Korean Future Broadcast and Media Standards Forum(FBMF)

FBMF
미래방송미디어표준포럼
Future Broadcast and Media Standards Forum

2018.10.22

W3C Media & Entertainment IG
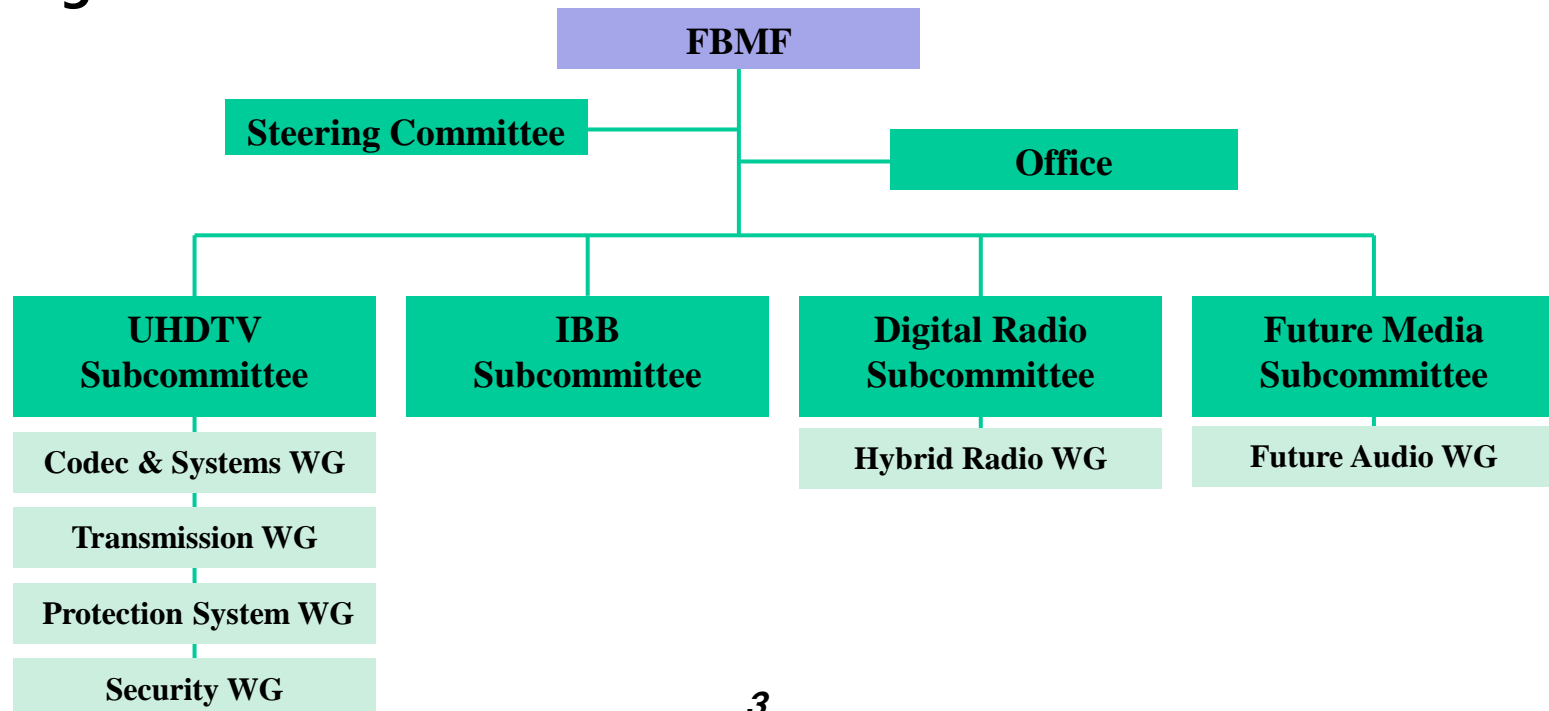
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FBMF Introduction

❖ **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 UHDTV Broadcasting Service**

    ❖ **Standard for Terrestrial UHD Integrated Broadcast Broadband(IBB) Service**

    ❖ **UHDTV/FTV Broadcasting**

    ❖ **UHDTV/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**

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                        │     FBMF     │
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        │  Steering Committee  │    │    │    Office    │
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│  UHDTV   │ │   IBB    │ │  Digital   │ │Future Media │
│Subcommit.│ │Subcommit.│ │   Radio    │ │Subcommittee │
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UHDTV Subcommittee	IBB Subcommittee	Digital Radio Subcommittee	Future Media Subcommittee
Codec & Systems WG		Hybrid Radio WG	Future Audio WG
Transmission WG			
Protection System WG			
Security WG			

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'**

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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**