

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>03.50</b>	<b>CR</b>	<b>A020</b>
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: <b>TSG-SA#10</b>		Current Version: <b>6.6.1</b>
list expected approval meeting # here ↑	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>
	for information <input type="checkbox"/>	non-strategic <input checked="" type="checkbox"/> (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG      The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

**Proposed change affects:** (U)SIM     ME     UTRAN / Radio     Core Network   
(at least one should be marked with an X)

**Source:** Alcatel **Date:** 02/03/00

**Subject:** addition of a new optional artificial ear Type for acoustic tests

**Work item:** TEI

<b>Category:</b>	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input checked="" type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input checked="" type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

**Reason for change:** Due to the design evolution of the terminals, the current acoustic measurements may be not appropriate. The introduction of the Type 3.4 artificial ear brings improvement and enables to get closer to the reality.

**Clauses affected:** B.4.1

<b>Other specs affected:</b>	Other 3G core specifications <input type="checkbox"/> Other GSM core specifications <input checked="" type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: → List of CRs: CR on 11.10 → List of CRs: → List of CRs: → List of CRs:
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**Other comments:** According to the ITU-T Recommendation P.57 manufacturers are allowed to use Type 3.3 or 3.4 artificial ear if the ear piece shape is not suitable for the Type 1 or 3.2 artificial ear.  
This CR add a new optional artificial ear and does not remove any artificial ear from the current list.



help.doc

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

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## B.4 Test arrangement

### B.4.1 Electro-acoustic equipment

**Artificial mouth:** unless specified otherwise, the artificial mouth shall conform to ITU-T Recommendation P.51 [38].

**Artificial ear:** the ITU-T Recommendation P.57 [46] Type 1 shall be used.

If requested by the terminal supplier, the ITU-T Recommendation P.57 [46] Type 3.2 artificial ear shall be used for all tests. In this case the following apply:

- the low leakage option of Type 3.2 artificial ear shall be adopted;
- the force against the ear shall be as specified in ITU-T Recommendation P.57 [46];  
sound pressure measurements shall be referred to the ERP as specified in ITU-T Recommendation P.57 [46];
- no leakage correction shall be made in the calculation of RLR (i.e.  $L_E=0$ ).

If requested by the terminal supplier, the ITU-T Recommendation P.57 [46] Type 3.4 artificial ear may be used. The positioning is defined in ITU-T Recommendation P.64.

The test report shall indicate the type of artificial ear used for the receive tests.

**HATS:** when a HATS is used, it shall conform to ITU-T Recommendation P.58. In such a case, all the sending and receiving characteristics shall be tested with the HATS and it shall be indicated in the test report that the HATS was used.