

Source: TSG-T  
Title: Content of Release 1999 from TSG-Terminals  
Document for: Information, Discussion  
Agenda Item: 6.3.4

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The present document contains:

- Status overview of the TSG-T deliverables for Release 99 after TSG-T#6 in December 1999
  - Release 99 Submission forms
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## Status overview of TSG-T deliverables for R99 (Dec 99)

### WG T1 Mobile Terminal Conformance Testing

Reference	Title	Under Change Control	R99 Completion date	Submission Form attached
TS 34.108	Common Test Environments for User Equipment (UE) Conformance Testing	No	06-2000	Yes
TS 34.109	Terminal Logical Test Interface	No	06-2000	Yes
TS 34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	No	03-2000	Yes
TS 34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	No	06-2000	Yes
TS 34.123-1	Mobile Station (MS) protocol conformance specification; Part 1: Protocol conformance specification (3G TS 34.123-1)	No	06-2000	Yes
TS 34.123-2	Mobile Station (MS) Protocol/RF/EMC conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification (3G TS 34.123-2)	No	06-2000	Yes
TS 34.123-3	Mobile Station (MS) protocol conformance specification; Part 3: Abstract Test Suites (ATS) (3G TS 34.123-3)	No	03-2001	Yes
TR 34.124	Electro-Magnetic Compatibility (EMC) for terminal equipment	No	03-2000	Yes

### WG T2 Mobile Terminal Services and Capability

Reference	Title	Under Change Control	R99 completion date	Submission Form attached
	Advanced Cell Broadcast	No	little input	No
	Alternatives to AT commands	No	no input	No
TR 21.904	UE Capability Requirements	No	03-2000	Yes
TR 21.910	Multi-mode UE issues	No	03-2000	Yes
TS 23.140	Multimedia Messaging Service; stage 2/3	No	03-2000	Yes
TR 22.945	Study on provisioning of fax in GSM and UMTS	Yes		n.a.
TS 23.038	Alphabets and language-specific information	Yes	03-2000	Yes
TS 23.039	Interface protocols for the connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)	Yes		n.a.
TS 23.040	Technical realization of the Short Message Service (SMS)	Yes	03-2000	Yes
TS 23.041	Technical realisation of Cell Broadcast Service (CBS)	Yes	03-2000	No
TS 23.042	Compression algorithm for text messaging services	Yes		n.a.
TS 23.057	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	Yes		n.a.
TS 27.005	Use of Data Terminal Equipment - Data Circuit terminating; Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	Yes		n.a.
TS 27.007	AT command set for 3GPP User Equipment (UE)	Yes	03-2000	No
TS 27.010	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	Yes	03-2000	No
TS 27.103	Wide Area Network Synchronisation	Yes		n.a.
TR 27.901	Report on Terminal Interfaces - An Overview	Yes		n.a.
TR 27.903	Discussion of Synchronisation Standards	Yes		n.a.
<b>TR 34.907</b>	Report on electrical safety requirements and regulations	Yes		n.a.
TR 34.925	Specific Absorption Rate (SAR)	Yes		n.a.

### WG T3 USIM

Reference	Title	Under Change Control	R99 Completion date	Submission Form attached
TS 21.111	USIM and IC Card Requirements	Yes		n.a.
TS 31.101	UICC-Terminal Interface; Physical and Logical Characteristics	Yes	03-2000	Yes
TS 31.102	Characteristics of the USIM Application	Yes	03-2000	Yes
TS 31.110	UICC Application Identifiers	Yes	03-2000	Yes
TS 31.111	USIM Application Toolkit (USAT)	No	03-2000	Yes
TS 31.120	Terminal tests for the UICC Interface	No	06-2000	No
TS 31.121	UICC Test Specification	No	06-2000	No

# TR 21.904 UE Capability Requirements

## Release 1999 Submission form

<b>Work Area / Item:</b>		UE Capability Requirements			
<b>Affects:</b>	UE/MS: Yes	CN: No	UTRAN: No	<b>Compatibility Issues:</b>	Yes: No:
<b>Expected Completion Date:</b>	15 March '00				
<b>Services impacted:</b>	None				
<b>Specifications affected:</b>	3G TR 21.904 "UE Capability Requirements", Completion of TS34.123-2 Mobile Station Conformance Specification, Part 2 ICS (Implementation Conformance Statement) may be affected.				
<b>Tasks within work which are not complete:</b>		<p>More comprehensive requirements for Terminal Service Implementation Capability should be added. It includes those areas of</p> <ul style="list-style-type: none"> <li>- FAX</li> <li>- MeXE, AT command, MMS etc.</li> <li>- Security</li> </ul>			
<b>Consequences if not included in Release 1999:</b>		Completion of TS34.123-2 Mobile Station Conformance Specification, Part 2 ICS (Implementation Conformance Statement) could be delayed.			
<b>Accepted by TSG#</b>		<b>for late inclusion in Release 1999:</b>			

# TR 21.910 Multi-mode UE issues

## Release 1999 Submission form

<b>Work Area / Item:</b>		Multi-mode UE			
<b>Affects:</b>	<b>UE/MS: Yes</b>	<b>CN: Yes</b>	<b>UTRAN:</b>	<b>Compatibility Issues: Yes:</b>	<b>No:</b>
<b>Expected Completion Date:</b>		March 2000			
<b>Services impacted:</b>		None			
<b>Specifications affected:</b>		<p>3G TR 21.910 "Multi-mode UE issues",</p> <p>As a result/conclusion of the completed report, changes to other specifications may be required. It has still to be investigated what specifications should be altered and what the changes have to be.</p>			
<b>Tasks within work which are not complete:</b>			<p>Identification and evaluation of ongoing work and the completion of some scenarios.</p> <p>Identification of additional work to be done within 3GPP.</p>		
<b>Consequences if not included in Release 1999:</b>			<p>The ideas for an efficient usage of multi-mode UEs, collected in the scenarios, will be delayed even longer.</p> <p>A summary of all work ongoing in this area will not be available which will make it even more difficult to finalise the work in time.</p>		
<b>Accepted by TSG#</b>		<b>for late inclusion in Release 1999:</b>			

# TS 23.140 Multimedia Message Service (TS 23.038, TS 23.040)

## Release 1999 Submission form

<b>Work Area / Item:</b>		MMS (Multimedia Messaging Service)			
<b>Affects:</b>	UE/MS: X	CN: X	UTRAN:	Compatibility Issues:	Yes: X    No:
<b>Expected Completion Date:</b>		March 2000			
<b>Services impacted:</b>		MMS			
<b>Specifications affected:</b>		3G TS 23.140, 3G TS 23.038, 3G TS 23.040			
<b>Tasks within work which are not complete:</b>		<p><b>3G TS 23.140:</b></p> <ul style="list-style-type: none"> <li>- Set of supported media formats</li> <li>- MMS addressing scheme</li> <li>- Interface: MMS Relay – MMS Server</li> <li>- Interworking between MMS Relays</li> <li>- Availability of the MMS User Agent</li> <li>- Consider latest comments on compatibility with Internet world and on service and implementation flexibility (TP-99266)</li> </ul> <p><b>3G TS 23.038 and 3G TS 23.040:</b></p> <ul style="list-style-type: none"> <li>- SMS enhanced message content</li> </ul>			
<b>Consequences if not included in Release 1999:</b>		<p>Early introduction and fast acceptance of MMS almost impossible;</p> <p>Inclusion of 3G TS 23.140 in Release 99 is requested e.g. from SERG#36</p>			
<b>Accepted by TSG#</b>		<b>for late inclusion in Release 1999:</b>			

# TS 31.101 UICC-Terminal Interface; Physical and Logical Characteristics

## Release 1999 Submission form

<b>Work Area / Item:</b>		31.101 UICC-Terminal Interface; Physical and Logical Characteristics		
<b>Affects:</b>	UE/MS:yes	CN:no	UTRAN:no	<b>Compatibility Issues: Yes: X No:</b>
<b>Expected Completion Date:</b>		March 2000		
<b>Services impacted:</b>				
<b>Specifications affected:</b>		31.102, 31.111		
<b>Tasks within work which are not complete:</b>		<ol style="list-style-type: none"> <li>1 Security attributes need to be finalised.</li> <li>2 USAT incorporation</li> <li>3 Coding of some File Control Information (FCI).</li> <li>4 Definition of application session initialisation / termination procedure</li> </ol>		
<b>Consequences if not included in Release 1999:</b>		potential interoperability problems		
<b>Accepted by TSG: T #6</b>		<b>for late inclusion in Release 1999:</b>		

# TS 31.102    Characteristics of the USIM Application

## Release 1999 Submission form

<b>Work Area / Item:</b>		3G TS 31.102 Characteristics of the USIM Application		
<b>Affects:</b>	UE/MS: Yes	<b>CN:</b>	<b>UTRAN:</b>	<b>Compatibility Issues:    Yes: X    No:</b>
<b>Expected Completion Date:</b>		March 2000		
<b>Services impacted:</b>				
<b>Specifications affected:</b>		31.111		
<b>Tasks within work which are not complete:</b>		<ol style="list-style-type: none"> <li>1. FDN /BDN     Definition of EFs and procedures depending on precise service requirements</li> <li>2. Phone Book Procedures             <ul style="list-style-type: none"> <li>- finalisation of procedures</li> <li>- E-mail addresses. The EF and the procedures have to be added to the phone book description.</li> </ul> </li> <li>3. Storage of network related parameters depending on definition by RAN2</li> <li>4. Introduction of a 2G specific access control class file depending on service requirements of S1.</li> <li>5. Network Selection Issues (2 HPLMN lists)     Depending on service requirements of S1</li> <li>6. Usage, coding and location of CCP depending requirements of N1</li> <li>7. Incorporate security attributes from 31.101</li> <li>8. Review of SFI (Short File Identifiers)</li> </ol>		
<b>Consequences if not included in Release 1999:</b>		Several R99 services will not be able to be supported.		
<b>Accepted by TSG: T #6</b>		<b>for late inclusion in Release 1999:</b>		

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# TS 31.110 Numbering system for telecommunication IC card applications

## Release 1999 Submission form

<b>Work Area / Item:</b>	Numbering system for telecommunication IC card applications - 3G TS 31.110			
<b>Affects:</b>	<b>UE/MS:</b> Yes	<b>CN:</b>	<b>UTRAN:</b>	<b>Compatibility Issues:</b> <b>Yes: X</b> <b>No:</b>
<b>Expected Completion Date:</b>	March 2000			
<b>Services impacted:</b>	USIM and UICC Application selection			
<b>Specifications affected:</b>	3G TS 31.110, 3G TS 31.101, 3G TS 31.102, 3G TS 31.111			
<b>Tasks within work which are not complete:</b>	Definition of the Application provider field coding for the UICC, USIM and Toolkit Application identifier.			
<b>Consequences if not included in Release 1999:</b>	The ME will not be able to identify the version of the USIM applications, and so is not able to distinguish between a Release 1999 and a Release 2000.			
<b>Accepted by TSG: T #6</b>		<b>for late inclusion in Release 1999:</b>		

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# TS 31.111 USIM Application Toolkit (USAT)

## Release 1999 Submission form

<b>Work Area / Item:</b>		USAT (3G TS 31.111)			
<b>Affects:</b>	<b>UE/MS:</b> YES	<b>CN:</b>	<b>UTRAN:</b>	<b>Compatibility Issues:</b>	<b>Yes:</b> X <b>No:</b>
<b>Expected Completion Date:</b>		March 2000			
<b>Services impacted:</b>		USAT			
<b>Specifications affected:</b>					
<b>Tasks within work which are not complete:</b>		<ol style="list-style-type: none"> <li>1. Define the interaction between Call Control and FDN/BDN. This relies on the specification of service requirements for the FDN and BDN mechanisms.</li> <li>2. Define TLVs for 3G radio-based parameters. This affects the Provide Local Information command.</li> <li>3. Bring 31.111 up to date with latest GSM 11.14 release 99 when available in February (currently 31.111 is aligned with version 8.1.0).</li> </ol>			
<b>Consequences if not included in Release 1999:</b>		<ol style="list-style-type: none"> <li>1. Call Control does not fully meet service requirement.</li> <li>2. Location-based USAT services not available on UTRAN.</li> <li>3. Transfer from GSM not complete.</li> </ol>			
<b>Accepted by TSG: T #6</b>		<b>for late inclusion in Release 1999:</b>			

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# TS 34.108 Common Test Environments for UE Conformance Testing

## Release 1999 Submission form

<b>Work Area / Item:</b>	UE Test specification 3G TS 34.108 Common Test Environments for User Equipment (UE) Conformance Testing			
<b>Affects:</b>	<b>UE/MS:</b> Yes	<b>CN:</b> No	<b>UTRAN:</b> No	<b>Compatibility Issues:</b> Yes: No: <b>X</b>
<b>Expected Completion Date:</b>	June 2000			
<b>Services impacted:</b>	None			
<b>Specifications affected:</b>	TS 34.121, TS 34.123-1, TS 34.122, TS 34.124			
<b>Tasks within work which are not complete:</b>	First draft not available yet. Work item proposal presented at this meeting.			
<b>Consequences if not included in Release 1999:</b>	Not possible to perform conformance tests as specified in TS 34.121, TS 34.122, TS 34.123-1 and TS 34.124.			
<b>Accepted by TSG#</b> 6	<b>for late inclusion in Release 1999:</b>			

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### Abstract of document:

TS 34.108 will contain definitions of reference conditions and test signals, default parameters, reference Radio Bearer configurations, common requirements for test equipment and generic set-up procedures for use in UE conformance tests.

### Contentious Issues:

The content of this specification is directly related to common contents in RF and Signalling tests. (TS 34.123-1, TS 34.121 and TS 34.122).

# TS 34.109 Terminal Logical Test Interface; Special conformance testing functions

## Release 1999 Submission form

<b>Work Area / Item:</b>	UE Test specification 3G TS 34.109 Terminal Logical Test Interface; Special conformance testing functions			
<b>Affects:</b>	<b>UE/MS:</b> Yes	<b>CN:</b> No	<b>UTRAN:</b> No	<b>Compatibility Issues:</b> Yes: No: <b>X</b>
<b>Expected Completion Date:</b>	June 2000			
<b>Services impacted:</b>	None			
<b>Specifications affected:</b>	TS 34.121, TS 34.123-1, TS 34.122			
<b>Tasks within work which are not complete:</b>	<b>Further work is mainly necessary in:</b> <ul style="list-style-type: none"><li>- Identifying and specifying special testing functions for signalling tests</li><li>- Test loop definition (to be further detailed)</li><li>- TDD test loop needs to be defined</li></ul>			
<b>Consequences if not included in Release 1999:</b>	Not possible to perform conformance tests as specified in TS 34.121, TS 34.122 and TS 34.123-1.			
<b>Accepted by TSG#</b> 6 <b>for late inclusion in Release 1999:</b>				

### Abstract of document:

The present document specifies for User Equipment (UE), for 3<sup>rd</sup> Generation WCDMA system, those ME functions which are required for conformance testing purposes (e.g. test loops). These functions are activated via the radio interface.

### Contentious Issues:

The content of this specification is directly related to which testing functions are needed by RF and Signalling tests. (TS 34.123-1, TS 34.121 and TS 34.122).

No contributions have been submitted for TDD test functions.

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# TS 34.121 Terminal Conformance Specification; Radio transmission and reception (FDD)

## Release 1999 Submission form

<b>Work Area / Item:</b>		UE Test specification TS 34.121 Terminal Conformance Specification; Radio transmission and reception (FDD)				
<b>Affects:</b>	UE/MS: Yes	<b>CN:</b>	<b>UTRAN:</b>	<b>Compatibility Issues:</b>	<b>Yes:</b>	<b>No: X</b>
<b>Expected Completion Date:</b>	March '00					
<b>Services impacted:</b>	None					
<b>Specifications affected:</b>	None					
<b>Tasks within work which are not complete:</b>			1. Transmitter Characteristics (open issues) 2. Performance Requirements			
<b>Consequences if not included in Release 1999:</b>			Some RF conformance tests will not be available.			
<b>Accepted by TSG</b>	6	<b>for late inclusion in Release 1999:</b>				

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### Abstract of document:

Containing test specifications about

- 1) Transmitter Characteristics
- 2) Receiver Characteristics
- 3) Performance Requirements

Core specification for this document:

- 1) TS 25.101 UE Radio transmission and Reception (FDD)
- 2) TS 25.103 RF Parameters in Support of Radio Resource Management

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### Contentious Issues:

- 1) Core specification for RRM is unstable. RAN WG4 decided the replacement of TS 25.103 with TS 25.133(new). The scope of TS 25.133 and its impact for TS 34.121 is unclear.

# TS 34.122 Terminal Conformance Specifications; Radio transmission and reception (TDD)

## Release 1999 Submission form

<b>Work Area / Item:</b>		UE Test specification TS 34.122 Terminal Conformance Specifications; Radio transmission and reception (TDD)				
<b>Affects:</b>	UE/MS: Yes	<b>CN:</b>	<b>UTRAN:</b>	<b>Compatibility Issues:</b>	<b>Yes:</b>	<b>No: X</b>
<b>Expected Completion Date:</b>		June '00				
<b>Services impacted:</b>		None				
<b>Specifications affected:</b>		None				
<b>Tasks within work which are not complete:</b>			<ol style="list-style-type: none"> <li>1. Performance Requirements</li> <li>2. Cell selection &amp; reselection testing, coverage of 25.123 core specifications</li> </ol>			
<b>Consequences if not included in Release 1999:</b>			Some RF conformance tests will not be available.			
<b>Accepted by TSG</b>	6	<b>for late inclusion in Release 1999:</b>				

### Abstract of document:

Terminal Conformance Specifications; Radio transmission and reception (TDD)

Containing test specifications about

- Transmitter Characteristics
- Receiver Characteristics
- Performance Requirements

Core specification for this document are:

- TS25.102 (UTRA (UE) Radio Transmission and Reception)
- TS 25.123 (Requirements for Support of Radio Resource Management (TDD))

Serving specifications for this document are:

- TS34.109 (Terminal logical test interface (FDD/TDD))
- TS 34.108 (Common Test Environment)

Peer specifications with respect to this document are:

- TS 34.121 (Terminal Conformance Specifications; Radio Transmission and Reception (FDD))
- TS 25.142 (Base Station Conformance Testing (TDD))
- TS 25.141 (Base Station Conformance Testing (FDD))

### Contentious Issues:

No serious contention issues are known.

The scope of the document, currently comprising

Transmitter Characteristics, Receiver Characteristics and Performance Requirements will be extended in future due to acceptance of TS 25.123 as a core specification.

# TS 34.123-1 UE conformance specification. Part 1: Protocol conformance specification

## Release 1999 Submission form

<b>Work Area / Item:</b>		UE Test specification TS 34.123-1 V1.0.0 User Equipment (UE) conformance specification. Part 1: Protocol conformance specification			
<b>Affects:</b>	<b>UE/MS: YES</b>	<b>CN: NO</b>	<b>UTRAN: NO</b>	<b>Compatibility Issues:</b>	<b>Yes:</b> <b>No: X</b>
<b>Expected Completion Date:</b>		<b>June 2000</b>			
<b>Services impacted:</b>		<b>None</b>			
<b>Specifications affected:</b>		<b>TS 34.123-2</b>			
<b>Tasks within work which are not complete:</b>			<b>Tasks are in various stages of completion. Detailed status report is attached</b>		
<b>Consequences if not included in Release 1999:</b>			<b>Interoperability of User Equipment</b>		
<b>Accepted by TSG# 6 for late inclusion in Release 1999:</b>					

### Abstract of document:

This specification is the first part of a multi-part specification describing in prose a suite of conformance tests for 3<sup>rd</sup> Generation User Equipment (UE). The tests are intended to ensure that User Equipment for 3GPP systems conform to the relevant 3GPP Technical Specifications.

The other parts of the multi-part specification are TS 34.123-2, which contains a pro-forma for the Implementation Conformance Statement (ICS), and TS 34.123-3, which contains a detailed and executable description of the test cases written in a standard testing language, TTCN.

### Contentious Issues:

Timely completion of this specification depends upon the availability of the core specifications for which it provides conformance tests.

Specifications with the largest impact are TS 24.008, TS 24.331, TS 24.321 and TS 24.322.

# TS 34.123-2 UE conformance specification; Part 2: ICS proforma specification

## Release 1999 Submission form

<b>Work Area / Item:</b>		UE Test Specification TS 34.123-2 User Equipment (UE) conformance specification. Part 2: ICS proforma specification			
<b>Affects:</b>	<b>UE/MS:</b> Yes	<b>CN:</b> No	<b>UTRAN:</b> No	<b>Compatibility Issues:</b>	Yes: No: <b>X</b>
<b>Expected Completion Date:</b>		June 00			
<b>Services impacted:</b>		None			
<b>Specifications affected:</b>		None			
<b>Tasks within work which are not complete:</b>			Further work is mainly necessary in: - Service capabilities - Service implementation capabilities  This work will be basically done following the work in TR 21.904.  The applicability table will be also completed with information from other T1 specifications.		
<b>Consequences if not included in Release 1999:</b>			Interoperability of User equipment.		
<b>Accepted by TSG# 6 for late inclusion in Release 1999:</b>					

### Abstract of document:

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a telecommunication specification. Such a statement is called an Implementation Conformance Statement (ICS).

The objective of TS 34.123-2 is to provide the ICS proforma for 3G User Equipment. This ICS is to be used for RF, protocol and EMC testing.

This TS directly depends on TR 21.904 that is being elaborated by TSG T WG2.

### Contentious Issues:

The content of this specifications is directly related to the content and stability of TR 21.904.

# TS 34.123-3 UE conformance specification. Part 3: Abstract test suite

## Release 1999 Submission form

<b>Work Area / Item:</b>	UE Test Specification TS 34.123-3 User Equipment (UE) conformance specification. Part 3: Abstract test suite				
<b>Affects:</b>	<b>UE/MS: YES</b>	<b>CN: NO</b>	<b>UTRAN: NO</b>	<b>Compatibility Issues:</b>	<b>Yes:</b> <b>No: X</b>
<b>Expected Completion Date:</b>	<b>March 2001</b>				
<b>Services impacted:</b>	<b>None</b>				
<b>Specifications affected:</b>	<b>None</b>				
<b>Tasks within work which are not complete:</b>	<b>Work not started.</b>				
<b>Consequences if not included in Release 1999:</b>	<b>Interoperability of User Equipment</b>				
<b>Accepted by TSG#</b>	<b>6</b>	<b>for late inclusion in Release 1999:</b>			

### Abstract of document:

This specification is the third part of a multi-part specification containing abstract test suites (ATS), written in a standard testing language, TTCN, for conformance tests for 3<sup>rd</sup> Generation User Equipment (UE). The tests are intended to ensure that User Equipment for 3GPP systems conform to the relevant 3GPP Technical Specifications.

The other parts of the multi-part specification are TS 34.123-1, which contains a prose description of each test case, and TS 34.123-2, which contains a pro-forma for the Implementation Conformance Statement (ICS).

### Contentious Issues:

Timely completion of this specification depends upon the availability of a funded team to provide key parts of the TTCN abstract test suite early in 2000.



# TS 34.124 Electro-Magnetic Compatibility (EMC) for Terminal equipment

## Release 1999 Submission form

<b>Work Area / Item:</b>		UE Test Specification TS 34.124 Electro-Magnetic Compatibility (EMC) for Terminal equipment				
<b>Affects:</b>	UE/MS: <b>Yes</b>	<b>CN:</b>	<b>UTRAN:</b>	<b>Compatibility Issues:</b>	<b>Yes:</b>	<b>No: X</b>
<b>Expected Completion Date:</b>		March 2000				
<b>Services impacted:</b>		None				
<b>Specifications affected:</b>		Not known				
<b>Tasks within work which are not complete:</b>			Editing, updating terminology, references etc.  Referencing to generic call set-up procedures and changes in the document for alignment with TS 34.108.			
<b>Consequences if not included in Release 1999:</b>			?			
<b>Accepted by TSG# 6</b>			<b>for late inclusion in Release 1999:</b>			

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**Abstract of document:**

EMC testing of terminals.

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**Contentious Issues:**

Not known