

## Workshop on "Harmonization on Web and IPTV technologies"

# IPTV audience measurement standardization for future IPTV

Rev.1

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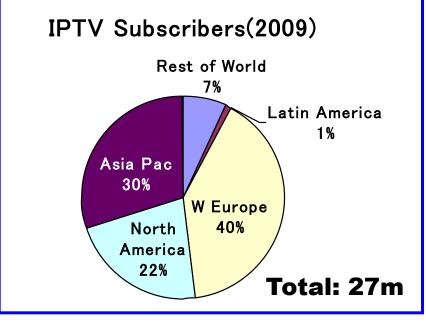
## Contents

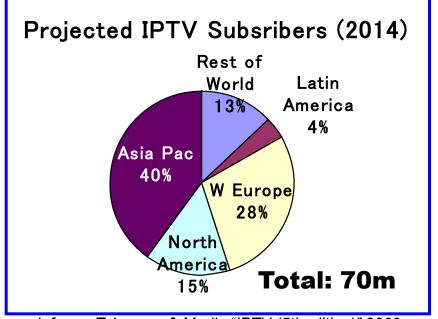
- IPTV market overview
- IPTV stake holders and IPTV audience measurement (AM)
- IPTV AM standard
  - Position of IPTV AM standard
  - Current standardization activities in IPTV-GSI
  - Architecture and so on
- Conclusion



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- IPTV has emerged as a hot topic within the global digital entertainment and telecommunications industries.
- Broadband and video compression technologies have matured to the point where it is now feasible to offer competitive and compelling IPTV services.
  - The ratio of Latin America and Asia Pacific will be increasing.





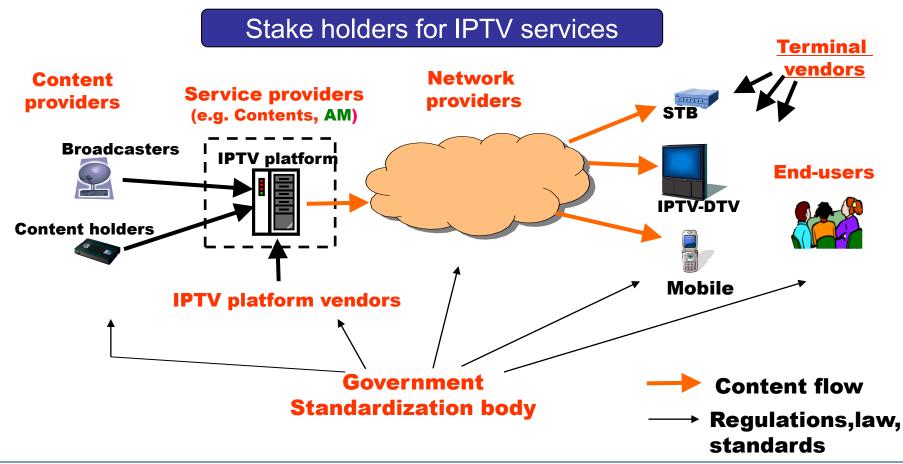
\*Source: Informa Telecoms & Media "IPTV (5thedition)" 2009

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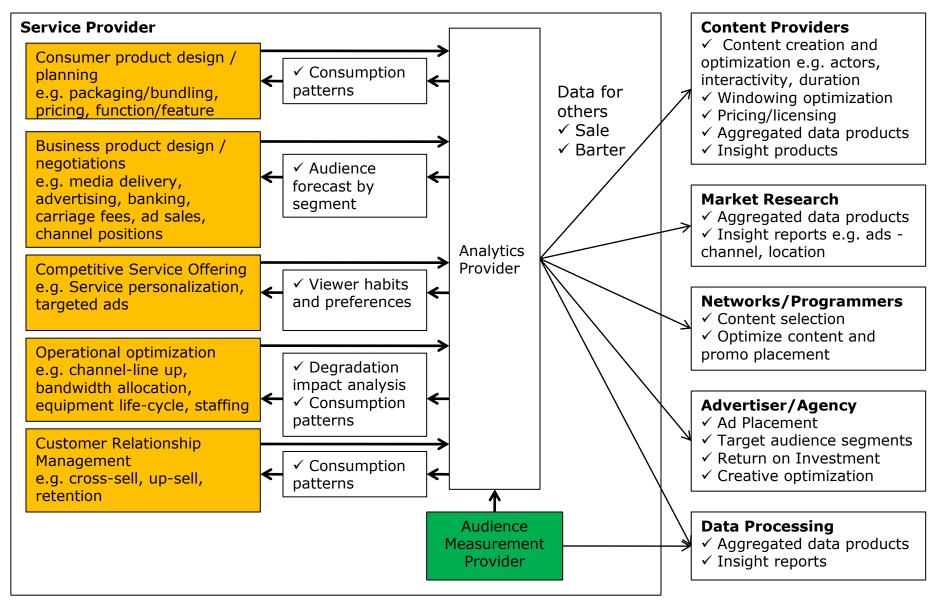
## **Current IPTV stake holders**

- In order to provide IPTV service, not only IPTV service providers but also lots of other stake holders are concerning with IPTV services.
- Those stake holders are restricted by regulations, laws, and standards.
- Several stake holders are interested in audience measurement (AM).



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## The Values of Audience Measurement to stake holders



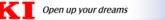
#### IPTV-GSI Geneva, 16-20 May 2011

\*Source: Introduction to ITU-T Audience Measurement (AM), ITU-T,2011

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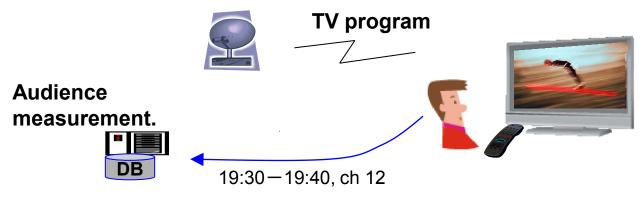
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## What is audience measurement

## **■**audience measurement definition

- Measuring how many people are in an audience, usually in relation to television viewership and radio listenership, but also newspaper and magazine readership, and increasingly, usage of websites and IPTV service.
- It often also includes demographic information (ex. age, gender) and sometimes psychographic information(ex. personality, values, attitude, interests, lifestyles) or IAO variables (for Interests, Activities, and Opinions), to help broadcasters and advertisers determine how segments of the audience are engaging with the content, rather than just how many.
- To realize audience measurement, privacy information must be protected perfectly.

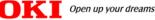




## **IPTV AM standards**

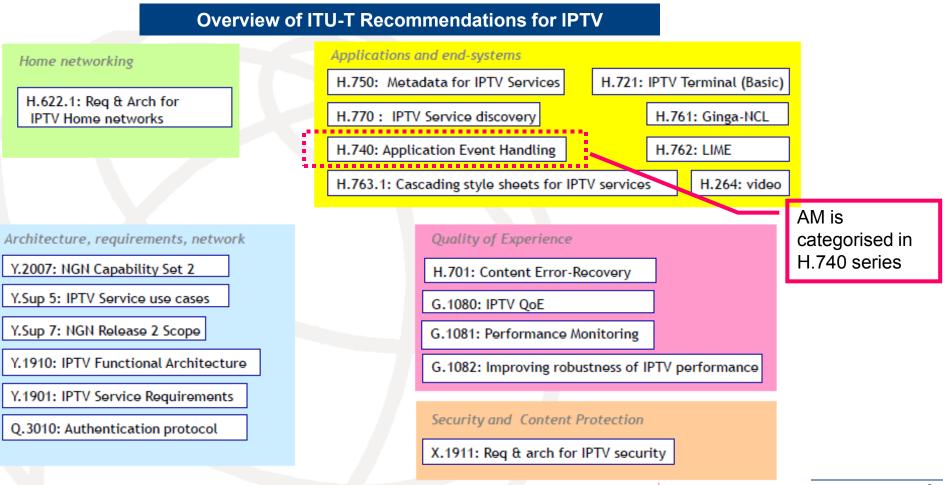
- Position of IPTV AM
- Current standardization activities in IPTV-GSI
- Architecture, privacy and so on.

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## Standardization activity: IPTV Audience Measurement

- "Audience measurement in IPTV" is categorized in "Application and End System" (discussed in Q13/16)
- Several countries, including China, Korea, Japan, Canada, Singapore and USA, are now interested in this area for the future service in ITU-T.





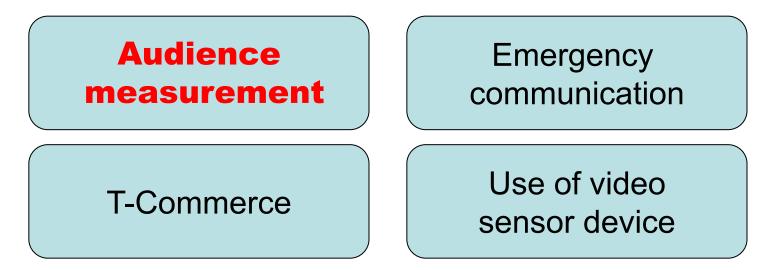
## Application event handling and audience Measurement

"IPTV application event handling (H.740)" defines higher level concepts of application event handling.



Excerpts from ITU-T H.740

H.740.amd.1 includes several scenario including audience measurement in IPTV(AM)





- "IPTV application event handling:audience measurement series (H.IPTV-AM.0,1,and2)" describes the requirements, functions supported by the IPTV terminal devices, HGW and so on.
- These will be useful for new IPTV service related with audience information.

H.740.amd.1 Application event handling

H.IPTV-AM.0 Audience measurement overview (H.74?)

H.IPTV-AM.1 AM for distributed content service (H.74?)

H.IPTV-AM.2 AM for interactive service (H.74?)

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The target services of AM standardization include not only distributed content service but also interactive services of IPTV.

#### H.IPTV-AM.1

Distributed content services

Broadcast services

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- On-demand services
- Advertising services
- Time-shifting and placeshifting services
- Supplementary content

#### H.IPTV-AM.2

## Interactive services

- Information services
- Commerce services
- Entertainment services
- Learning services
- Medicine services
- Monitoring services
- Portal services
- Interactive advertising



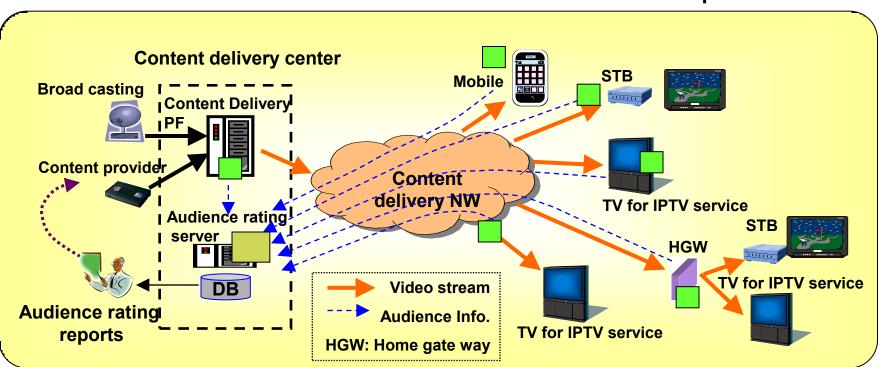


Excerpts from ITU-T Y.Sup5



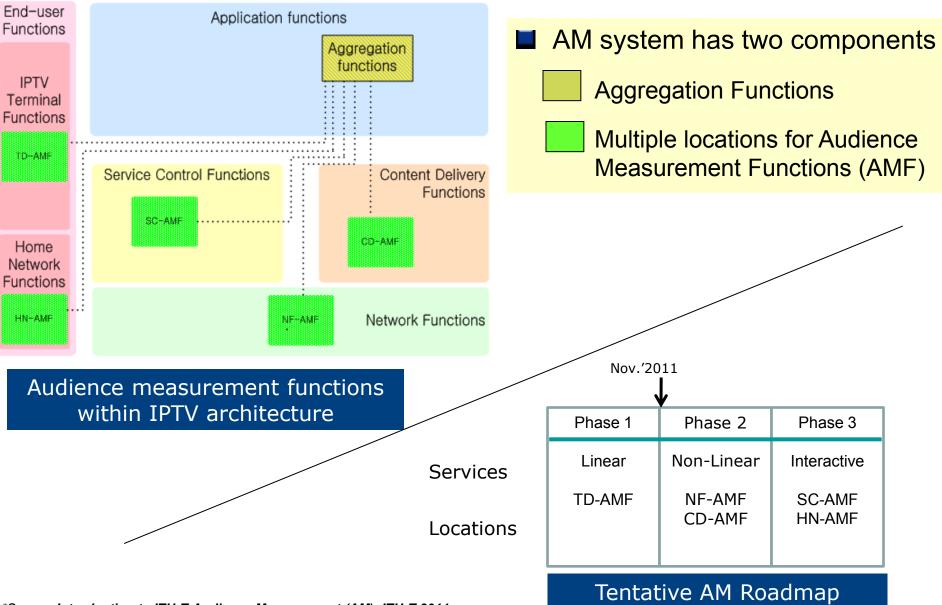
## **IPTV** audience measurement function location

IPTV audience measurement function can be installed in several points, such as terminals, HGW(homegateway)s, routers, and content delivery platforms.



Excerpts from ITU-T H.740

## Architecture and Roadmap



\*Source: Introduction to ITU-T Audience Measurement (AM), ITU-T,2011

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## Privacy Model for AM in IPTV

	Level 0 (default)	Level 1	Level 2	Level 3
User info permitt ed with for AM	None	Distinguishab le user, no user information	Distinguishable user, and anonymous user information	Distinguishable user, anonymous user information, and identifiable subscriber or user information
Exampl e data	No Measure ment	Channel 5 was watched by anonymous user #12683304 on mobile device type "X"	Channel 5 was watched by anonymous <u>male</u> user #12683304 on mobile device type "X"	Channel 5 was watched on mobile device type "X" being used by <u>subscriber or</u> <u>user "John Smith"</u> with email js@sp.net

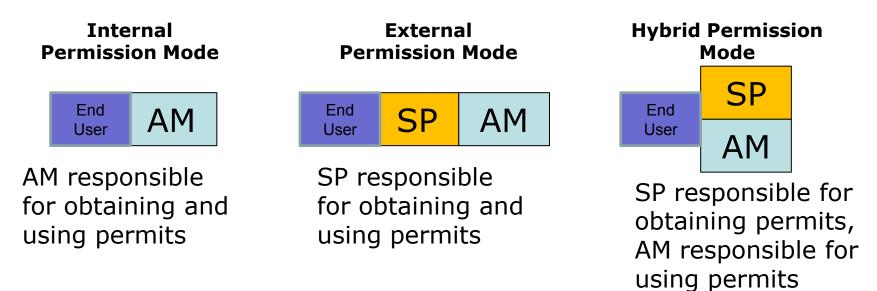
\*Source: Introduction to ITU-T Audience Measurement (AM), ITU-T,2011

## **Permission Modes**

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- User's policies are declared in a "permit" which includes a permission level
- Permits may also specify providers, services, devices and/or content classes

### **Permission Mode set during discovery**



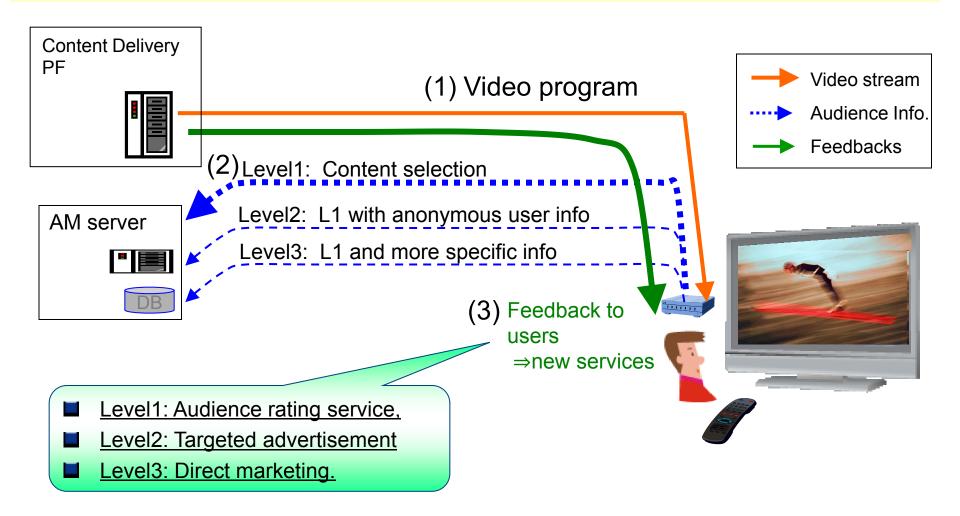
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\*Source: Introduction to ITU-T Audience Measurement (AM), ITU-T,2011



## Three level profiling for IPTV AM and the derived services

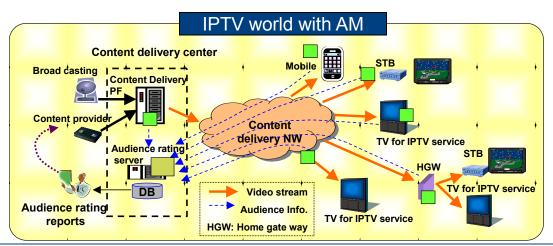
By using of higher level of AM, end-users can get more useful services, but private information will be taken more carefully.





## Conclusion

- IPTV service subscribers are increasing in the world.
- Several stake holders are interested in IPTV audience measurement(AM).
- IPTV AM are very hot topic in ITU-T IPTV-GSI.
- Several draft recommendations on AM are under discussion in Q13/16 in ITU-T IPTV-GSI and will be consent soon.
- These will bring you to the new IPTV services.



## Thank you for your attention

