3GPP TSG-SA ***Tdoc SP-040605***
Meeting #25, Palm Springs CA (USA), September 2004

Source: **MCC**
mailto:john.meredith@etsi.org

Title: **CRs to 21.900**

Document for: **approval**

Spec	CR	Rev	Rel	Subject	Cat	Version written to	Work Item
21.900	022	1	Rel-6	From draft to change control in one easy move	F	6.2.0	TEI6
21.900	023	1	Rel-6	WI code to be shown on CR sets changing similar functionality in several Releases	F	6.2.0	TEI6

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Tdoc ⌘SP-040605

CR-Form-v7

CHANGE REQUEST

⌘ **21.900** **CR** **022** ⌘**rev** **1** ⌘ **Current version:** **6.2.0** ⌘

*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 ☐ Core Network ☐

Title:	⌘	From draft to change control in one easy move
Source:	⌘	MCC
Work item code:	⌘	TEI6
Date:	⌘	09/09/04
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:	⌘	To add procedures allowing for the direct approval of a specification the first time it is seen by a TSG.
Summary of change:	⌘	Addition of text covering the above eventuality.
Consequences if not approved:	⌘	No procedures covering this case.

Clauses affected:	⌘	4.0A, 4.0B, 4.1.1

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

⌘

Other comments: ⌘

4 Handling of Specifications

[…]

4.0A Version nomenclature

Each specification is associated with a "version number" in the form x.y.z which uniquely identifies the document. The significance of the three fields is defined in table 3.

Table 3: Version number fields

Field	Use	Remarks
x	major also referred to as "release"	0: draft 1: presented to TSG for information (specification estimated by prime responsible Group to be at least 60% stable); exceptionally, presented for approval (see clause 4.1.1) 2: presented to TSG for approval (specification estimated by prime responsible Group to be at least 80% stable) 3 or greater: approved by TSG and under change control; the value indicates the Release according to table 4.
y	technical	Incremented every time a technical change is introduced into the specification. Once under change control, such changes shall only occur when the TSG approves one or more Change Requests. Reset to zero every time the "major" field is incremented.
z	editorial	Incremented every time a purely editorial change is introduced into the specification. Reset to zero every time the "technical" field is incremented or reset to zero.

Table 3 shows the estimated degree of stability to be used as a guideline for determining when to raise a specification to version 1.y.z and to 2.y.z. Such figures are obviously subjective, and the decision is ultimately at the discretion of the responsible Group.

4.0B Releases

[…]

Table 4: Version numbers vs. Releases

Spec under change control for …	**spec number format and version**
GSM Phase 1	aa.bb v3.y.z
GSM Phase 2	aa.bb v4.y.z
GSM Phase 2+ Release 1996	aa.bb v5.y.z
GSM Phase 2+ Release 1997	aa.bb v6.y.z
GSM Phase 2+ Release 1998	aa.bb v7.y.z
GSM Phase 2+ Release 1999 **(pure GERAN-based system)**	aa.bb v8.y.z
~~3GPP~~ pure UTRAN-based system and common GERAN- and UTRAN-based systems~~(excl GSM)~~ Release 1999	aa.bbb v3.y.z
~~3GPP~~GERAN- and UTRAN-based systems Release 4	aa.bbb v4.y.z
~~3GPP~~GERAN- and UTRAN-based systems Release 5	aa.bbb v5.y.z
GERAN- and UTRAN-based systems Release 6	aa.bbb v6.y.z
GERAN- and UTRAN-based systems Release 7	aa.bbb v7.y.z
…	…
NOTE: From Release 4 onwards the 3GPP format for specification numbers and versions applies to all specifications (including those only relevant for implementation of a stand-alone GSM system).	

4.1 Overview

[…]

4.1.1 General

A new specification shall be created in a Group. At creation, a rapporteur shall be appointed. The rapporteur shall produce an initial draft, version 0.0.0, and subsequent revised versions (version 0.1.0, possibly 0.1.1, 0.1.2 and so on, then version 0.2.0 etc.). Details of the role of the rapporteur are described in subclause 4.1.2.

The rules for drafting specifications, and the software tools to be used are listed in 3GPP TR 21.801.

Versions 0.1.0, 0.2.0, 0.3.0 etc. should be presented to the responsible Group. Versions 0.i.1, 0.i.2 etc. may be internal to the drafting group.

Further drafts may be produced, with appropriate increments in the "technical" / "editorial" fields of the version number. Every new draft with an incremented "technical" version field shall be presented to the responsible Group. Although two or more Groups may have an interest in contributing to the development of a specification, ultimate responsibility vests in a single (responsible) Group. The responsible Group shall ensure that all other Groups which might have an interest are given the opportunity to participate in the drafting.

The Support Team is responsible for allocating specification numbers. As soon as title, scope and some other information on the specification is stable, the Support Team shall assign a specification number according to the provisions of subclause 4.0 and shall enter the specification into the Status List of Specifications (see clause 7). The TSG Sub-Group responsible for the specification shall inform its parent TSG that such a new specification is under construction.

When a specification is sufficiently stable (see table 3), it shall be converted to version 1.0.0 (with no technical changes with respect to the previous version 0.y.z) by the Support Team, and presented to the TSG for information. Further drafts bearing version numbers 1.y.z may be produced until the specification is sufficiently stable to be approved by the TSG. At this stage, and until formal approval by the TSG, the specification is, unless it belongs directly to a TSG, under the control of the responsible TSG Sub-Group. The modalities governing the introduction of changes shall be decided on a case by case basis by the WG concerned.

Once the responsible Group considers that the draft is sufficiently stable (see table 3) that it is desirable to place it under change control, the latest version 1.y.z shall be converted to version 2.0.0 (with no technical changes with respect to the previous version 1.y.z) by the Support Team and presented for approval at the TSG.

If the TSG does not approve the draft, further drafts version 2.y.z may be produced by the responsible Group.

If the TSG does approve the draft, the approved version (with no technical changes) shall be converted to version x.0.0 where "x" corresponds to the Release identity given in table 4.

NOTE: It is thus quite normal that a 3GPP specification approved for, say, Release 4, jumps directly from version 2.0.0 to version 4.0.0; there is no Release 1999 document, therefore no version 3.y.z.

The specification shall now be under TSG change control. Further changes shall be made by means of formal change requests, to be approved by the TSG. On approval of a CR, the middle number shall be incremented and the right-most number reset to 0 (e.g., from 7.2.1 to 7.3.0).

The text above describes the two-step information-approval procedure which is to be taken as the general rule. However, in exceptionally urgent cases, it may occasionally be expedient for a working group to ask its TSG to approve a specification at first sight rather than using the two-step procedure described above. In this case, a version 1.0.0 shall be produced as above but the cover sheet shall clearly indicate that the TSG is asked to approve the specification to be placed under change control. If the document is thus approved, the Support Team will convert it directly from version 1.0.0 to version x.0.0 (where "x" corresponds to the Release identity), bypassing 2.0.0. (Note that version 1.0.0 shall not be bypassed in favour of version 2.0.0.)

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CHANGE REQUEST

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R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	To clarify that the same WI code is to be shown on every CR of the set. (Also to stress that a WI code is obligatory for every CR.)
Summary of change:	⌘	Addition of text covering the above eventuality.
Consequences if not approved:	⌘	Rules unclear.

Clauses affected:	⌘	4.6.1 & 4.10.2

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

Other comments: ⌘

4.6 Change Request regime

4.6.1 Change Requests

Once a specification has been approved by the TSG and version x.0.0 (where x >= 3, corresponding to the Release - see table 4) has been produced, it shall be considered to be under change control. Any technical change which may be identified for inclusion in the specification from this point on shall be accomplished by means of a Change Request (CR).

Every CR shall be justified by showing the Work Item to it applies: the agreed code for the Work Item (see http://www.3gpp.org/ftp/Specs/html-info/GanttChart-Level-2.htm) shall be shown in the appropriate field on the CR cover sheet. Occasionally, it may be appropriate to show two or more Work Items on the same CR. See clause 6 for further information on Work Items. (Exception: R99 UTRAN was developed as a whole without the use of individual Work Items; thus CRs covering R99 UTRAN functionality theoretically need not bear a WI code. However, any modifications of R99 functionality in the radio access network will almost certainly be minor, and thus **shall** bear the work item code TEI, "small technical enhancements and improvements")

A CR may be raised by any individual and brought to the attention of the responsible Working Group. If the change is agreed by the WG, the WG Secretary shall allocate a unique (for that specification) reference number to the CR (if this has not already been done prior to WG agreement), and shall cause its details to be entered into a CR database maintained by the Support Team and made available on the 3GPP file server. CR numbers shall not be re-used, even if a CR is ultimately rejected by the TSG. The TSG Secretary shall collate all CRs approved by the WGs of that TSG and shall bring them to the TSG for approval. For specifications which are directly under the control of a TSG, the CR shall be allocated a number and brought directly to the attention of the TSG by the TSG Secretary.

Following approval at TSG level, the Support Team person responsible for the specification shall edit the original specification to incorporate the changes of all Change Requests approved by the TSG. The new version of the specification shall then be made available on the 3GPP file server.

A Change Request shall relate to a specific version of a specification. A CR may be revised by the responsible Group; thus care shall be taken that the latest revision of a CR is presented for approval and subsequently implemented.

The TSG should approve, reject or postpone a CR in its entirety (after revision, if necessary). That is, the modifications proposed by the CR should either be accepted without change, or unconditionally rejected. For ease of management, a single Change Request should therefore pertain to a single technical topic only. Each topic can thus be cleanly accepted or rejected by the TSG.

Where two or more CRs pertain to the same (version of a) specification, the responsible Group shall check for potential interaction amongst those CRs to ensure that, if all are approved by the TSG, each is implementable without contradicting any other.

The TSG Secretary shall record the TSG's decisions (see table 5) on each CR in the meeting report.

[…]

4.10.2 Mirror Change Requests

When a Group produces a Change Request correcting an error in an earlier Release of a specification, it shall check whether the same change also needs to be made to later Releases of the specification. Changes which are corrective or clarifying in nature will generally be applicable to such other versions.

Where it is determined that several Releases are affected, an (independently numbered) Change Request shall be created for *each such affected version* of the specification. Such CRs are termed "mirror Change Requests". The principal CR and its related mirror CRs should be grouped together for the purpose of presentation to the TSG (unless some other grouping is more logical).

The TSG shall approve (or postpone or reject) a CR to a given Release together with the corresponding mirror CRs to later Releases. This will provide consistency between Releases.

See also subclause 4.6.2.

The Work Item code shown on a set of CRs making the same correction in several Releases shall correspond to the Work Item for which the text being corrected was originally formulated. This will be a Work Item of the earliest Release being changed. The mirror CRs for specifications of the later Releases (category A CRs) shall bear *the same* Work Item code (since the correction pertains to the specification of the same functionality).

Exceptionally, for relatively minor corrections, it may be decided not to correct early Releases, but to confine the correction to later Releases. Nevertheless, the Work Item code used for the CRs shall relate to the aegis covering the original text (where this can be identified). For example, an error is found in specification 23.456 relating to functionality introduced in Rel-4 under work item XYZ. Because the error is relatively minor, to avoid destabilizing Rel-4, it is decided only to correct the text in Rel-5 and Rel-6 only, and not to correct it in Rel-4. The Rel-5 CR is category F and the Rel-6 CR is category A. Both CRs bear the (Rel-4) Work Item code XYZ. In addition, the Rel-5 CR may also bear the WI code TEI5 and the Rel-6 one TEI6.