3GPP TSG-SA Meeting #23
Seoul, Korea, 7-10 June 2004

Tdoc ⌘SP-040472

CR-Form-v7

CHANGE REQUEST

⌘ **21.900** **CR** **21** ⌘ **rev** **-** ⌘ Current version: **6.1.1** ⌘

*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:	⌘	Introduction of "Early Implementation" process
Source:	⌘	Nortel Networks
Work item code:	⌘	TEI_6
Date:	⌘	9/6/2004
Category:	⌘	**B**
Release:	⌘	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:	⌘	3GPP SA#24 agreed to introduce a process to improve the documentation provided for selected features that are suitable for "early implementation" (see SP040235). This change updates 21.900 to include a description of this process.
Summary of change:	⌘	• A definition of "early implementation is introduced" • An introduction to the early implementation concept is added to the overview of release mechanisms • A description of early implementation impacts on the process for creation of work items is introduced. • A detailed explanation of the early implementation documentation process and improve WID status tracking is introduced.
Consequences if not approved:	⌘	No early implementation process in 3GPP. Without this process it will continue to be hard to make reliable early implementations of 3GPP features. This will lead to mismatches between the 3GPP processes and the market requirements which often want new features delivered quickly (ie before completion of their release, or on the basis of a platform based on an older release).

Clauses affected:	⌘	2, 4.10.3.5, 6.1, 6.4.4, 6.5

Other specs affected: ⌘	Y	N		⌘
		X	Other core specifications	
		X	Test specifications	
		X	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/specs/CR.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://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 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.

2 Definitions and abbreviations

For the purposes of the present document, the following terms and those in 3GPP TR 21.905 apply.

building block: sub-division of a feature, representing a coherent set of technical functionality which would generally be expected to reside in a single system element.

change control: procedure whereby proposed modifications to a specification are presented for approval to the TSG as formal Change Requests.

closed: specification status in which no changes of any kind to the specification are permitted.

Change Request (CR): formal proposal presented on a standard form to modify a specification which is under change control.

draft: specification status prior to change control, in which changes may be made without formal Change Requests.

early implementation: implementation of a particular feature before the release that contains that feature is completed, or implementation of a particular feature on a platform of a release earlier ~~that~~than the release that contains the feature.

feature: new or substantially enhanced functionality which represents added value to the existing system.

frozen: specification status in which only essential corrections are permitted.

Group: TSG or TSG Sub-Group.

major version: For version x.y.z of a specification, x is called the major version.

Example: For version 3.2.0 of a specification, the major version is 3.

specification: generic term standing for Technical Specification and Technical Report.

TSG: Technical Specification Group.

TSG change control: specification status in which the Technical Specification Group is responsible for approval of Change Requests.

TSG Sub-Group: Working Group or subgroup of a Working Group or of a Sub-Group.

Working Group (WG): official subgroup of a TSG reporting to that TSG.

WG Change Control: specification status in which the Working Group is responsible for agreeing Change Requests for submission to the TSG for approval.

version: unique identifier in the form x.y.z for a specification at a given point in time.

Example: version 3.12.3.

withdrawn: specification status in which the given version of the specification no longer belongs to the appropriate set of valid specifications.

Work Item (WI): description of an enhancement to a technical area, which may be categorized as feature, building block or work task.

Work Item description (WID): description of a Work Item in a standard Work Item Description sheet.

work task: sub-division of a building block, representing a self-contained, well-scoped and well-scheduled item of work.

Next Changed Section

4.10.3.5 Early implementation of features

3GPP may identify certain features as being suitable for "early implementation".

Additional documentation is provided for early implementation features (see subclause 6.4.4).

All documentation for early implementation features is contained in the release where the feature is introduced. The status or specification of older releases shall not be changed by the introduction of early implementation features.

Next Changed Section

6.1 Creation of a Work Item

When an enhancement of the standard is considered desirable a delegate or delegation may make a proposal by submitting a Work Item Description sheet to the relevant TSG or TSG WG:

- For new services, features or functions, the TSG responsible for Services and System Aspects is the relevant TSG. This TSG shall assign prime and, if necessary, secondary responsible TSGs for the corresponding work items.
- For pure performance enhancements, other TSG WGs may be responsible (the test specifications are normally not seen as independent work items).

The relevant TSG WG should study and refine the WI sheet before passing it on to the TSG for adoption.

No substantial work shall commence in a TSG WG prior to a decision of the responsible TSG.

When a new WID is created the working group shall complete the information on early implementation to show the possible requirement for early implementation. Where WI~~D~~s are part of the same parent feature, the working groups shall cooperate to keep this information consistent. If early implementation is considered, an "early implementation technical report" shall be created which shall be included in the list of impacted documents. Where several work items are part of the same parent then a common early implementation technical report may be shared between them.

The actual WI description sheets to be used and guidance on how to apply them shall be distributed by the Support Team.

The TSG shall not approve a WI unless the Work Item Description (WID) sheet has been properly filled in to the degree possible.

The Support Team shall maintain a database of work items, and make it available on the 3GPP file server.

A work item normally implies the creation of new specification and Change Requests to existing specifications.

Next Changed Sections

6.4.4 Early implementation

Where a feature is a candidate for early implementation the deliverables shall include an early implementation technical report. The technical report shall give guidance on how to perform early implementation of a work item. This report shall not define any new technical requirements. It is there to help implementers identify which parts of the specifications are relevant to the work item and how they should be handled when early implementation is performed.

The early implementation technical report shall be identified in the list of impacted documents in the WID. The early implementation technical report is part of the same release as the feature to which is relates.

Where a single early implementation feature consists of several work items then the number of different TRs should be minimised. The aim shall be for a single report to be written for the appropriate highest level work item (typically the feature level). However, flexibility should ~~is~~be left to take account of different ways work items may be structured

Work on the early implementation technical report shall begin with the identification of the requirements for early implementation.

The contents of the early implementation technical report shall be developed in parallel to the overall progress on standardisation of the work item. The responsible working groups shall keep the report up to date – particularly the ~~sections~~clauses "specification impacts" and "Early Implementation Status" which must be completed before finalisation of the WI~~D~~ and maintained if they are subsequently impacted by any essential corrections ~~subsequently~~.

6.5 ~~Completion of Work Items~~Status tracking of work items

The status of each work item shall be tracked and recorded throughout its life. The status may take the following values:

Status	**Description**
Not approved	This is a draft work item which has not yet been approved by a TSG
Approved and work in progress	This work item has been approved by a TSG. Work on the work item is in progress in the relevant working groups
Approved and frozen	This work item has been approved by a TSG. Work on the work item has been completed and the work item is frozen. Only essential changes are permitted using this work item code.
Completed	This work item has been approved by a TSG. No further work on this work item is taking place. No further changes are permitted using this work item code.
~~Deleted~~Stopped	Work on this work item has been stopped without the work item being completed. No further changes are permitted using this work item code.

Table 6.5a Status values of work item

When all necessary modifications for a given Work Item (or group of Work Items) are completed, and all the corresponding new specifications and Change Requests have been approved and released, then the Work Item may be officially closed.

End of Changes