Session 4: MULTIMEDIA issues

Role of satellites in S+A MM delivery (1):

- Satellites are providing transport and switching/router functions

- Several network configurations:
  - "stand alone" (network based only on satellites)
  - "hybrid" (combined with other networks, like ISDN, GSM,...)
  - "integrated" (part of the "connection" is established over satellites)

  NB: in almost all cases there is an interface to another network!

- Protocol evolution towards IP

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<u>Role of satellites in S+A MM delivery (2):</u>

- Satellites are suitable to support all types of services like:
  - broadcasting type (R+TV distribution)
  - retrieval type (client-server architecture)
  - communication type (VoiP, VCS, VPS,..)

- Services offer is moving from the traditional S+A market (e.g. broadcasting, data, voice) towards MM S+A, targeting the same Services and Customers as the Telco and IT communities (convergence!)

- Customers are interested in service facilities, performances, prices, man/machine interface not in the underlying technologies

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S+A MM delivery over satellites:

- Standardisation from the Service viewpoint:
  -Objectives are interworking, interoperability,
    service evolution, etc…

  or
  - Seamless provision of services to the users
    (incl. QoS)
  - Common set of service facilities (service profile)
  - Compatibility of terminals
  - Service evolution independent from the network
  - Economy of scale
  - ….

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S+A MM delivery over satellites:

- What should be standardised:
    - S+A issues [lead ITU-T/SG16]:
        - Services description and models
        - Service profiles
        - Service delivery architecture end-to-end
        - Open Service Architecture (NGN)

    - QoS issues [lead ITU-T/SG12]:
        - definition of QoS classes (incl. video)
        - management of delay in a connection

    - Other issues [lead ITU-R, ITU-T SG13]:
        - Payload (RF Interface)