3GPP "All-IP" vision
Long and short term

- What do we want to obtain ?

- How do we get there (phasing) ?

- What do 3GPP need to do ?

- Issues to be resolved

What do we want to obtain ?

- Establishment of a flexible service creation environment
- Quick Service/Application creation
  - APIs to allow for third party applications
  - Gain from Internet Services
  - Gain from Intranet Services
  - Utilisation of Toolkits
- Real time including Multimedia services
- Scalability

What do we want to obtain ?

- Independence of access type
  - Seamless services
  - Common Services development
  - Commonality between private and public networks
  - Potential for fixed mobile convergence
- Separation of Services, Control and Transport when beneficial
- Integrated O&M
- Leverage IP technology cost factor without compromising quality or performance

What do we want to obtain ?

- Open interfaces to ensure a multi-vendor environment
- At least same level of security as in state of the art mobile networks
- At least same level QoS as in state of the art mobile networks
- Respect spectrum efficiency
- Voice services, and other relevant legacy services

What do we want to obtain ?

- Maintain and enhance Global Roaming
- Minimise the number of options in the standard

How do to get there ?

- Hybrid CS and PS network is considered in the next release(s)
  - Real time multimedia services in PS domain
    - Streaming
    - Service control
    - Multimedia call control model
- Ensure backward compatibilty
  - Service continuity – for relevant services
  - Roaming between different releases of 2G and 3G
  - Define relevant handover between releases of 2G and 3G

How do to get there ?

- Service "transparency" across domains for common services
  - Ensure roaming across domains
  - Enable service creation across domains
  - Establish common service environment across domains
- Enhance support for VHE, OSA and Toolkits

How do to get there ?

- Study and implement separation of service, control and transport
- Enable IP transport (Interfaces to be decided)
- Enable signalling over IP
  - Enable MAP over IP
- Ensure sufficient address space
- Support for charging and billing

What do 3GPP need to do ?

- Establishment of longer term architecture as part of R00
- Establishment of workplan for R00
- Establishment of detailed requirements
- Study requirements for naming and addressing

What do 3GPP need to do ?

- Identify potential reuse of work other bodies
- Potentially co-operate with other bodies

Issues to be resolved

- Which Mobility Management model(s)
- Which Call Control model (H.323, SIP, H248, ... ?)
- Study enhancement to GTP tunneling to harmonise with mobile IP and IPv6 mobility
- IP version to use – IPv6 ?
- How to migrate to IPv6 ?

Issues to be resolved

- Where to use IP transport ?
  - Core network
  - Iu interface
  - UTRAN
  - Uu Interface