *act)  
pass_act_set_function(pass_act_h act, pass_function_h function)  
    pass_act_add_data(pass_act_h act, const char *key, const char *value)  
pass_act_send_launch_request(pass_act_h act, pass_act_cb callback, void *user_data)
```

4. How to use Tizen PASS

Reference - Sample App Demo



Cross-Device Convergence on Tizen PASS



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