

Korean Future Broadcast and Media Standards Forum(FBMF)



2018.10.22

W3C Media & Entertainment IG

Youngsun Ryu(ysryu@samsung.com)

FBMF Introduction

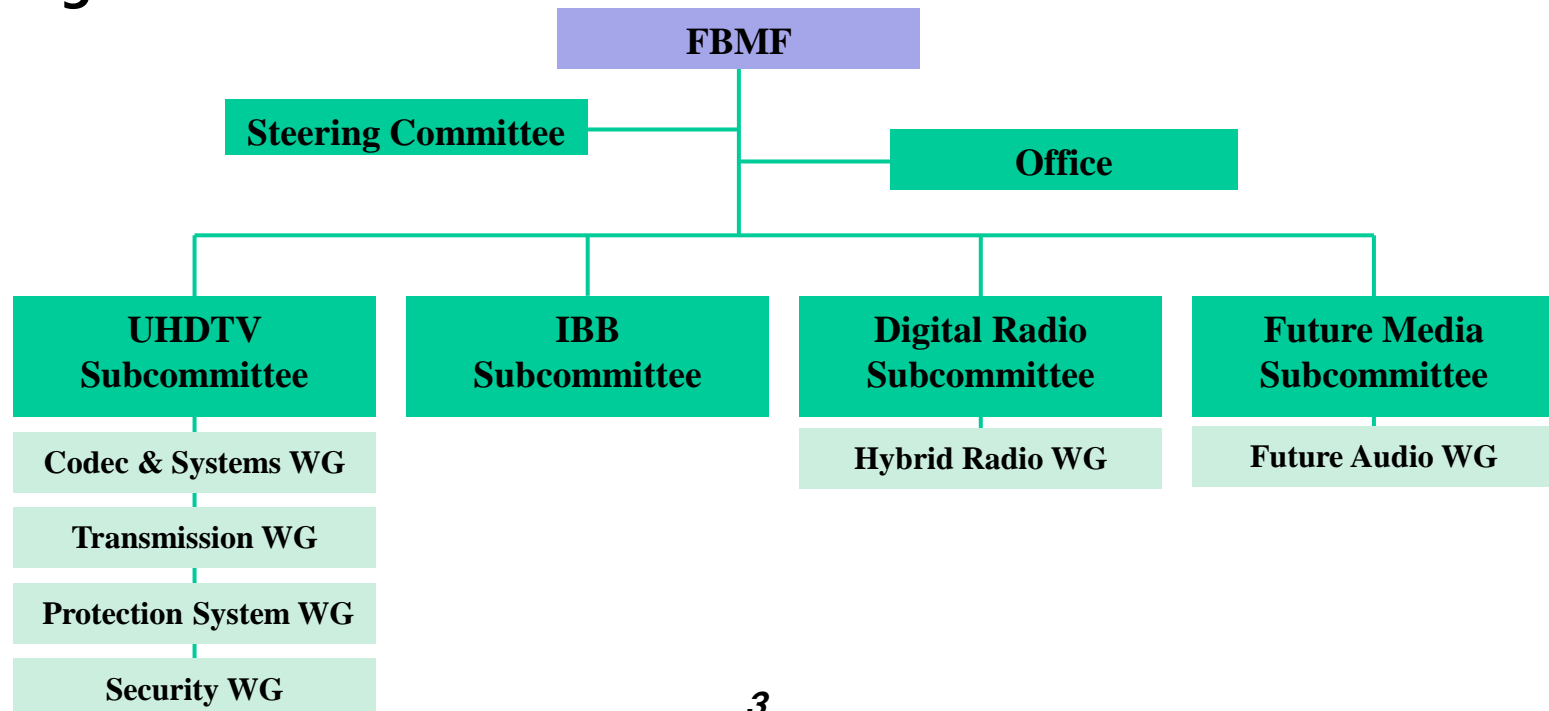
- ❖ **Future Broadcast and Media Standards Forum(former Next Generation Broadcast Standards Forum i.e. NGBF)**
 - ❖ **Mission**
 - ❖ Developing the Future broadcast and media service specification
 - ❖ Research & Propagating the Future broadcast and media service
 - ❖ Cooperate with government and overseas SDOs
 - ❖ **Specifications**
 - ❖ Transmission and Reception for Terrestrial UHD TV Broadcasting Service
 - ❖ Standard for Terrestrial UHD Integrated Broadcast Broadband(IBB) Service
 - ❖ UHD TV/FTV Broadcasting
 - ❖ UHD TV/FTV Video/Audio
 - ❖ Immersive Media
 - ❖ Radio/Mobile Broadcasting Service

FBMF Organization

❖ Forum members

- ❖ Broadcasters: KBS, MBC, SBS, EBS
- ❖ Industries: Samsung, LGE, Alticast, DigiCAP, KaiMedia, etc
- ❖ Institutes & Universities: ETRI, KETI, TTA, SNU, KAIST, etc

❖ Organization



IBB Service Standards

- ❖ **IBB(Integrated Broadcast Broadband) Service**
 - ❖ Provides domestic terrestrial UHD TV viewers various interactive content services while watching TV
 - ❖ Defines method of providing interactive service application based on web through the broadcast and/or broadband network while watching UHD broadcasting, also defines method of providing companion screen service connecting TV and personal smart devices
 - ❖ Refers to 'ATSC3.0' and 'HbbTV2.0'



IBB Service Standards

- ❖ **UHD IBB Service Specification consists of**
 - ❖ **Part1. Common Technology**
 - ❖ **Part2. Application Signaling**
 - ❖ **Part3. Browser Application Environment**
 - ❖ **Part4. Companion Screen Service**
 - ❖ **Part5. Service Guide**
 - ❖ **Part6. ACR**
- ❖ **Browser Profile(Part3) based on HbbTV2.0 with extensions**

Markup	HTML5, HTML5 2D Canvas
Style	CSS2.1
Text and Fonts	Web Open Font Format, CSS Font
Graphics	CSS Color Module Level3, CSS Image Values and Replaced Content, CSS Background and Borders, CSS Transforms, CSS Transitions, CSS Animations
Device Adaptation, Layout	CSS Selectors Level3, CSS Media Queries, CSS Multi-column, CSS Flexible Box, CSS conditional Rules Module Level3
Scripting	ECMAScript262 5.1
Events	DOM3 Event
Applications APIs	XMLHttpRequest, Web Messaging API, Web Socket API, Web Workers API, Server-sent Events, Web Storage API
Extensions	Geolocation, MSE, EME, Network Information API

IBB Service

❖ Pyeongchang Olympic games 2018



<p>쇼트트랙 금빛질주 기대... 하지만 훈련이 시작되기 무섭게 속도로 차고 나갑니다. 월드컵</p>	<p>'빙상솔림' 한국 올림픽 메달 지형도가 바뀐다 비드스케이팅에서는 역시 '단거리 여제' 이상혜가 있다. 2017년</p>	<p>SKI JUMPING KBS</p>	<p>FIGURE SKATING SBS</p>	<p>SKI MBC</p>
<p>SNOW-BOARDING KBS</p>	<p>BOBSLEIGH SBS</p>	<p>CURLING MBC</p>		

SBS LIVE

Olympic games 08:30pm

넘어지는 러시아 선수
2018 평창 동계올림픽 여자500m 쇼트트랙 경기 중 러시아의 국가대표

봅슬레이 금메달 획득
평창 동계올림픽에서 국내 봅슬레이 국가대표 선수 최희호도 금메달 획득에 성공했다.

여자 컬링, 변수는?
모든 케이팝스타6 1차예선을 통과하여 2차부 스메이션을 노리는 박성민이다. 2차에 노려

쇼트트랙 금빛질주 기대...
하지만 훈련이 시작되기 무섭게 속도로 차고 나갑니다. 월드컵 10개 대회에서 금메달

평창 올림픽 총계 및 대한민국...
2018 평창 동계올림픽에서 대한민국이 활이 어떤 성과를. 지난 18일 오후 04:00

가파른 성장세' 봅슬레이·스켈
모든 케이팝스타6 1차예선을 통과하여 2차부 스메이션을 노리는 박성민이다. 2차에

SBS Olympic

SKI JUMPING KBS	FIGURE SKATING SBS	BOBSLEIGH MBC	SKI KBS	CURLING SBS	SNOWBOARDING MBC
--------------------	-----------------------	------------------	------------	----------------	---------------------