

Title : Key issues for Release 2000**Source:** Drafting Group

Issue	Order of consideration
Domain Definitions	1
Roaming	
What is the functionality split between the visiting and home networks? <ul style="list-style-type: none"> • Where to support the services/applications • Into/from Legacy Networks • Where to support the call control (When roaming outside the home network, does the CC run from the MS to the visited network [roamed to] and/or transparently through the visited network to the home network?) • Where to locate the bearer/resources e.g local routing, is the MRF used in the visited/home network or both. • Charging and Billing 	1 (first) 1 1 1 1 2
Addressing Identifiers and Routing	
What are the identities of the subscriber and the aliases of the terminal (Addressing Principles) (1) <ul style="list-style-type: none"> • Identifiers external (e.g. MSISDN, Ip address, aliases, domain name, e-mail...) • Identifiers inside the network multiple levels (e.g. bearer, application ...) 	1
Where is the IP address allocated? What is the scope of the IP address, which parts of the network is it relevant within?	1
When is the IP address allocated?	2
When is the terminal associated with the IP address?	2
Where is the association of the bearer and the IP address held within the network?	2
To which entities are the calls from the PSTN routed, which functionalities are involved in determining how to treat MT communications from ingress to the network through to delivery to the terminal. In R99, 23.002 defines that calls incoming to the PLMN are routed to the GMSC.	2
QoS	
Ongoing support for inter SGSN change (handover and SRNS relocation), both within GSM and 3G and between GSM and 3G, to satisfy the QoS requirements.	B

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End to end quality of service negotiations and provision (e.g. delay)	A
The applicability of QoS negotiation mechanisms e.g. RSVP signalling	A
Adapt a QoS policy framework for UMTS	B
Interact between CC/application signalling and QoS negotiation	A
What are the QoS requirements to carry application and control signalling (e.g. CC/Multi-media signalling)?	C
General	
How to provide services in an R00 network (VHE/OSA)	3
When to register the terminal with the network and with applications? (and what information)	2
How the terminal finds the entity to register with?	2
Support of multiple applications / multi media	3
Can we have an SSF with CSCF? How is bearer manipulation handled?	2
How to incorporate IPv6.	2
Subscriber and service data storage and management.	3
Mobility Management and Handover (which Handovers do we want to support)?	2
Standard non-3GPP CC and multi media mechanisms, or mobile enhancements to a non 3GPP CC and multi media mechanism, or a 3GPP specific CC and multi media mechanism.	1
Radio resource efficiency: Support for data reduction mechanisms in the user plane for IP transport (can we reuse or optimise user plane aspects (e.g. speech bearer for VoIP speech calls, trade offs of transparency versus spectrum efficiency))	2
End to end delay: Is optimisation of the U Plane required for end to end delay ?	2

Note: The orders of consideration for the QoS category are for the QoS Group to consider further! The QoS issues are to be handled in parallel to the other issues, the order of handling indicated by A,B,C are for the QoS issues only.

Scenarios to consider:

MO when roaming

MT when roaming

Consider scenarios with multiple applications running.