

# HbbTV at the Heart of Broadcast Transformation in Europe







16th EUROPEAN DIGITAL FORUM, June 6th, 2019, Lucca

Angelo Pettazzi – Chairman of HbbTV MEWG

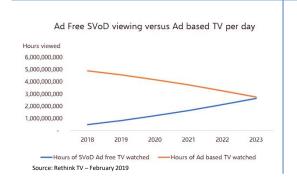
### Broadcast TV faces many tough challenges

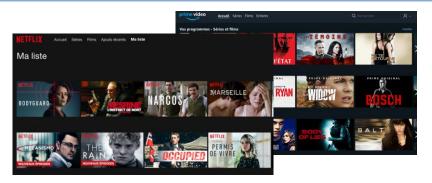


- Consumer appetite for on demand viewing
- Aggressive and talented new OTT players with compelling CONTENT...
- ... and sophisticated modern user experience (CONTEXT)
- Data driven marketing and digital advertising
- Operator / IPTV intermediation
- Blurring Free / Pay segmentation











## Broadcasters are not the "born losers" of this change ...



#### Broadcasters need to transform and adapt to this new world!

- Mix linear with non linear in an OTT style
- Leverage the **power of linear**
- Leverage DATA
- Introduce addressable advertising
- Aggregation, gather together to leverage synergies
- **UX**, end-user coaching, relationships
- Branding, educating the market on new TV proposals

#### These changes are enabled with HbbTV technologies!

### And this is happening ...











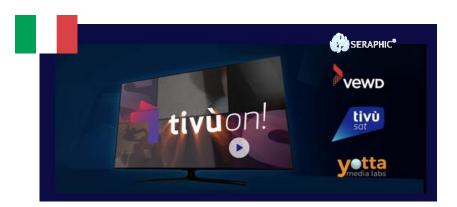




HbbTV provides the technology foundation of these platforms

## **OpApp First Commercial Deployments**







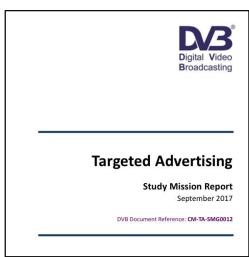




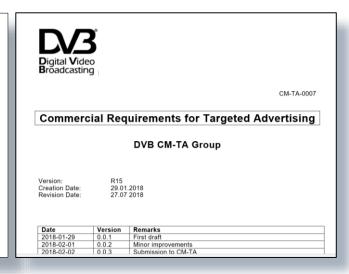
Panasonic deploys HbbTV OpApp for HD+ access in Germany Announced in March this year

#### DVB started to work on Targeted Advertising on 2017 ...









... and the TA specs will be ready after this summer

#### HbbTV Take Away ...



- End user want new / enriched services on their TV set
- Broadcasters want to serve these needs (and not let open road to rival OTTs pureplays or leave new advertising formats to dominant global players)
- HbbTV is the friendly "TV OS" for them to do so, leveraging their unique broadcast presence and reach
- This is a dynamic moment for HbbTV:
  - High level of market attention
  - Exciting new features, like TA and OpApp
  - Increased appetite for HbbTV deployments and adoption to accelerate market transformation
  - New members! +10% in less than a year
- And also some challenges: keep up with high market expectations

## Thank you - Join us in Athens!



#### 8<sup>th</sup> HbbTV Symposium and Awards - Athens November 21-22, 2019





In collaboration with:





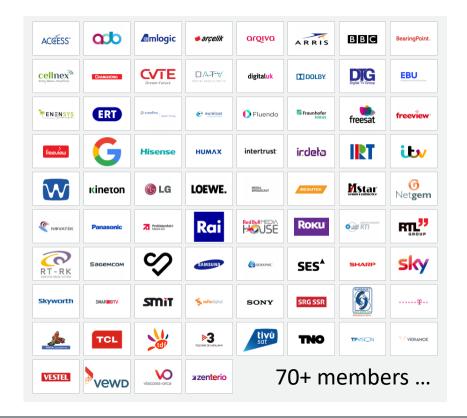


## Back up

#### The Mission of HbbTV

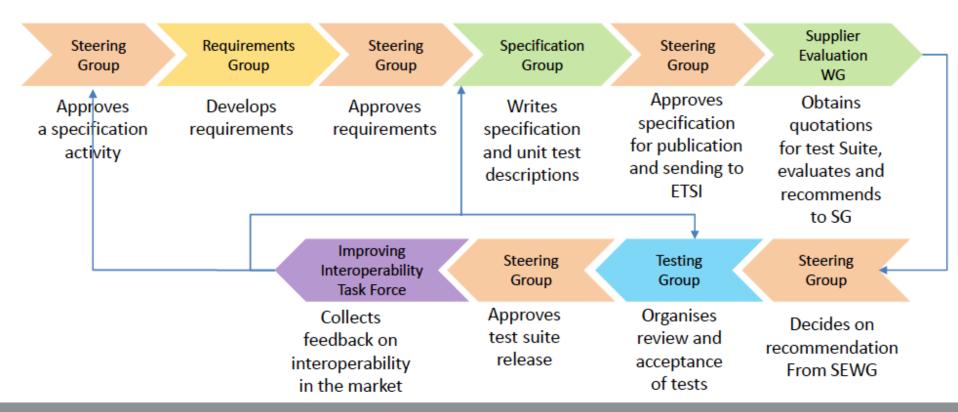


To develop and promote open specifications and solutions for hybrid broadcast/broadband and IPTV television systems, with the ultimate public interest objective to allow harmonization of broadcast and broadband delivered entertainment services and consumer equipment



### The HbbTV Workflow





## **HbbTV Specifications**



**HbbTV 1.0** 

**HbbTV 1.5** 

**HbbTV 2.0** 

**HbbTV 2.0.1** 







Microsoft PlayReady®

































12

## Test Suite v.2019-1 (April 19)





Test suite v2019-1 release proposal

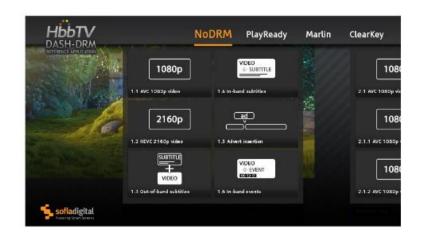
- First release covering HbbTV
  2.0.2 ( UHD, NGA)
- Also covers OpApp (parts)

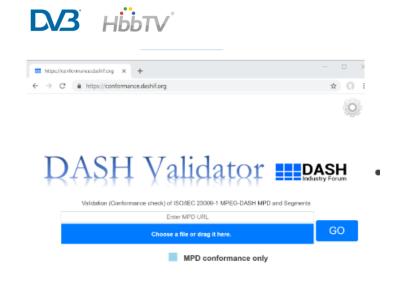
Name	
v8.0	
v8.1	
v8.5	
v9.0	
v9.1	
v9.2	
v9.2.1	
v2018-1	
v2018-2	
v2018-3	
v2019-1	

Total size	Total size with Nordig & OIPF B	Date
966	966	31.07.2015
965	965	11.02.2016
1548	1548	31.08.2016
1521	1715	31.10.2016
1538	1791	16.01.2017
1908	2102	20.07.2017
1916	2110	17.11.2017
1924	2118	23.03.2018
1952	2146	04.07.2018
1951	2146	11.11.2018
2079	2274	15.03.2019

# Reference Apps

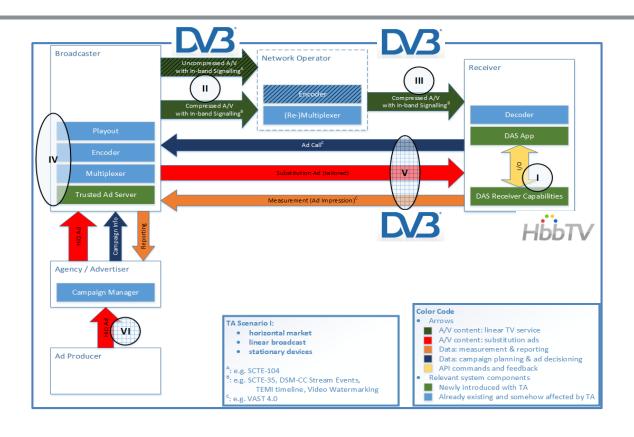






#### HbbTV & DVB: Who does what?





#### The future HbbTV-TA specification



- Independent specification
- Published summer 19 (?)
- In devices: 2020 (?)

#### **Key features**

- "better" pre-load of ad in RAM
- Play AV content from RAM (MSE)
- Fast Media Switch API
- Reporting
- Encryption authentication
- MSE integration

