Technical Specification Group Services and System Aspects   *TSGS#11(01) 0061*
Meeting #11, Palm Springs, CA, USA, 19-22 March 2001

Source:	SA1
Title:	**CR to 22.129 to correct references to releases**
Document for:	**Approval**
Agenda Item:	**7.1.3**

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New
22.129	003		Rel-4	Editorial CR to correct references to releases	D	4.1.0	4.2.0

CR-Form-v3

CHANGE REQUEST

| ⌘ | **22.129** | CR | **003** | ⌘ rev | **-** | ⌘ | Current version: | **4.1.0** | ⌘ |

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘   (U)SIM ☐   ME/UE ☐   Radio Access Network **X**   Core Network **X**

Title: ⌘	Editorial CR to 22.129 for Rel4	
Source: ⌘	SA1	
Work item code: ⌘	Correct	***Date:*** ⌘ 8 February 2001
Category: ⌘	D	***Release:*** ⌘ REL-4

Use <u>one</u> of the following categories:
  F *(essential correction)*
  A *(corresponds to a correction in an earlier release)*
  B *(Addition of feature),*
  C *(Functional modification of feature)*
  D *(Editorial modification)*
Detailed explanations of the above categories can
be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
  2   *(GSM Phase 2)*
  R96 *(Release 1996)*
  R97 *(Release 1997)*
  R98 *(Release 1998)*
  R99 *(Release 1999)*
  REL-4 *(Release 4)*
  REL-5 *(Release 5)*

Reason for change: ⌘	Minor editorial corrections and correction of release specific references.
Summary of change: ⌘	Minor editorial corrections and removal of references to R99.
Consequences if not approved: ⌘	

Clauses affected: ⌘	4.3.5, 5.5, 7, 8.
Other specs affected: ⌘	☐ Other core specifications ⌘
	☐ Test specifications
	☐ O&M Specifications
Other comments: ⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at:
http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

*** first changed section ***

## 4.3.5	Security

Security requirements should embody the principle that handover shall not compromise the security of the network providing the new radio resources; the (possibly different) network providing the original radio resources; and the ~~terminal~~UE. The security mechanisms should also cater for appropriate authentication processes and meet the requirements of national administrations in terms of lawful interception.

*** next changed section ***

## 5.5	Handover of a Multicall

The handover event can trigger changes to individual calls in any multicall scenario.

It shall be possible to handover all the calls in a multicall configuration.~~.~~ If the target cell is not able to accommodate all the calls in a multicall configuration, then the calls that are handed over shall be selected in following order:

*** next changed section ***

## 6.4	Requirements on multiple bearer services handover from UTRAN to GERAN

Consideration must be given to services that may involve multiple bearer services. The mapping between UTRAN bearer services and GERAN bearer services will depend upon many factors such as data rate, delay constraints, error rate etc. In the event certain UTRAN bearer services cannot be handed over to GERAN, the handover of some of the bearers to maintain the service should not be precluded.

In the case where user equipped with a dual mode terminal is in UTRAN coverage and has multiple PDP contexts activated (for instance to support multimedia) then it is preferable to handover one PDP context, rather than dropping all of them.

As a first priority only the PDP contexts which have an associated QoS that can be supported by the GERAN should be candidates for handover.

If there are still multiple PDP contexts as "handover candidates" then it shall be an operator choice which PDP context will be maintained. When roaming this decision shall be taken by the serving network. The operator may choose to either;

a)	Drop all of the PDP contexts.

b)	Choose one based upon criteria such as duration, amount of traffic transferred, etc.

In case of UTRAN to GERAN handover of a **Multicall** only one call can be handed over.~~7	Requirements for Handover from GERAN to UTRAN~~

# 7	Requirements for Handover from GERAN to UTRAN

## 7.1	Operational Requirements

*** next changed section ***

# 8	Cross Phase Compatibility for this release

This section details the cross phase compatibility requirements relating to the service requirements in this document.

Note:	When a change is introduced which affects the 3GPP technical specifications, it is said to be 'backward compatible' if existing equipment can continue to operate and perform correctly with equipment that conforms to the new implementation.

8.1 Compatibility with Existing Specifications

~~There are no earlier releases of the UTRAN specifications for which backward compatibility is required.~~

Where the service and operational requirements in this document relate to a GERAN, compatibility is required with systems conforming to the R99 or later GERAN specifications.

## 8.2	Compatibility with Future 3GPP specifications

The specifications that define the technical implementation of ~~R99~~this release should be developed in such a way that it is practical to add the requirements in this section in a backward compatible manner.

### 8.2.1	Requirements for Service Capabilities

3GPP standardises service capabilities, not services. As part of the service capabilities it is envisaged that applications may wish to respond to events related to handover that either has occurred, is about to occur or could potentially occur. The service capabilities described in this section should be available at least to UE hosted applications.

The following list of uses is provided as an example and is not intended to be exhaustive:

- An application may wish to accept or reject offered QoS;

- An application may wish to cope to the effect that handover has on a service, for example facsimile retransmission;

- An application may wish to preferentially choose radio resources.

It is therefore required that the service capability set available to an application be able to provide an indication that handover has occurred or could occur with information about the type of handover and radio resources involved. The service capabilities should support QoS negotiation.

### 8.2.2	Inter PLMN Handover Issues

The minimum requirements for inter-PLMN HO are:

- The ability to check with the home network whether the user is permitted to handover from the visited network

to a target network.

- Invocation of the handover procedure only occurs if the target network provides the radio channel type required for the respective call;

- The avoidance of "network hopping", i.e. successive handover procedures between neighbouring networks for the same call;

- The possibility of user notification of inter-PLMN HO (e.g. possible tariff change) when it occurs.

8.3   Support of Multtiicall with Simultaneous Voice Calls

In the case where Multicall is used to support multiple voice calls a handover must be attempted for each bearer that is in use. In the case where not all bearers can be supported by the destination network the related voice calls shall be automatically put on hold. After the handover is completed, the subscriber shall be able to retrieve any held voice call by invoking the Call Hold service.

This requirement is dependent on the user subscribing to Call Hold.

This is only required if there is more than one simultaneous speech call and this is therefore not required for Release 99this release.