CONCLUSIONS (1)

o **Evolution at the S+A levels**

- MM systems will have to be able to support the rapid evolution of MM services and applications:
  - present trends includes NRFID, GRID, IPTV, Webservices, ...
  - future trends... we still not know!

- Concept of evolutionary capabilities needs to be further defined

- Consider both enterprise (segmentation!) and residential markets

ITU-T

Limitations of existing protocols (2nd generation):

- Poor or complex capability exchange

- Poor error handling and fault management

- Poor separation between service logic and call processing

- No clear separation of UNI and NNI

- Interoperability issues abound

- SIP and H.323 are problematic for mobile systems; operators have adopted H.324M

- Little consideration given to NAT/FW and other IP network issues

- Important aspects, such as QoS, security, lawful interception, emergency services, provisioning, and management were considered later, resulting in less-than-ideal solutions

- Do not take full advantage of IP networks (e.g., downloadable codecs that plug-in on demand)

ITU-T

Limitations of existing protocols (2nd generation):

- Operator and enterprise IT requirements neglected

- Designers wanted intelligence in the endpoints

- Operators and enterprise IT want to manage and control services

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→ **There is a need to start to think about a new generation of MM protocols!**

o Different scenarios have to be considered:

- Short term: improvements and extensions to existing protocols (2nd Generation):
  - H.323: ongoing activities in SG16
  - H.323/SIP interworking is a work item in SG16
  - SIP: ?
    - → Who defines the requirements?
    - → Who develop the improvements and the extensions?
    - → How can SG16 help to progress this work?

- Lo…..ng term: 3rd Generation of protocols
  - Project H.325 in SG16
- Migration SIP/H323 → H.325

What next?

o Limitations of existing protocols:

- Continue to discuss the list
- Produce a living document

o H.325 Project:

- Progress the work on requirements
- Discuss and Integrate the workshop material into the requirements
- Increase the visibility of the work
- Improve communication, in particular on the objective and the timeframe