IPTV Standardisation

Rémi Houdaille / Ralf Schaefer
Thomson Corporate Research

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Thomson is the world leading provider of solutions for the creation, management, delivery and access of video, for the Communication, Media and Entertainment industries.

Our clients are studios, broadcasters, network operators (telcos, broadband, satellite and cable operators) and an increasing range of professional users of videos.

We deliver superior value to our customers through a unique combination of industry-leading technologies, systems and services, enabling us to offer differentiated end-to-end solutions based on a broad portfolio of intellectual property.

At the cross-roads of the CME industries, leveraging our core competencies in video but also audio, data and voice, we enable our customers to take advantage of the growth opportunities brought on by the digital convergence revolution.

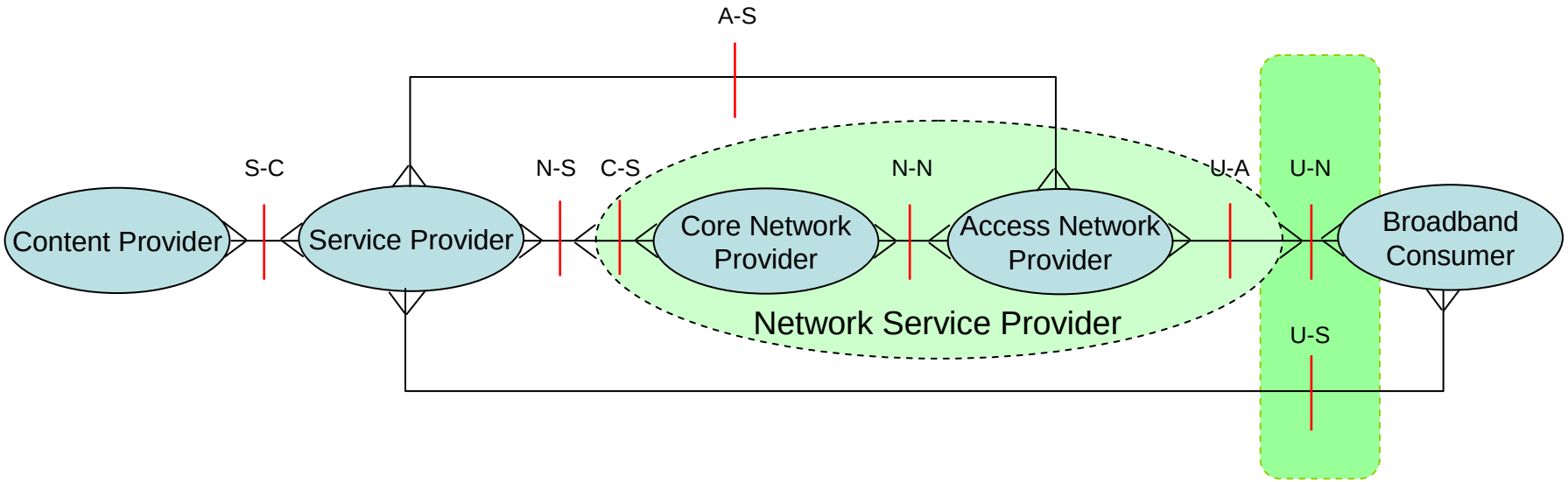
Why and what should be standardized ?

- **Why standardize IPTV**
  - Achieve interoperability
  - Give confidence for investment
  - Avoid confusion in the market
  - Lower costs for everybody

- **What should be standardized**
  - Layers in the STB, e.g. network attachment, transport, control, management, metadata…
  - Inter-working in Home Network and with Home Gateway
  - Parts of security, e.g. scrambling algorithms
  - Parts of the End-to-end system, e.g. QoS

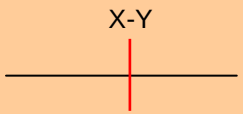
- **However: Leave sufficient space for differentiation, according to market requirements**

IPTV Reference Model (from DVB-IPTV)

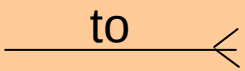


Functional roles should not be confused with business roles which may comprise several functional roles

Key:-



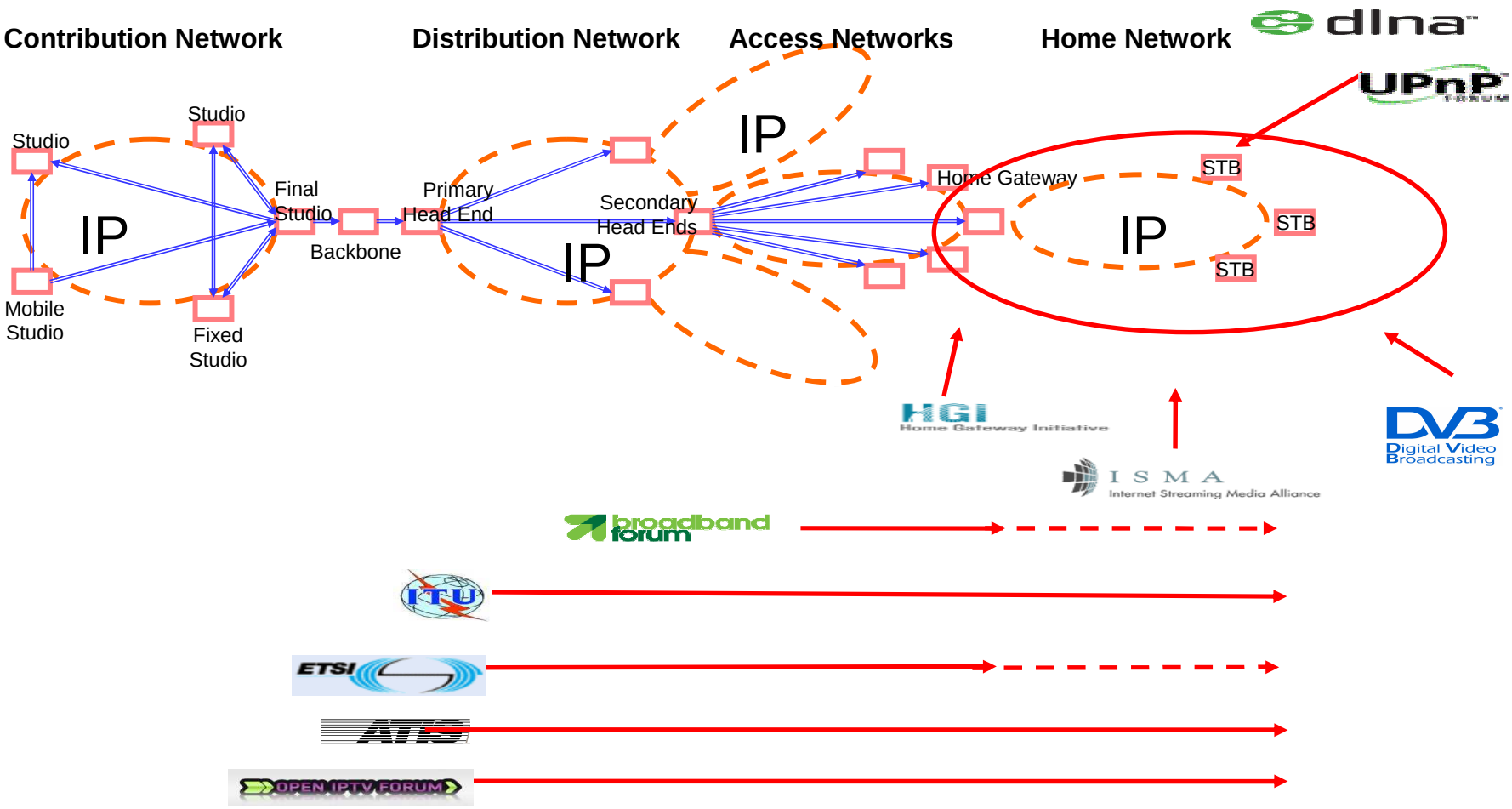
Reference point where information is exchanged

one 

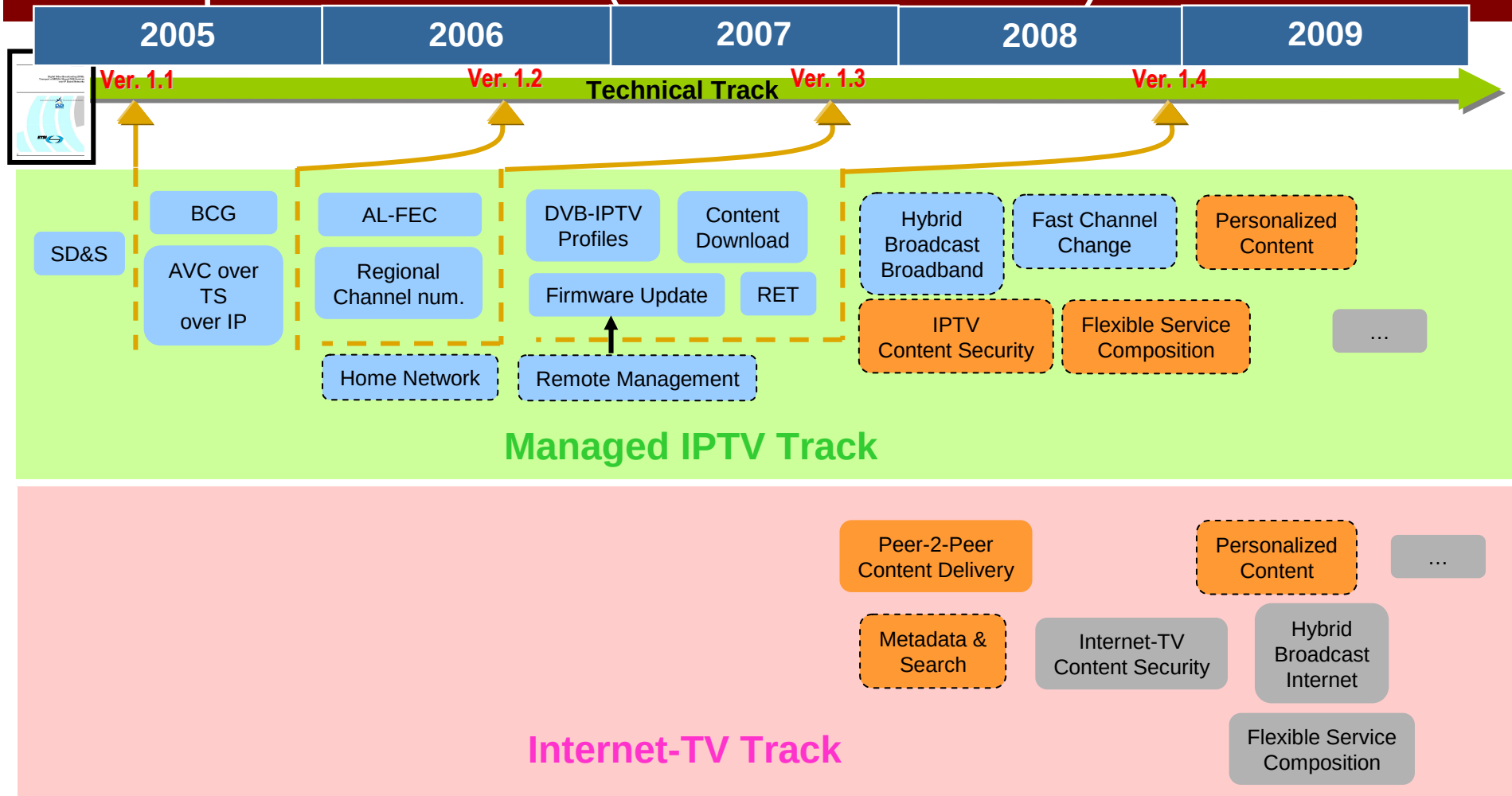
many relationship

S-C: Service provider to Content provider
N-S: Network provider to Service provider
C-S: Core network provider to Service provider
N-N: core Network provider to access Network provider
A-S: Access network provider to Service provider
U-A: User equipment to Access network provider
U-N: User equipment to Network provider
U-S: User equipement to Service provider

IPTV Standards landscape



Example: DVB-IPTV (ETSI TS 102 034)



IPTV Standards: Where do we stand ?

There are at least 7 different (but largely similar) IPTV standards

- **7 different organizations with separate meetings**
- **Significant overlap in scope and objectives**
- **Confuses operators and vendors over which will win**
- **Potentially damaging even to the winning standards who could have enjoyed more focus and contributions**

There are more than 9 different MobileTV service layer standards

IPTV Standards: What could be done ?

- **Promote**
  - **establishment of clear targets for each individual body**
  - **minimization of overlaps**
  - **recognized body taking a coordinating role**
- **Revisit on-going work based on harmonized requirements and use cases**
- **Include relationship with existing MobileTV systems (when possible)**
- **Build collaboration wider than Europe**

Thank you for your attention!

Rémi Houdaille / Ralf Schaefer
Thomson Corporate Research
remi.houdaille@thomson.net / ralf.schaefer@thomson.net