

SAMSUNG

TEP Migration



Samsung Developers Site

Samsung Developer Site



SSSP API / H.Browser API

- Public Privileged API (Weak security)
- Verification-less of partner apps by Samsung

- *API, Guides, SDK and Samples for legacy devices: SDF B2B (Until the legacy platform sunset at the market)*

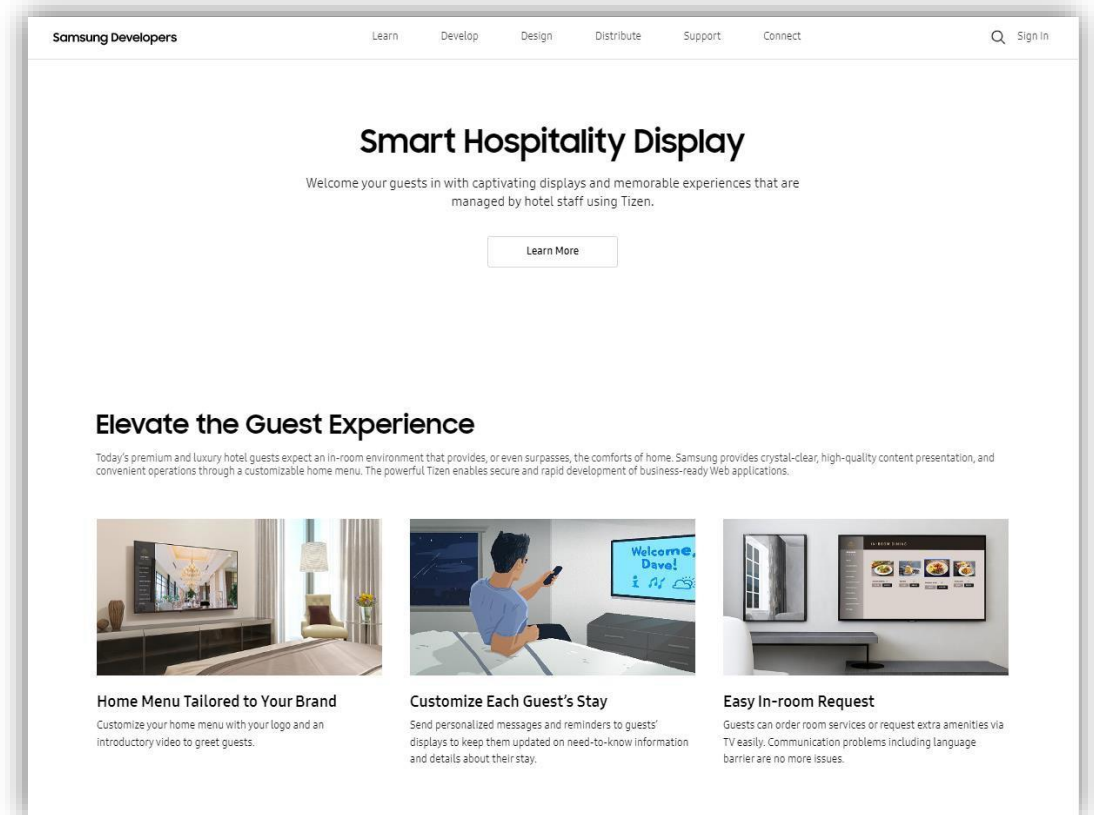
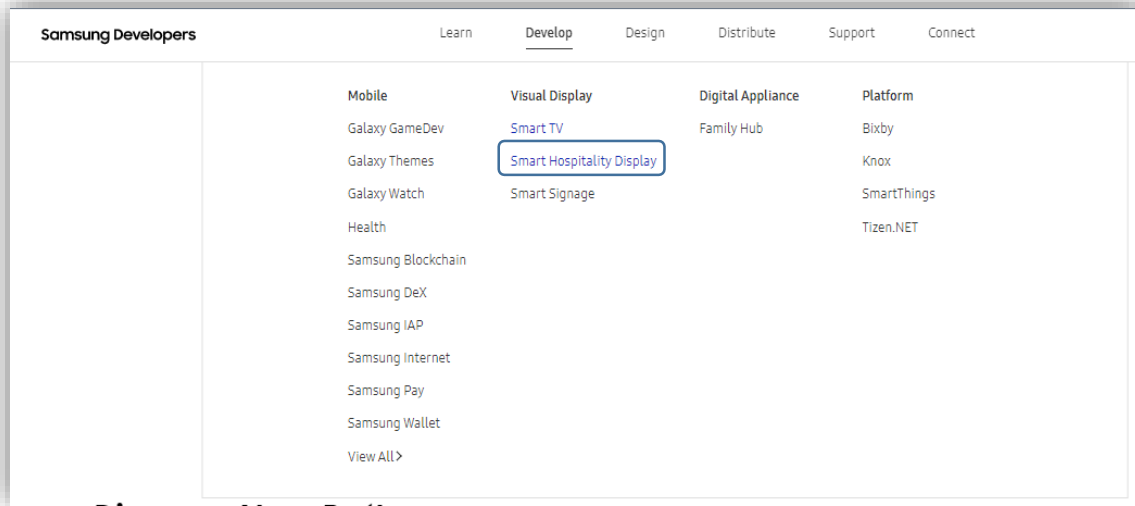
Samsung Developers

Tizen Samsung Product API (TEP API)

- Partner Privileged API (Strengthened security same as Smart TV)
- App submission to TV Seller Office (App verification system is available if required)

- *API, Guides, SDK and Samples for TEP are published at the Samsung Developers (Since Tizen 6.5)*

Samsung Developer Site



<https://developer.samsung.com/hospitality-display>

Samsung Developer Site



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Distribute Your Apps

Discover how the Samsung Developer Program can help you bring your amazing apps to Samsung device users around the world.

How To Distribute

Now is the perfect opportunity to publish applications for Samsung Smart Hospitality Displays.

Checklist

Quick guide to check the essential items required before submitting the app on Samsung Apps TV...

Smart TV Seller Office

Distribute your applications developed with Tizen.

Tizen Business Manager Portal

Enroll, Zero Touch Configure and Manage devices with Tizen Enterprise Portal.

[Get Started](#)

<https://developer.samsung.com/hospitality-display>

Samsung Developers Learn **Develop** Design Distribute Support Connect Sign In

DESIGN DEVELOP **API REFERENCES** SAMPLES TV LEGACY PLATFORM

Smart TV / Web API References / Samsung Product API References

Broadcast API

To use Samsung Product API,

```
<script type="text/javascript" src="$WEBAPIS/webapis/webapis.js"></script>
```

Should be loaded in index.html

The module defines the Product's broadcast functionalities of that are provided in the Tizen Samsung Product API.
User can control the information that is related to the broadcast functionalities.

Since : 6.5

Product : B2B (HTV)

Privilege Level : Partner

Privilege : http://developer.samsung.com/privilege/broadcast

Summary of Interfaces and Methods

Interface	Method
BroadcastManagerObject	

HBrowser B2B API vs TEP API

SAMSUNG B2B API - Overview



Samsung B2B API is used on HTV Tizen 6.0 and below, this API allows to use B2B specific device API.

```
<script type="text/javascript" src="$B2BAPIS/b2bapis/b2bapis.js"></script>
```

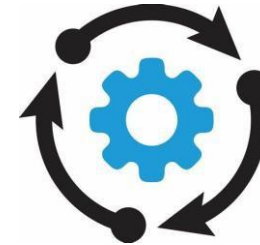
Modules:

B2B Control API : Allows access control to B2B TV functionality (NTP, FW Update, etc.)

B2B Broadcast API: To set RF channel map, audio, subtitles etc.

B2B Power API: Control the Power of the TV (On, Off, state, etc.)

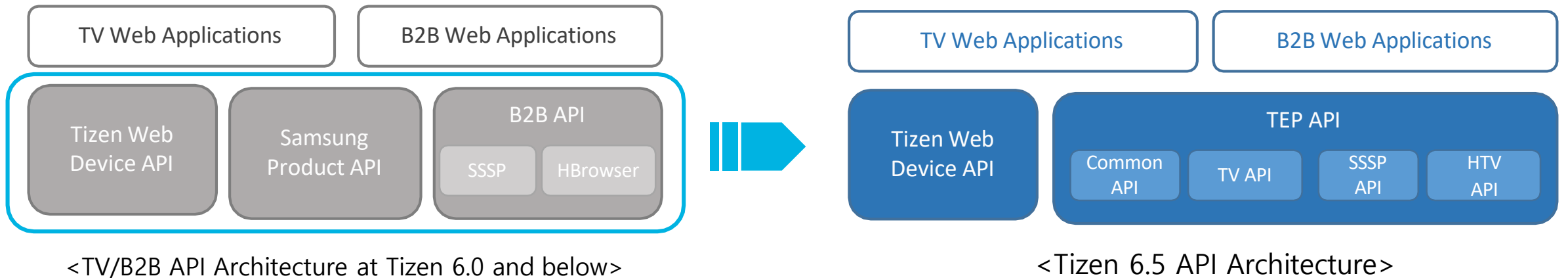
B2B AVPlay: To use native AVPlay with DRM



Samsung B2B API ➔ Samsung Product API



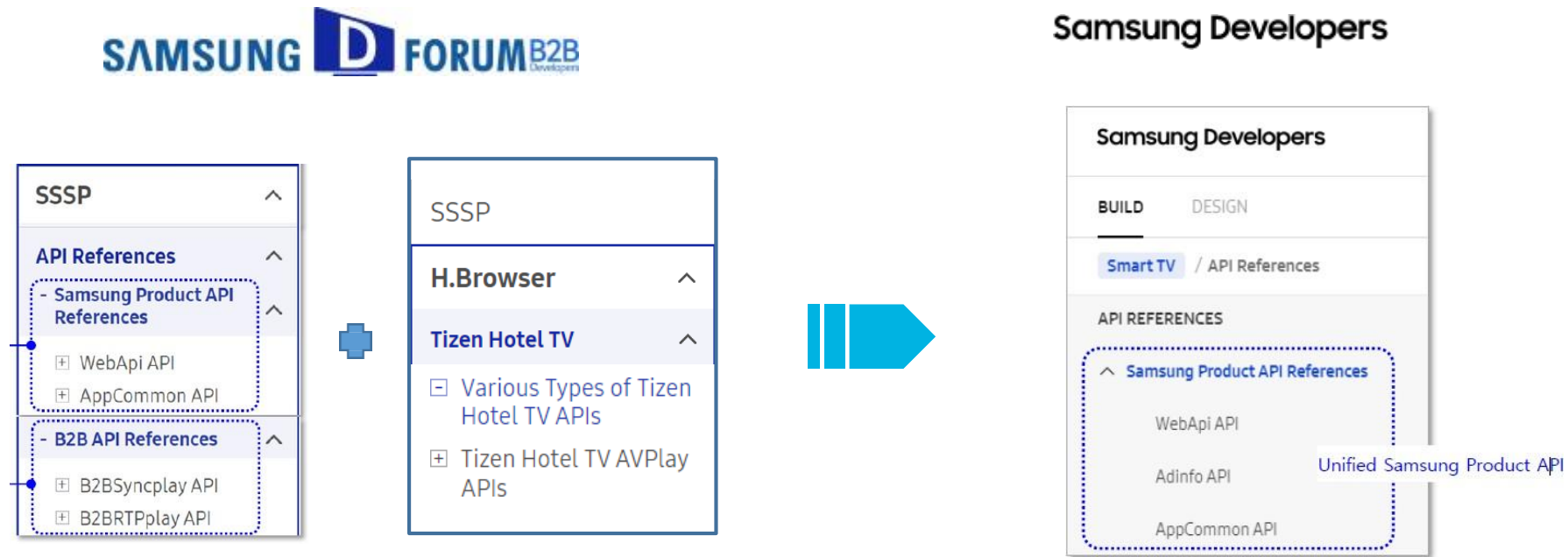
- Transformed to much **higher security level** than B2B API (SSSP / HBrowser), as Samsung Product API groups
- Single Integrated Web API JavaScript file exist for B2B partners (**webapis.js**)



Samsung B2B API ➔ Samsung Product API



- There is not other API for Samsung Product API, but an unified group of Samsung Product API



App Transition

Transition



B2B API

B2Bbroadcast
AVPlay
B2bpower
B2bcontrol
Network
WidgetData
ProductInfo
SystemInfo (*Audio/Video Codec*)

Tizen Samsung Product API

Broadcast
AVPlay
RemotePower
SystemControl
Network
WidgetData
ProductInfo
SystemInfo

TIZEN API

Download API
System Info (*Memory & Capabilities*)
Launch App Control
Screen Mirroring
Sound Mirroring
SmartHub

Transition



B2B Broadcast

```
<script  
type="text/javascript"src="$B2BAPIS/b2bapis/b2bapis.js"  
>script>
```

```
b2bapis.B2BBroadcast.tuneDirect(Channel_Info,  
Callbacks)
```

Tizen Samsung Product API

```
<script type='text/javascript'  
src='$WEBAPIS/webapis/webapis.js'></script>
```

```
window.webapis.broadcast.tuneDirect(Channel_Info,  
Callbacks)
```



Transition



B2B Power API

```
<script type="text/javascript"src="$B2BAPIS/b2bapis/b2bapis.js">script</script>
```

Privilege:

<http://developer.samsung.com/privilege/b2bcontrol>

<http://developer.samsung.com/privilege/b2bpower>

```
b2bapis.b2bpower.setPowerOn();  
b2bapis.b2bpower.setPowerOff();  
b2bapis.b2bpower.getPowerState();  
b2bapis.b2bpower.getVersion();
```

Tizen Samsung Product API

```
<script type='text/javascript' src='$WEBAPIS/webapis/webapis.js'></script>
```

Privilege: <http://developer.samsung.com/privilege/systemcontrol>

```
webapis.remotepower.powerOn();  
webapis.remotepower.powerOff();  
webapis.remotepower.getPowerState();  
webapis.remotepower.getVersion();
```

API TABLE

BROADCAST



▶ Web APIS Script

```
<script type="text/javascript" src="$WEBAPIS/webapis/webapis.js"></script>
```

▶ Privilege

```
<tizen:privilege name="http://developer.samsung.com/privilege/broadcast"/>
```

Feature Name	API Name	Tizen 6.5
B2BBroadcast	getTotalAudioInfo	webapis.broadcast.getTotalAudio
	setCurrentAudio	webapis.broadcast.setCurrentAudio
	getTotalSubtitleInfo	webapis.broadcast.getTotalSubtitle
	getCurrentSubtitle	webapis.broadcast.getCurrentSubtitle
	setCurrentSubtitleIndex	webapis.broadcast.setCurrentsSubtitle
	setHotelDrmForensicData	webapis.broadcast.setHotelDrmForensic Data
	tuneDirect	webapis.broadcast.tuneDirect
	clearRating	webapis.broadcast.clearRatings

<https://developer.samsung.com/smarttv/develop/devices/b2btv/broadcast.html>

Power



▶ Web APIS Script

```
<script type="text/javascript" src="$WEBAPIS/webapis/webapis.js"></script>
```

▶ Privilege

```
<tizen:privilege name="http://developer.samsung.com/privilege/systemcontrol"/>
```

Feature Name	API Name	Tizen 6.5
POWER API	B2bapis.b2bpower.setPowerOn	webapis.remotepower.powerOn
	B2bapis.b2bpower.setPowerOff	webapis.remotepower.powerOff
	B2bapis.b2bpower.getPowerState	webapis.remotepower.getPowerState
		webapis.remotepower.getVirtualStandBy

<https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/remotepower-api.html>

Download, Launch APP & TVInfo

Web APIS Script

Feature Name	API Name	Tizen 6.5
Download API	Start	tizen.download.start
	cancel	tizen.download.cancel
	pause	tizen.download.pause
	resume	tizen.download.resume
	getMIMEMType	tizen.download.getMIMEMType
	getDownloadRequest	tizen.download.getDownloadRequest
	getState	tizen.download.getState
	setListener	tizen.download.setListener
	onprogress	onprogress
	onpaused	onpaused
	oncanceled	oncanceled
	oncompleted	oncompleted
	onfailed	onfailed
Screen Mirroring	tizen.application.launchAppControl	tizen.application.launchAppControl
Sound Mirroring	tizen.application.launchAppControl	tizen.application.launchAppControl
Smarthub Apps	tizen.application.launchAppControl	tizen.application.launchAppControl
TVInfo	webapis.tvinfo.getMenuValue	webapis.tvinfo.getMenuValue
	webapis.tvinfo.setMenuValue	webapis.tvinfo.setMenuValue
	webapis.tvinfo.showCaption	webapis.tvinfo.showCaption

Download API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/remotepower-api.html>

Launch Application API <https://developer.samsung.com/smarttv/develop/api-references/tizen-web-device-api-references/application-api.html>

TVInfo API <https://developer.samsung.com/smarttv/develop/devices/b2btv/rtp-udp-streaming.html#Closed-Captions-for-UDP-Streaming>

Network & Widget Data

Web APIS Script

Feature Name	API Name	Tizen 6.5
Network	webapis.network.isConnectedToGateway	webapis.network.isConnectedToGateway
	webapis.network.getIpMode	webapis.network.getIpMode
	webapis.network.getSubnetMask	webapis.network.getSubnetMask
	webapis.network.getGateway	webapis.network.getGateway
	webapis.network.getMac	webapis.network.getMac
	webapis.network.getDns	webapis.network.getDns
	webapis.network.getIp	webapis.network.getIp
	webapis.network.getTVName	webapis.network.getTVName
	webapis.network.getActiveConnectionType	webapis.network.getActiveConnectionType
	webapis.network.addNetworkStateChangeListener	webapis.network.addNetworkStateChangeListener
	webapis.network.removeNetworkStateChangeListener	webapis.network.removeNetworkStateChangeListener
	webapis.network.getWiFissid	webapis.network.getWiFissid
	webapis.network.getWiFiSignalStrengthLevel	webapis.network.getWiFiSignalStrengthLevel
	webapis.network.getWiFiEncryptionType	webapis.network.getWiFiEncryptionType
WidgetData	onchange	onchange
	webapis.widgetdata.read	webapis.widgetdata.read
	webapis.widgetdata.remove	webapis.widgetdata.remove
	webapis.widgetdata.write	webapis.widgetdata.write

Network API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/network-api.html>
 WidgetData API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/widgetdata-api.html#2.-Full-WebIDL>

Tizen Samsung Product API - Privileges

Privilege	Level	Related API
http://developer.samsung.com/privilege/allshare	Public	ASFService API
http://developer.samsung.com/privilege/billing		Billing API
http://developer.samsung.com/privilege/broadcast	Partner	Broadcast API
http://developer.samsung.com/privilege/drmplay	Public	setDrm() method of the AVPlay API setDrm() method of the AVPlayExtension API
http://developer.samsung.com/privilege/microphone		Microphone API
http://developer.samsung.com/privilege/network.public		Network API
http://developer.samsung.com/privilege/productinfo		ProductInfo API
http://developer.samsung.com/privilege/sso.partner		SSO API
http://developer.samsung.com/privilege/streamingtvplayer	Partner	open() method of the AVPlayExtension API
http://developer.samsung.com/privilege/systemcontrol		RemotePower API SystemControl API
http://developer.samsung.com/privilege/widgetdata	Public	WidgetData API

AVPLAY & AVPlay Extension API



▶ AVPlay Webapis Script

```
<script type="text/javascript" src="$WEBAPIS/webapis/webapis.js"></script>
```

AVPlay Extension API

The module defines the functionalities of the player that are exposed and which could be easily used by an application or widget developer to support multimedia (**RTP/UDP**) playback for audio or video that are provided by the Tizen Samsung Product API.

AVPlay Extension API Script

```
<script type="text/javascript" src="$WEBAPIS/avplayextension/avplayextension.js"></script>
```

Privilege

```
<tizen:privilege name="http://developer.samsung.com/privilege/streamingtvplayer"/>
```



- Part 1

Feature Name	API Name	Tizen 6.5
AVPlay	onsubtitlechange	onsubtitlechange
	ondrmevent	ondrmevent
	onerror	onerror
	onevent	onevent
	onstreamcompleted	onstreamcompleted
	oncurrentplaytime	oncurrentplaytime
	onbufferingprogress	onbufferingprogress
	onbufferingstart	onbufferingstart
	onbufferingcomplete	onbufferingcomplete
	restore	webapis.avplay.restore
	setDisplayRotation	webapis.avplay.setDisplayRotation
	suspend	webapis.avplay.suspend
	getStreamingProperty	webapis.avplay.getStreamingProperty
	getTotalTrackInfo	webapis.avplay.getTotalTrackInfo
	getCurrentStreamInfo	webapis.avplay.getCurrentStreamInfo
	setSelectTrack	webapis.avplay.setSelectTrack
	setDisplayMethod	webapis.avplay.setDisplayMethod
	setSubtitlePosition	webapis.avplay.setSubtitlePosition
setExternalSubtitlePath	webapis.avplay.setExternalSubtitlePath	

AVPlay API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/avplay-api.html>

AVPLAY



- Part 2

Feature Name	API Name	Tizen 6.5
AVPlay	setStreamingProperty	webapis.avplay.setStreamingProperty
	setSoundAnalysisListener	webapis.avplay.setSoundAnalysisListener
	setDrm	webapis.avplay.setDRM
	setListener	webapis.avplay.setListener(listener);
	setSpeed	webapis.avplay.setSpeed
	getCurrentTime	webapis.avplay.getCurrentTime
	getDuration	webapis.avplay.getDuration
	jumpForward	webapis.avplay.jumpForward
	jumpBackward	webapis.avplay.jumpBackward
	setSilentSubtitle	webapis.avplay.setSilentSubtitle
	unsetSoundAnalysisListener	webapis.avplay.unsetSoundAnalysisListener
	getState	webapis.avplay.getState
	stop	webapis.avplay.stop
	seekTo	webapis.avplay.seekTo
	play	webapis.avplay.play
	pause	webapis.avplay.pause
	setDisplayRect	webapis.avplay.setDisplayRect
	prepareAsync	webapis.avplay.prepareAsync
	prepare	webapis.avplay.prepare
	close	webapis.avplay.close
open	webapis.avplay.open	

AVPlay API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/avplay-api.html>

System Info, System Control & Product Info



▶ Web APIS Script

Feature Name	API Name	Tizen 6.5
SystemInfo	webapis.systeminfo.isSupportedAudioCodec	webapis.systeminfo.isSupportedAudioCodec
	webapis.systeminfo.isSupportedVideoCodec	webapis.systeminfo.isSupportedVideoCodec
	tizen.systeminfo.getTotalMemory	tizen.systeminfo.getTotalMemory
	tizen.systeminfo.getAvailableMemory	tizen.systeminfo.getAvailableMemory
	tizen.systeminfo.getCapabilities	tizen.systeminfo.getCapabilities
SystemControl	webapis.b2bcontrol.rebootDevice	webapis.systemcontrol.rebootDevice
	webapis.b2bcontrol.getSerialNumber	webapis.systemcontrol.getSerialNumber
ProductInfo	webapis.productinfo.getFirmware	webapis.productinfo.getFirmware
	webapis.productinfo.getDuid	webapis.productinfo.getDuid
	webapis.productinfo.getModelCode	webapis.productinfo.getModelCode
	webapis.productinfo.getModel	webapis.productinfo.getModel
	webapis.productinfo.getSmartTVServerType	webapis.productinfo.getSmartTVServerType
	webapis.productinfo.isUdPanelSupported	webapis.productinfo.isUdPanelSupported
	webapis.productinfo.is8KPanelSupported	webapis.productinfo.is8KPanelSupported
	webapis.productinfo.getRealModel	webapis.productinfo.getRealModel
	webapis.productinfo.getLocalSet	webapis.productinfo.getLocalSet
	webapis.productinfo.getSystemConfig	webapis.productinfo.getSystemConfig
	webapis.productinfo.isUHDAModel	webapis.productinfo.isUHDAModel

- SystemInfo Webapis API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/systeminfo-api.html>
- SystemInfo Tizen API <https://developer.samsung.com/smarttv/develop/api-references/tizen-web-device-api-references/systeminfo-api.html>
- ProductInfo API <https://developer.samsung.com/smarttv/develop/api-references/samsung-product-api-references/productinfo-api.html>

Tizen Samsung Product API



To use security-sensitive APIs, you must declare the required privileges and sign your application with a certificate for the appropriate privilege level. You can add privileges to the "config.xml" file using the "Privileges" tab of the Configuration Editor in the Tizen Studio.

Privilege	Level	Related API
http://tizen.org/privilege/tv.audio	Public	TVAudioControl API
http://tizen.org/privilege/tv.display		TVDisplayControl API
http://tizen.org/privilege/tv.inputdevice		TVInputDevice API
http://tizen.org/privilege/tv.window		TVWindow API

WebRTC

WebRTC



- WebRTC is supported on Tizen 6.5 models
- Additional camera plugin is required



Supported Cameras

Logitech	Logitech HD Pro Webcam C920
	Logitech C922 Pro Stream Webcam
	Logitech C925E,
	Logitech HD Pro Webcam C920-C
	Logitech StreamCam
	Logitech HD Pro Webcam C920S
	Logitech C922X Pro Stream Webcam
	Logitech C930C
	Logitech C930e
Samsung	Samsung SlimFit Cam



WebRTC– APP Requirements



- Privileges:

```
<tizen:privilege  
name="http://developer.samsung.com/privilege/camera" />  
<tizen:privilege name="http://developer.samsung.com/privilege/microphone" />  
<tizen:privilege name="http://tizen.org/privilege/mediacapture" />
```

- Config.xml:

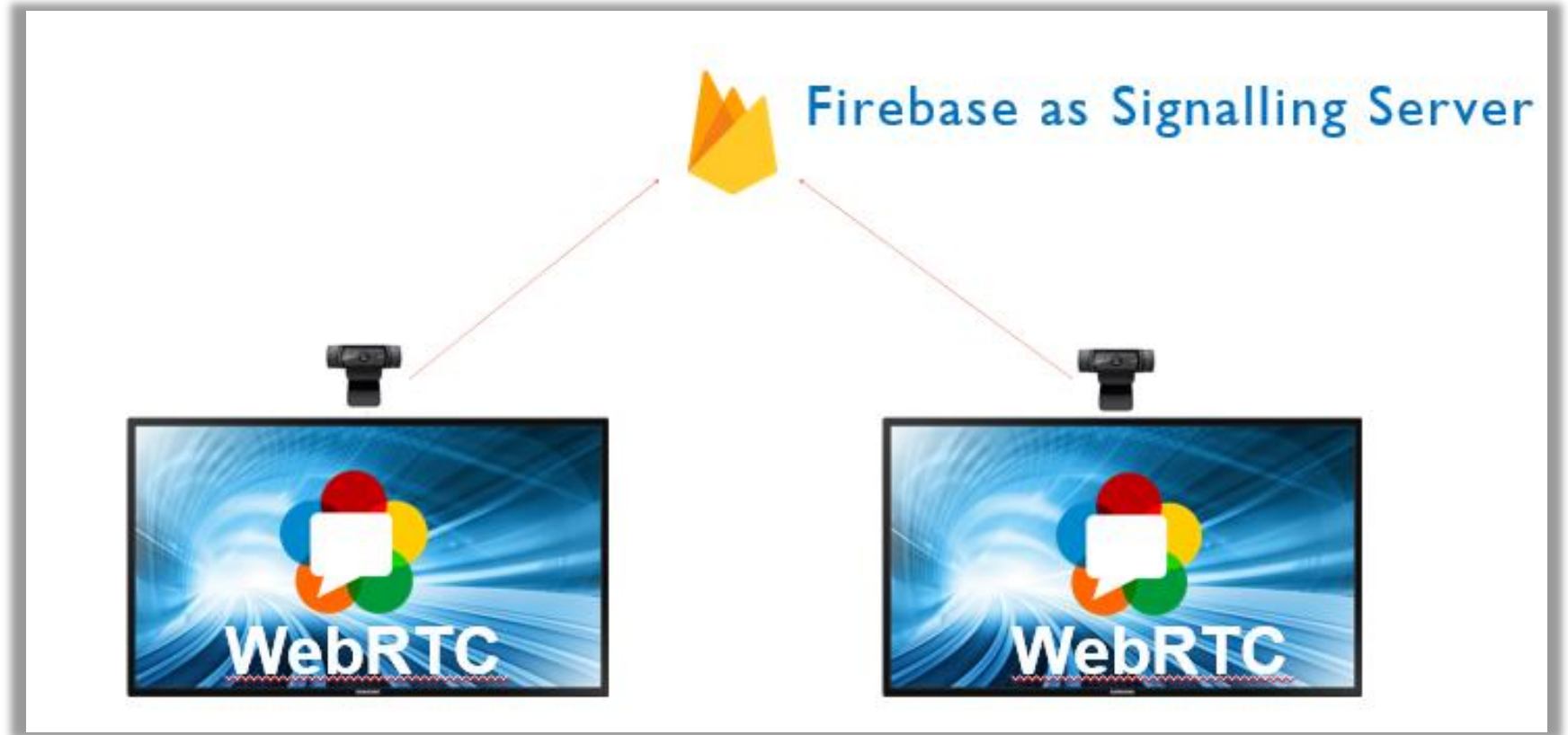
- required_version="6.5"

- Certificate:

- Samsung Partner Certificate with DUID from device in Distributor Certificate

STEP MIGRATION

WebRTC



WebRTC



```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <widget xmlns:tizen="http://tizen.org/ns/widgets" xmlns="http://www.w3.org/ns/widgets" id="http://yourdomain/webrtcTVDemo"
3   <access origin="*" subdomains="true"></access>
4   <tizen:application id="8sY1G8cRuD.webrtcTVDemo" package="8sY1G8cRuD" required_version="6.5"/>
5   <content src="index.html"/>
6   <feature name="http://tizen.org/feature/screen.size.normal.1080.1920"/>
7   <icon src="icon.png"/>
8   <tizen:metadata key="http://samsung.com/tv/metadata/prelaunch.support" value="true"/>
9   <tizen:metadata key="http://samsung.com/tv/metadata/camera.hardware.encoder.support" value="true"/>
10  <name>webrtcTVDemo</name>
11  <tizen:privilege name="http://tizen.org/privilege/internet"/>
12  <tizen:privilege name="http://developer.samsung.com/privilege/camera"/>
13  <tizen:privilege name="http://tizen.org/privilege/application.launch"/>
14  <tizen:privilege name="http://tizen.org/privilege/mediacapture"/>
15  <tizen:privilege name="http://tizen.org/privilege/filesystem.read"/>
16  <tizen:privilege name="http://tizen.org/privilege/filesystem.write"/>
17  <tizen:privilege name="http://tizen.org/privilege/camera"/>
18  <tizen:privilege name="http://tizen.org/privilege/audiorecorder"/>
19  <tizen:privilege name="http://tizen.org/privilege/mediastorage"/>
20  <tizen:privilege name="http://tizen.org/privilege/recorder"/>
21  <tizen:privilege name="http://tizen.org/privilege/download"/>
22  <tizen:privilege name="http://developer.samsung.com/privilege/widgetdata"/>
23  <tizen:privilege name="http://developer.samsung.com/privilege/network.public"/>
24  <tizen:privilege name="http://developer.samsung.com/privilege/privacy"/>
25  <tizen:privilege name="http://developer.samsung.com/privilege/microphone"/>
26  <tizen:profile name="tv-samsung"/>
27  <tizen:setting screen-orientation="landscape" context-menu="enable" background-support="disable" encryp
28 </widget>

```

```

Const Keys = {
  apiKey: "AIzaSyC-gRV_Or1e5RxSeiS20uQHRCuEf0WcTsk",
  authDomain: "dev-srt.firebaseio.com",
  projectId: "dev-srt",
  storageBucket: "dev-srt.appspot.com",
  messagingSenderId: "1085372328873",
  appId: "1:1085372328873:web:23dae840a0f304afdef2b8",
  measurementId: "G-JHDN784N2F"
};
app.initializeApp(Keys);
const Fire = app.firestore()
pc = new RTCPeerConnection({ iceServers: [{ urls:
["stun:stun1.l.google.com:19302",
"stun:stun2.l.google.com:19302"] }], iceCandidatePoolSize: 10
});

```



WebRTC local demo



1/2

Start WebRTC

Create Call

How Code

Test/Zoom/Video/2x

Hangup



IP Control Protocol

Device Control API



COMMAND / API	ACTION
rebootDevice / SystemControl	<ul style="list-style-type: none">Reboot the device (power off the device and restart).
powerOn	<ul style="list-style-type: none">Virtual Standby mode is activatedThe power state can operate and is changed to normal after a powerOn operation
powerOff	<ul style="list-style-type: none">Virtual Standby mode is activatedPower state is changed to Standby after a powerOff operation
setVolumeUp	<ul style="list-style-type: none">Increases the volume by 1 level
setVolumeDown	<ul style="list-style-type: none">Decreases the volume by 1 level

[SystemControl API | Samsung Developers](#)

[RemotePower API | Samsung Developers](#)

Device Control API



IP Control

- connection

HTTP over TLS(TLS v.1.2) is required for controlling TV

- communication method

JSON-RPC 2.0 format message exchanging

Client uses POST request with following information's in the header:

Content-Type: MUST be **application/json**

Content-Length: MUST contain the correct length according to the HTTP-specification

Accept: MUST be application/json

```
1  POST / HTTP/1.1
2  Host : 192.168.0.5:1516
3  Content-Type : application/json
4  Content-Length: ...
5  Accept: application/json
6  {
7  "jsonrpc" : "2.0",
8  "method" : "sum",
9  "params" : { "b" : 34, "c" : 56, "a" : 12},
10 "id": 123
11 }
12
```

Device Control API



- **AccessToken**
 - Secured device control message exchange using “AccessToken”
 - Issued after requesting
- **Device Discovery**
 - device discovery” feature using UPnP technology
- **Port Number**
 - 1516
- **Data Format**
 - MAX 200KB : HTTP body size including header.



Device Control API



Control	Action
POWER	Power On / Power Off / Reboot
VOLUME	Volume Up / Volume Down
MUTE	Mute Control
CHANNEL	Channel Up / Channel Down
SOURCE	Input source
PICTURE	Picture Control functions
SOUND	Sound Mode, Select speaker
STATUS	Get TV states, get Video states
REMOTE KEY	RemoteKey Control



Device Control API

SAMPLE CODE

POWER CONTROL

```

1 // --> : data sent to TV IPControl Server
2 // <-- : data sent to CI Client
3 // to get the power state
4 --> {"jsonrpc": "2.0", "method": "powerControl", "id": 1
5 }
6 <-- {"jsonrpc": "2.0", "result": {"power": "powerOn"
7 |   }, "id": 1
8 }
9 // to control power
10 --> {"jsonrpc": "2.0", "method": "powerControl", "params": {"power": "powerOff"
11 |   }, "id": 1
12 }
13 <-- {"jsonrpc": "2.0", "result": {"power": "powerOff"
14 |   }, "id": 1
15 }

```

VOLUME CONTROL

```

1 // --> : data sent to TV IPControl Server
2 // <-- : data sent to CI Client
3 // to get the volume value
4 --> {"jsonrpc": "2.0", "method": "directVolumeControl", "id": 1
5 }
6 <-- {"jsonrpc": "2.0", "result": {"volume": 10
7 |   }, "id": 1
8 }
9 // to set the volume value directly
10 --> {"jsonrpc": "2.0", "method": "directVolumeControl", "params": {"volume": 15
11 |   }, "id": 1
12 }
13 <-- {"jsonrpc": "2.0", "result": {"volume": 15
14 |   }, "id": 1
15 }
16 // to control volume up/down
17 --> {"jsonrpc": "2.0", "method": "volumeUpDnControl", "params": {"control": "volumeUp"
18 |   }, "id": 1
19 }
20 <-- {"jsonrpc": "2.0", "result": {"control": "volumeUp"
21 |   }, "id": 1
22 }

```

Device Control API



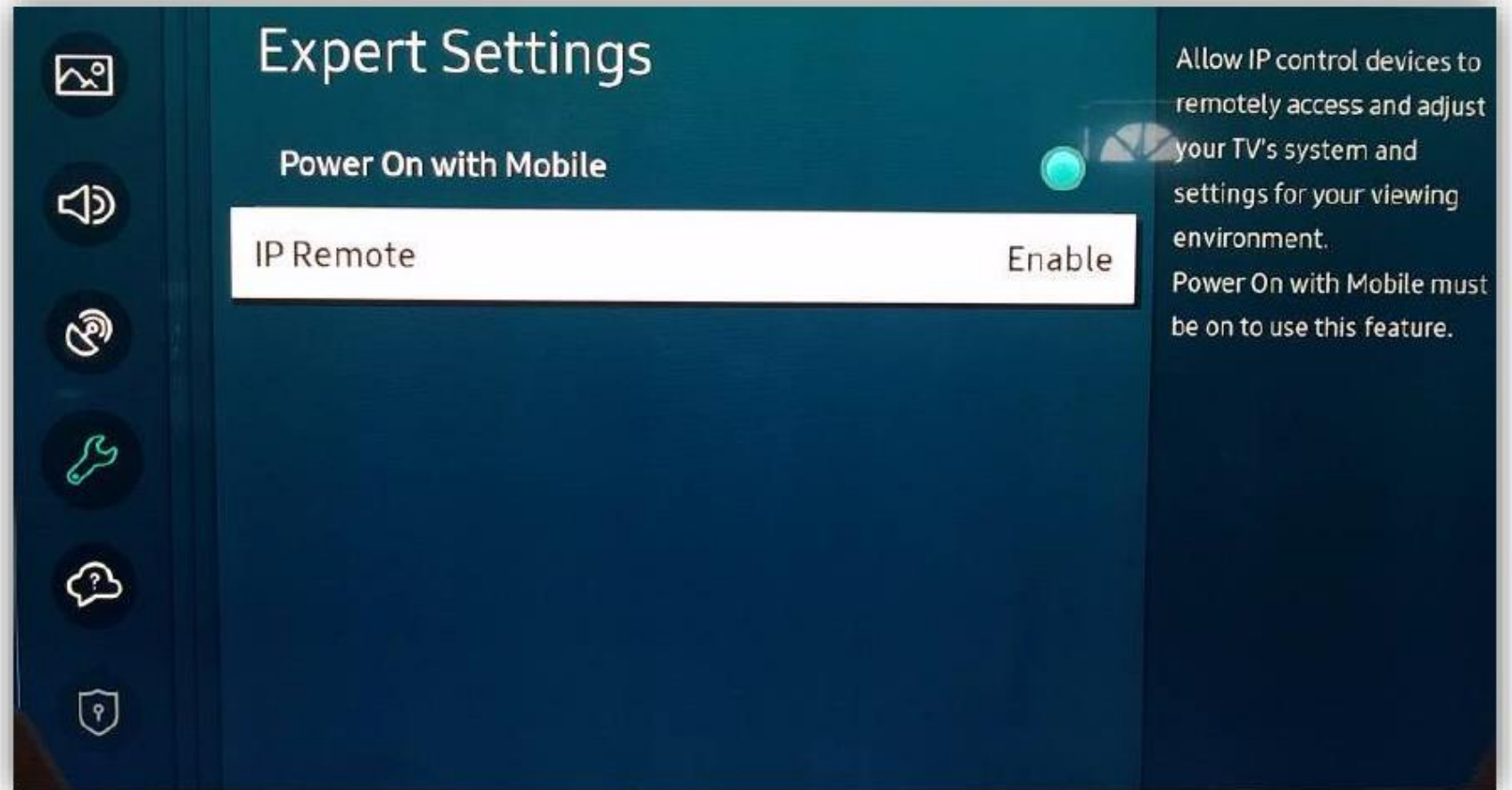
- **Server Error Code for JSON-RPC**
 - provides server error codes using below JSON-RPC error code

Error Code	Data	Meaning
-32000	Unknown	There's an unknown error on TV.
-32001	Not supported model	The executed control is not supported on current model.
-32002	Failed	The executed control is failed.
-32003	Invalid operation	The executed control has invalid data.
-32004	No support for batch request	Server does not support batch request.
-32010	Unauthorized access	Client is not authorized by server or user.



Device Control API

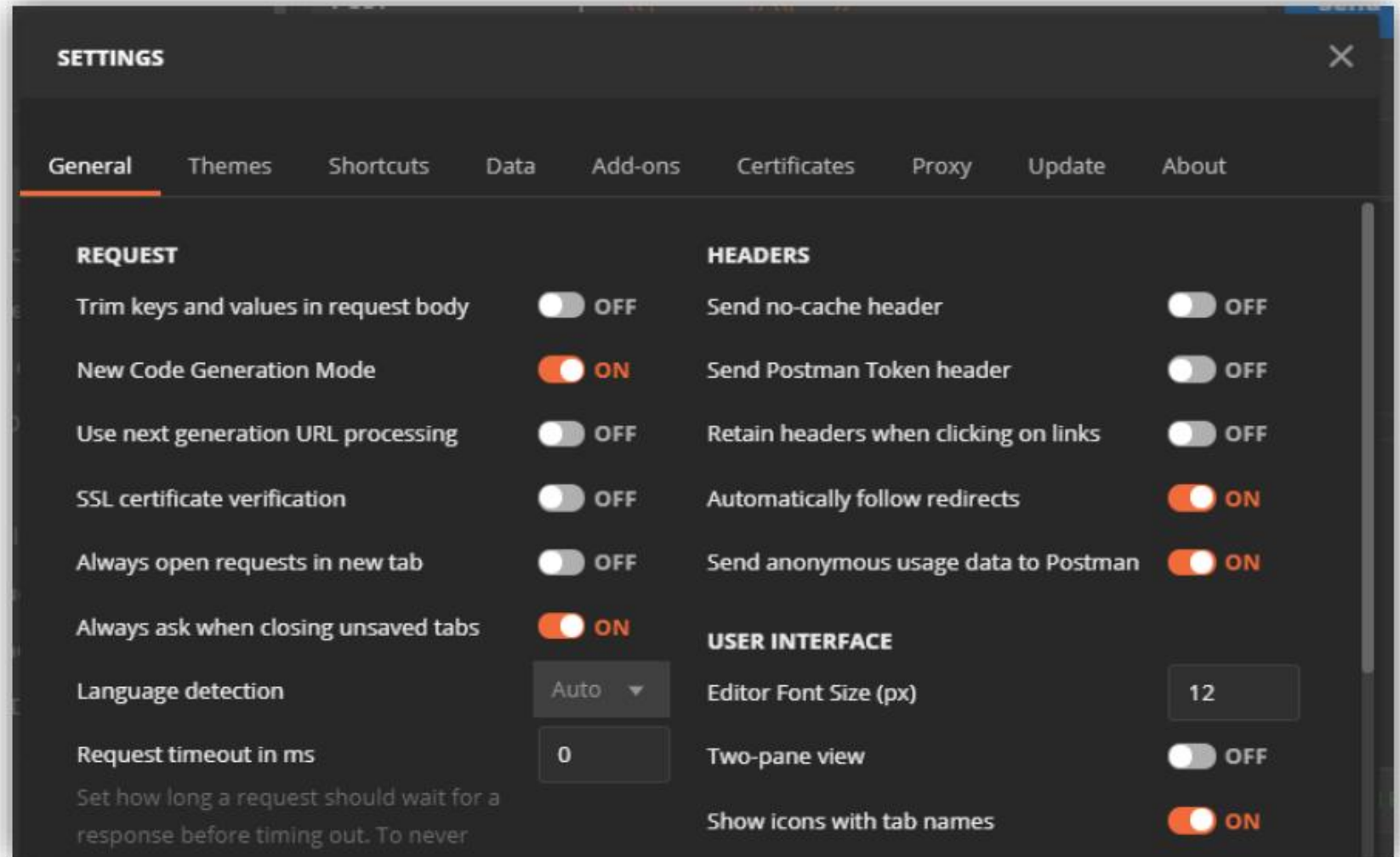
- Starting with the TV device setup, first we need to make sure that IP Control is enabled on our TV
- Go to Menu > General > Network > Expert Settings
- Here we will be able to turn on the IP Remote in our TV device.



Device Control API



- Go to File > Settings > General
- And disable the following options:
 - SSL certificate verification
 - Send no-cache header
 - Send postman token header



Device Control API



- Make sure is that each request has the correct headers.

The screenshot shows the Headers tab in Postman with 9 headers listed. The headers are:

	KEY	VALUE	DESCR	...	Bulk Edit	Presets
<input type="checkbox"/>	Content-Type ⓘ	application/json				
<input checked="" type="checkbox"/>	Content-Length ⓘ	<calculated when request is sent>				
<input checked="" type="checkbox"/>	Host ⓘ	<calculated when request is sent>				
<input type="checkbox"/>	User-Agent ⓘ	PostmanRuntime/7.25.0				
<input type="checkbox"/>	Accept ⓘ	*/*				
<input type="checkbox"/>	Accept-Encoding ⓘ	gzip, deflate, br				
<input type="checkbox"/>	Connection ⓘ	keep-alive				
<input checked="" type="checkbox"/>	Accept	application/json				
<input checked="" type="checkbox"/>	Content-Type	application/json				

New Import

POST Create Access Token

POST IP Control TV

No Environment

IP Control / Create Access Token

Save

Send

POST

https://192.168.170.116:1516

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

Cookies

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Beautify

```
1  {
2    "jsonrpc": "2.0",
3    "method": "createAccessToken",
4    "id": 1
5  }
6
7
```

Body

Cookies

Headers (3)

Test Results



200 OK

8.56 s

231 B

Save Response

Pretty

Raw

Preview

Visualize

JSON



Developer Mode

TEP MIGRATION

Developer Mode



Samsung Developers

SAMSUNG
AppSTV Seller Office

Tizen Business
Manager

Tizen 6.5



Project Explorer

BasicProject - tv-samsung-6.5

JavaScript Resources

BasicProject.wgt

css

images

js

config.xml

icon.png

index.html

PlayerAVPlay - tv-samsung-6.5

config.xml

index.html

html > body > #text

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1.0">
  <meta name="description" content="Tizen basic template generated by Tizen Web IDE">

  <title>Tizen Web IDE - Tizen - Samsung Tizen TV basic Application</title>

  <link rel="stylesheet" type="text/css" href="css/style.css"/>
  <script src="js/main.js"></script>
</head>

<body>
  <header>
    <hgroup>
      <h1>Tizen app</h1>
      <h2>A basic template of Samsung Tizen TV</h2>
    </hgroup>
  </header>

  <nav>
    <ul>
      <li><a href="#">Home</a></li>
      <li><a href="#">About Us</a></li>
      <li><a href="#">Contact Us</a></li>
    </ul>
  </nav>

  <article>
    <header>
      <h1>
         Application Name
      </h1>
    </header>
  </article>
</body>
</html>
```

STEP MIGRATION

Developer Mode



Adobe Acrobat
Document



Thank You!
