

**TSG-SA Working Group 1 (Services) meeting #3**  
**Hampton Court, Surrey, UK 10<sup>th</sup>-12<sup>th</sup> May 1999**  
**Agenda Item: 6.3**

**TSGS1#3(99)329**

**Source: Ericsson**

**Title: Quality of Service – Correction**

**Document for: Discussion / Decision**

<b>CHANGE REQUEST No :</b>		<b>A011</b>	<small>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</small>	
Technical Specification / Report UMTS		22.05	Version: 3.4.0	
Submitted to	#4	for approval	<input checked="" type="checkbox"/>	without presentation ("non-strategic") <input type="checkbox"/>
<small>TSG_SA</small>				
<small>list TSG plenary meeting no. here ↑</small>		for information	<input type="checkbox"/>	with presentation ("strategic") <input checked="" type="checkbox"/>
<small>PT SMG CR cover form is available from: <a href="http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip">http://docbox.etsi.org/tech-org/smg/Document/smg/tools/CR_form/crf28_1.zip</a></small>				

**Proposed change affects:**

(at least one should be marked with an X)

USIM  TE  Network

**Work item:** Quality of service requirements

**Source:** Ericsson **Date:** 1999-04-30

**Subject:** Changes as a consequence of the TSG-SA decision on TSGS1 to specify end-to-end requirements.

<b><u>Category:</u></b> <small>(one category and one release only shall be marked with an X)</small>	F Correction	<input checked="" type="checkbox"/>	<b><u>Release:</u></b> Phase 2	<input type="checkbox"/>
	A Corresponds to a correction in an earlier release	<input type="checkbox"/>	Release 96	<input type="checkbox"/>
	B Addition of feature	<input type="checkbox"/>	Release 97	<input type="checkbox"/>
	C Functional modification of feature	<input type="checkbox"/>	Release 98	<input type="checkbox"/>
	D Editorial modification	<input type="checkbox"/>	UMTS 99	<input checked="" type="checkbox"/>

**Reason for change:** Radio interface optimisation and GSM interworking scenarios is not an end-to-end aspect

**Clauses affected:** 5.6, 5.7

<b><u>Other specs affected:</u></b>	Other releases of same spec	<input type="checkbox"/>	→ List of CRs:	
	Other core specifications	<input type="checkbox"/>	→ List of CRs:	
	MS test specifications / TBRs	<input type="checkbox"/>	→ List of CRs:	
	BSS test specifications	<input type="checkbox"/>	→ List of CRs:	
	O&M specifications	<input type="checkbox"/>	→ List of CRs:	

**Other comments:**



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<----- double-click here for help and instructions on how to create a CR.

## 5.5 Supported topologies

It shall be possible for an application to specify its traffic topology requirements to the network by requesting a bearer service with any value for the communication configuration attribute. However, some combinations with the symmetry attribute are not authorised. The supported configurations are :

- 1) Point-to-Point
  - Uni-Directional
  - Bi-Directional
    - Symmetric
    - Asymmetric
- 2) Uni-Directional Point-to-Multipoint
  - Multicast
  - Broadcast

A multicast topology is one in which sink parties are specified before the connection is established, or by subsequent operations to add or remove parties from the connection. The source of the connection will always be aware of all parties to which the connection travels.

A broadcast topology is one in which the sink parties are not always known to the source. The connection to individual sink parties is not under the control of the source, but is by request of each sink party.

In the case of a mobile termination with several active bearer services simultaneously, it shall be possible for each bearer service to have independent topologies and source/sink parties.

## 5.6 ~~Radio Interface optimisation~~

~~The following requirements shall lead the radio interface optimisation process;~~

- ~~— support of high bit rate (around the Peak Bit Rate), bursty, asymmetric, non-real time bearer capabilities;~~
- ~~— support of high bit rate (around the Peak Bit Rate), bursty, asymmetric, real time bearer capabilities;~~
- ~~— the ability to extend or reduce bandwidth associated to a bearer capability in order to adapt to bit rate or radio condition variations, to add or drop service components.~~

~~However, the services provided by GSM (speech in particular) shall be supported in a spectrally efficient manner (at least as efficiently as in GSM) for the same quality of service.~~

~~In order to allow the support of flexible, bandwidth on demand services, bearer services should be provided with the finest possible granularity that can be efficiently supported.~~

## 5.7 ~~Support of GSM general bearer services~~

~~UMTS shall support GSM General Bearer Services (GBS) and interworking scenarios as specified in 02.02.~~

## 6 Teleservices

### 6.1 Definition of teleservices

Teleservices provide the full capabilities for communications by means of terminal equipment, network functions and possibly functions provided by dedicated centres.