



International Telecommunication Union



# Fix Mobile Convergence's Standardization

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Workshop on xxxxxxxxxxxx  
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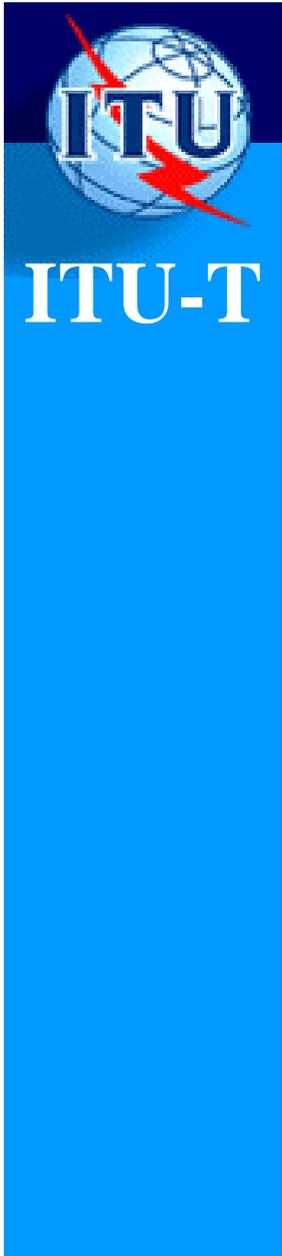
# What's the FMC?

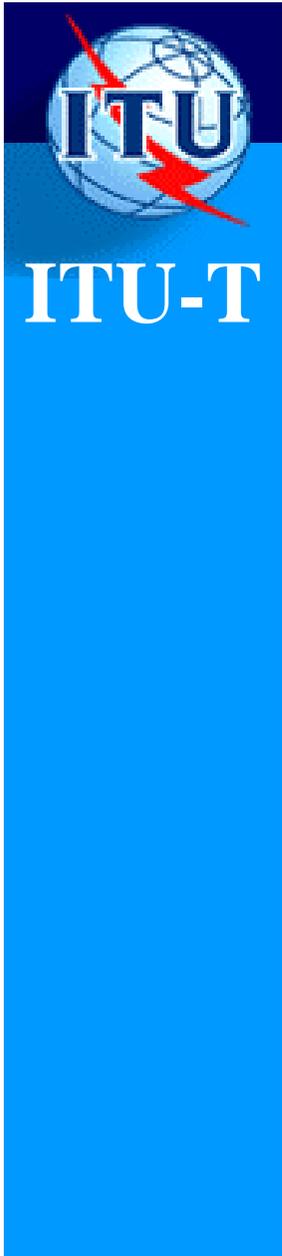
- Which includes convergence of the services, convergence of the basic architecture of NGN and Mobile Networks etc

## ITU-T Q6/13 Description

*FMC: The merging (integration) of wireless and wireline **networks and services** to create a single telecommunications network foundation.*

(from Heavy Reading)

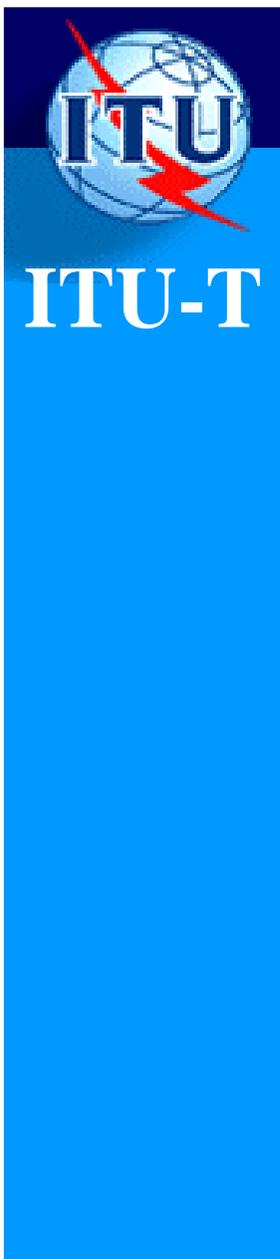




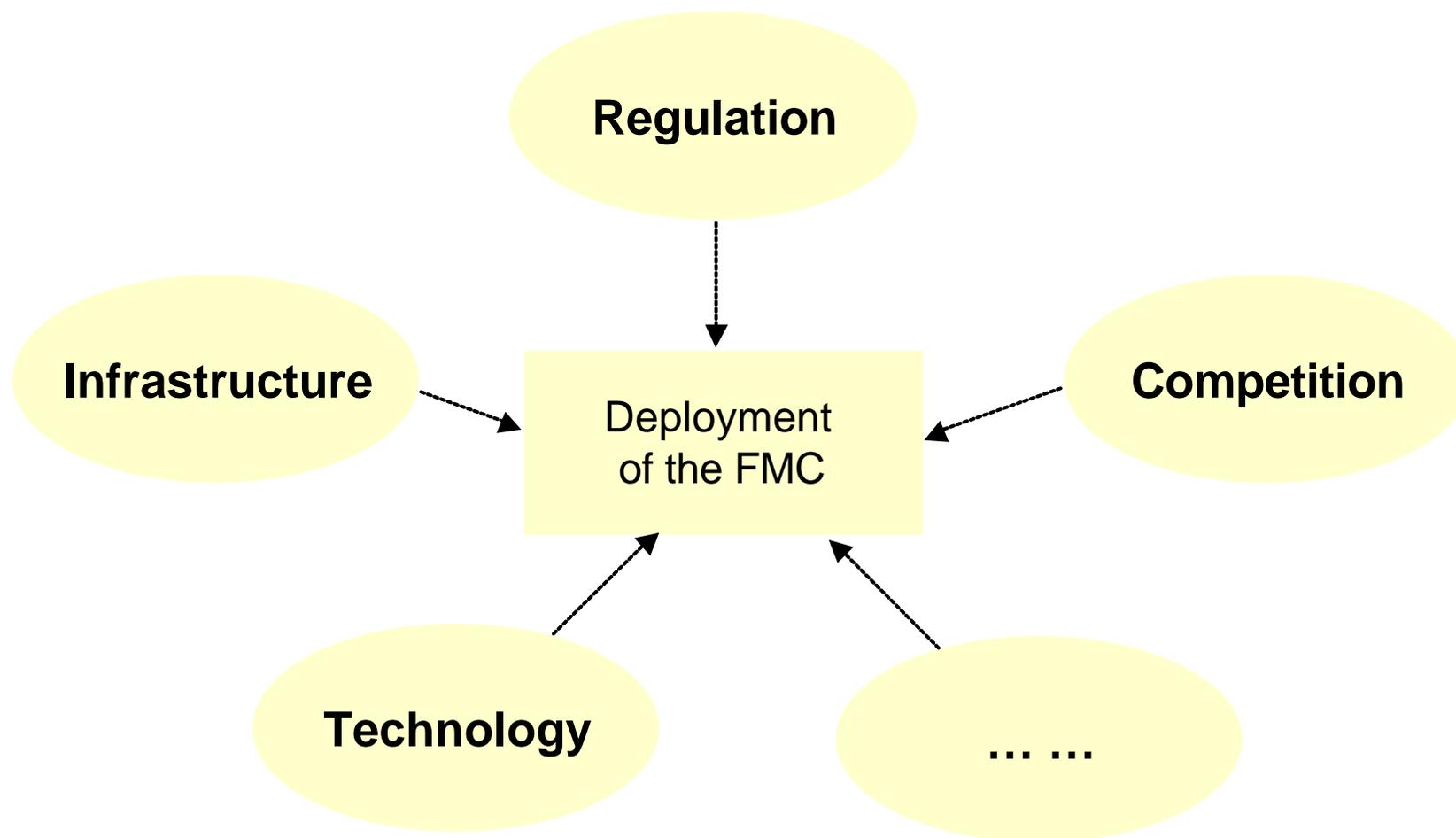
# Different Types of FMC

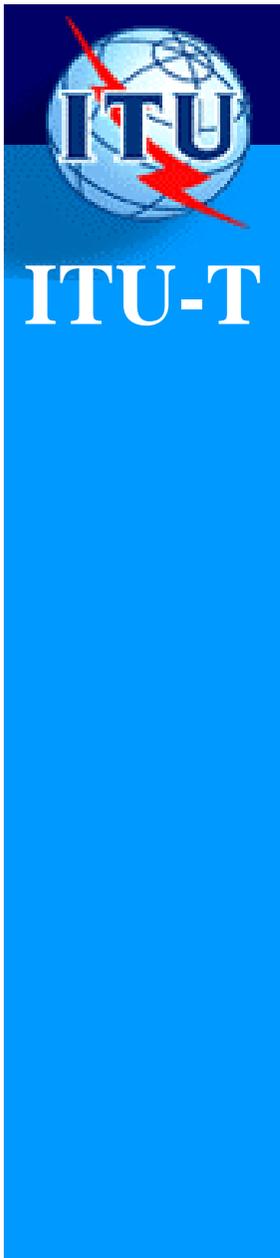
- **Commercial convergence** – the marketing and administration personnel of both the fixed and mobile departments are pooled together
- **Service convergence** – fixed and mobile services are offered to the customer in one package with or without integration between the two.
- **Network convergence** – the same physical infrastructure is used for both fixed and mobile services
- **Terminal convergence**, one terminal could access to services by different technology.





# Some Factors will effect FMC Market

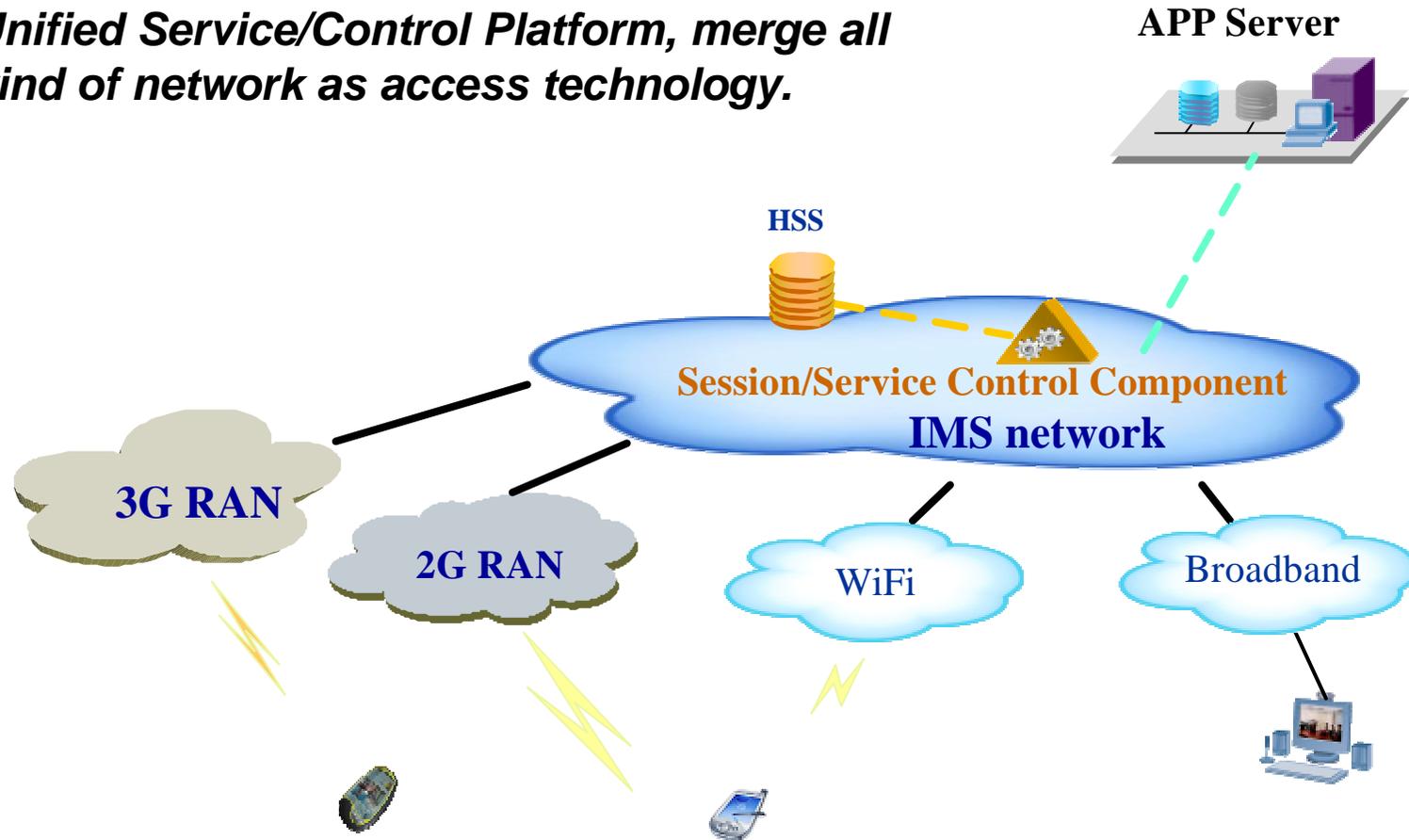


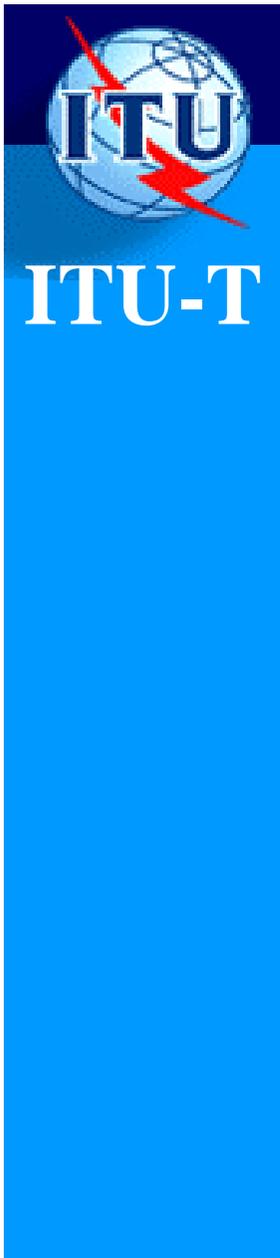


# Current Typical Solutions for FMC

## - IMS-based Convergence Solution

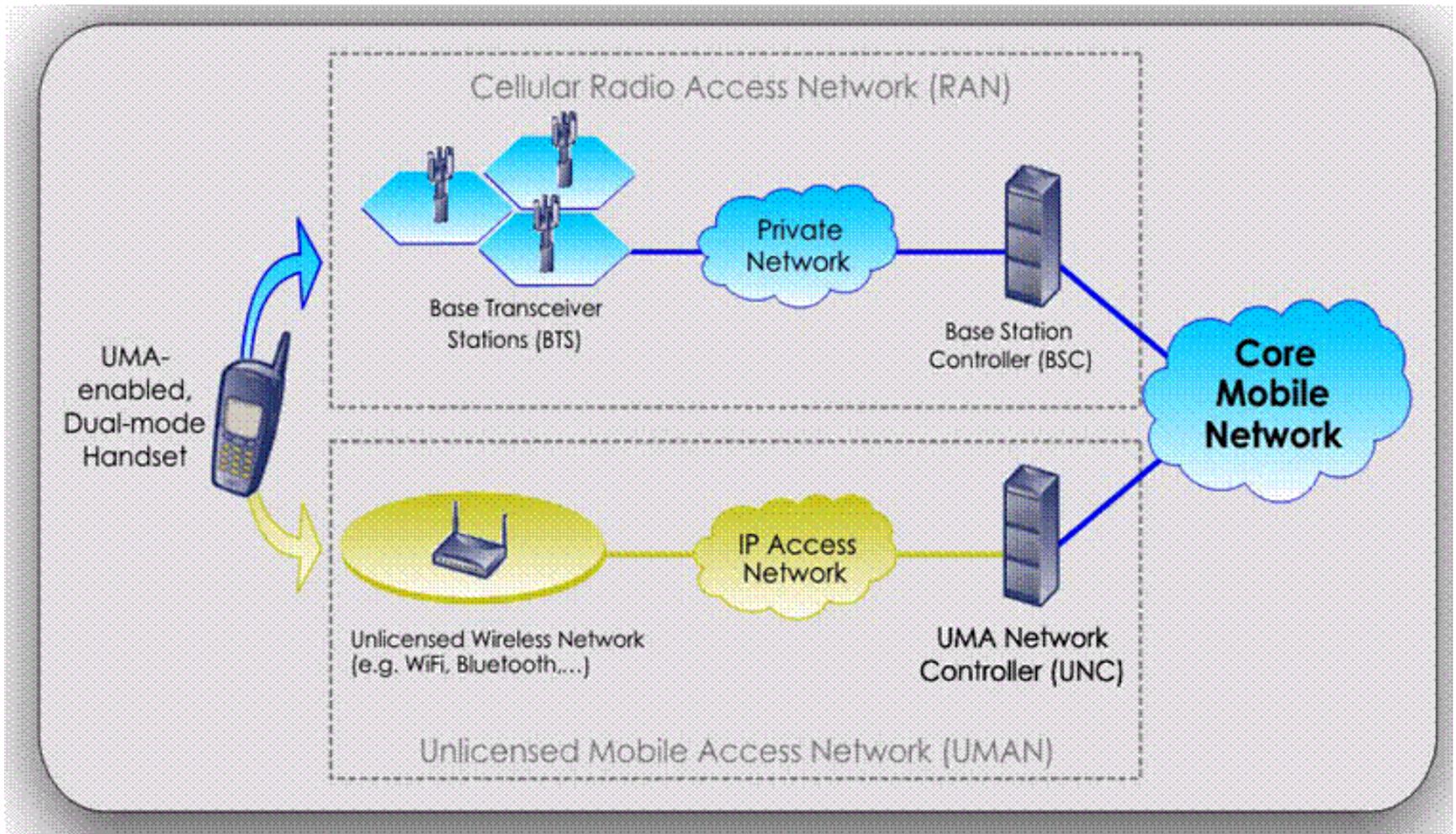
*Unified Service/Control Platform, merge all kind of network as access technology.*



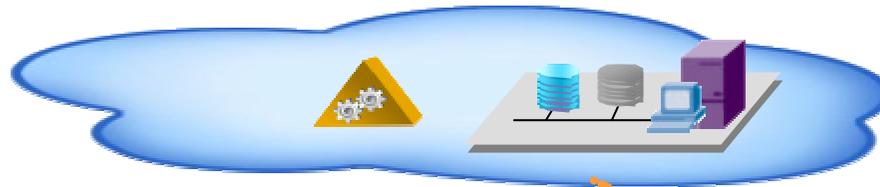


# Current Typical Solutions for FMC

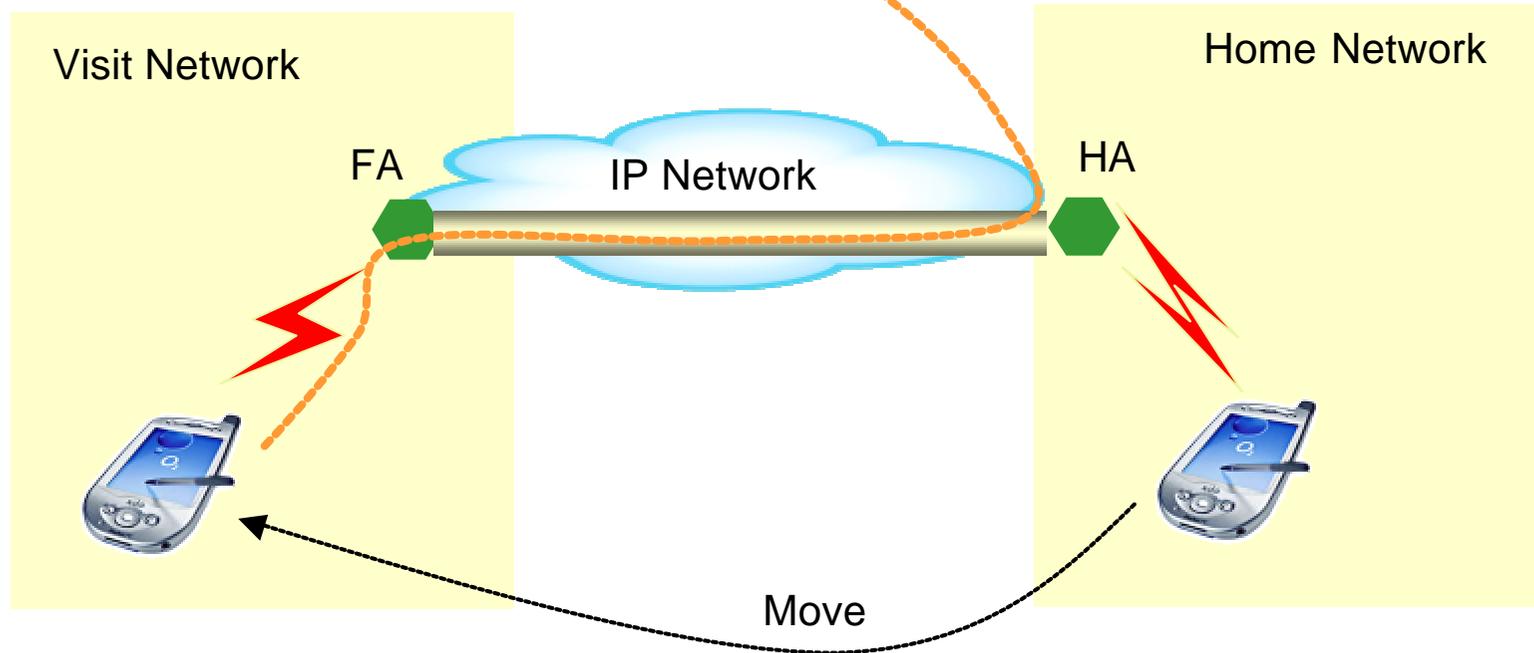
## - UMA Dual Mode Terminal Solution

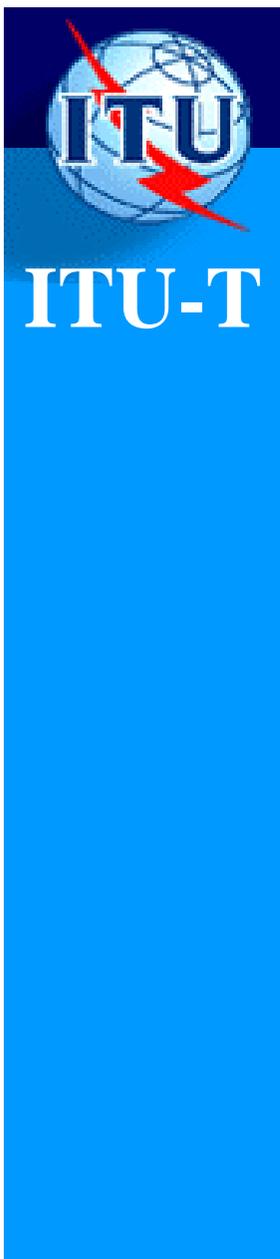


# Current Typical Solutions for FMC - Mobile IP Solution



Service and Control may be unaware of the mobility actually in most situation.





## Something need to be solved or defined

- **User Identification: Unified? Relative with each other?**
- **Authentication and Authorization**
- **Registration/De-Registration**
- **Network Interoperability**
- **Different levels of HandOver**
- **Numbering? Charging?**
- **.....**





# Different SDOs relative with FMC

Service

 Open Mobile Alliance

 The Parlay Group

Requirements ...

FMCA: Fix-Mobile  
Convergence  
Alliance  
SCCAN? ? ?

Fixed Network

 International Telecommunication Union

 ETSI TISPAN

Mobile Network

 3rd Generation Partnership Project  
3rd Generation Partnership Project2

 international Telecommunication Union

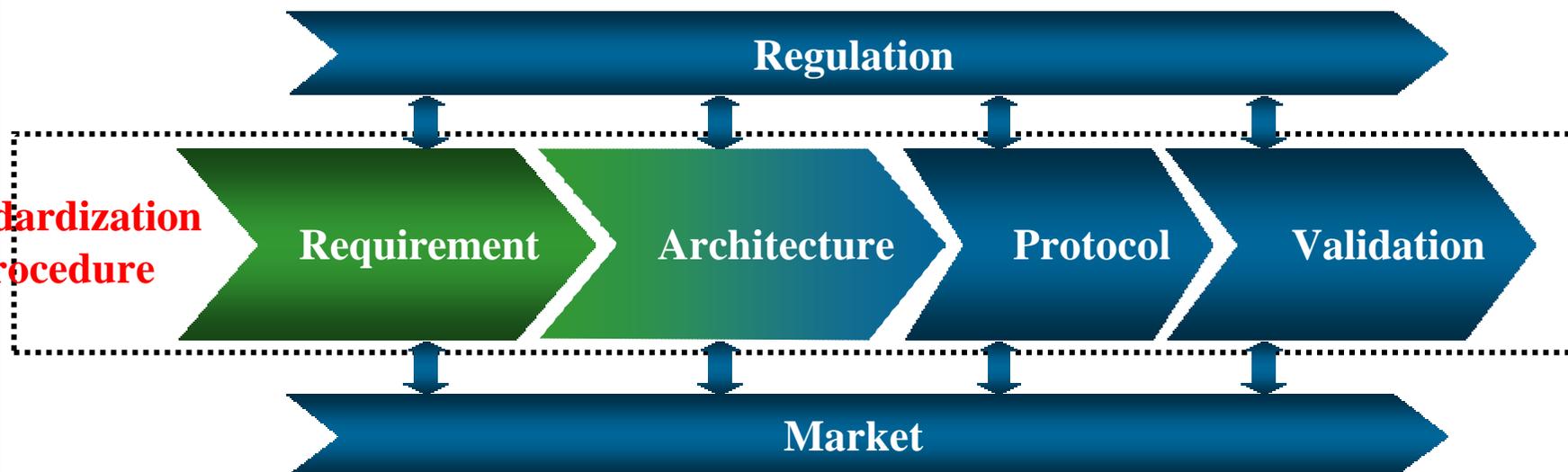
IP Tech.

 Internet Engineering Task Force



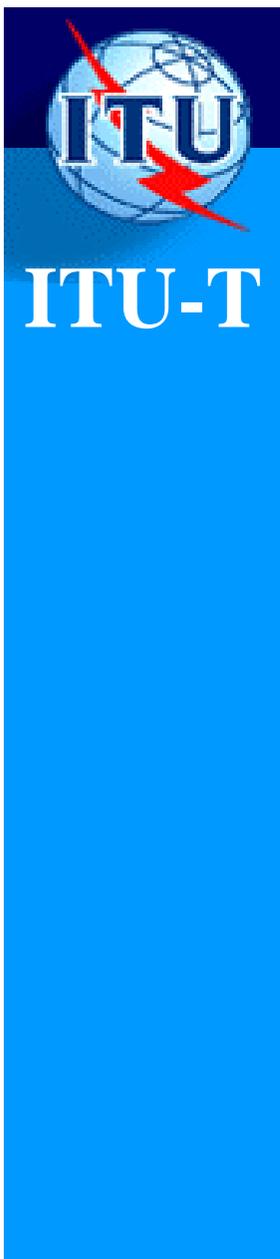


# Current Subjects in Q6/13



- Service convergence and interoperability between fixed and mobile networks
- Architecture convergence between fixed and mobile networks





# Conclusions

- FMC is one significant aspect for long-term network evolution.
- Network Architecture, Access Tech, Terminals, Transport Tech and Service platform are all important aspects for FMC.
- Standardization of Network Convergence is very important for the FMC.
- Cooperation between SDOs is really very important to standardize the FMC.
- Gaps analysis between different SDOs's output could be valuable for the study.
- FMC is still on the initial stage, need more contributors to speed up the study.

