Source:	**SA5 (Telecom Management)**
Title:	**Rel-6 CR 32.421 (Subscriber and equipment trace: Trace concepts and requirements) "Corrections to Trace requirements - alignment with SA2's 23.002"**
Document for:	**Approval**
Agenda Item:	**7.5.3**

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
SP-030147	32.421	001	-	Rel-6	**Corrections to Trace requirements - alignment with SA2's 23.002**	F	6.0.0	S5-038139	OAM-Trace

CR-Form-v7

CHANGE REQUEST

| ⌘ | **32.421** CR **001** | ⌘ **rev** | **-** | ⌘ | Current version: | **6.0.0** | ⌘ |

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

Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network **X** Core Network **X**

Title:	⌘	Corrections to Trace requirements - alignment with SA2's 23.002

Source:	⌘	S5

Work item code:	⌘	OAM-Trace		**Date:** ⌘	28/02/2003

Category:	⌘	**F**		**Release:** ⌘	Rel-6

Use one of the following categories:
F (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 one 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)
Rel-6 (Release 6)

Reason for change:	⌘	Sub-clause 5.2 contains two errors, which may cause confusion:
		1) The (traceable) interfaces Iu-CS and Iu-PS are missing from the BSC bullet point and only included in the RNC bullet point. However, these interfaces exist in both (see e.g. TS 23.002 "Network Architecture" v5.9.0 sub-clause 5.1 "Basic Configuration") and should so be listed.
		2) The requirement concerning generation of an id for a Trace Recording Session is incorrectly stating that this id would be called "Trace Reference" while it should be "Trace Recording Session Reference" (as correctly stated elsewhere in the specification).

Summary of change:	⌘	1) Add the missing interfaces (Iu-CS and Iu-PS) to the BSC bullet point
		2) Change "Trace Reference" to "Trace Recording Session Reference" in the requirement concerning the generation of an id for a Trace Recording Session.

Consequences if not approved:	⌘	1) The absence of the two interfaces from the BSC bullet point may cause confusion and even lead to incomplete stage 3 specifications in GERAN as this TS is used as a reference document during the Rel-6 work for other 3GPP WGs for the effort that SA5 is requesting from them.
		2) TS 32.421 is contradictory.

Clauses affected:	⌘	5.2

		Y	**N**	
Other specs affected:	⌘		**X**	Other core specifications	⌘	
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

How to create CRs using this form:

Changes in sub-~~Clause~~ clause 5.2

5.2   Requirements for Trace Data

The high level requirements for Trace Data, common to both Management activation/deactivation and Signalling based activation/deactivation, are as follows:

- The Trace records have to contain Information Elements or signalling messages from control signalling and/or the characteristics of the user data. The following list contains the Network Elements and the Traceable interfaces in the NEs where tracing is needed:

    - MSC Server: A, Iu-CS, Mc and MAP (G, B, E, F) interfaces;

    - MGW: ATM, IP and TDM interfaces for user plane characteristics;

    - HSS: MAP (C, D, Gc, Gr) and Cx interfaces and location and subscription information;

    - SGSN: Gb, Iu-PS, Gn, MAP (Gr, Gd, Gf), CAP (Ge) and Gs interfaces;

    - GGSN: Gn and Gi interfaces;

    - S-CSCF: Mw, Mg, Mr and Mi interfaces;

    - P-CSCF: Gm and Go interfaces;

    - RNC: Iu-CS, Iu-PS, Iur, Iub and Uu interfaces;

    - BSC: Iu-CS, Iu-PS, Um, Abis, A and Gb interfaces.

- A unique ID within a Trace Session shall be generated for each Trace Recording Session. This is called the Trace Recording Session Reference.

Changes to existing NEs and interfaces above may be required. These changes would be dependent upon various 3GPP working groups and possibly other non-3GPP industry groups for completion of Trace Session activation/deactivation.

For a detailed description of network elements and interfaces above see 3GPP TS 23.002 [4].

End of Changes in sub-~~Clause~~ clause 5.2
End of Document