3GPP TSG-T (Terminals) Meeting #12
Stockholm, Sweden, 13 - 15 June, 2001

Tdoc TP-010154
(revised version of TP-010123 and TP-010150)

Source: TSG T1

Title: T1 Release 4 Work Items

Document for: Approval

The following Release 4 work items are presented for approval.

A summary is given below. All current and draft Rel 4 and 5 WI descriptions can be found in TSG T1 permanent reference document T1-06.

Note: the work item T1-06_10 has been split in to 2 work items (10 and 35) to cover 1800MHz and 1900MHz explicitly. (TP-010150)

Title for T1-06_10 Title corrected to show only UMTS 1800. (TP-010154)

T1 WI	Title	Supporters	Work Starts	v4.0.0
T1-06_3	Conformance Test Aspects - improvements in Radio Interface	Building Block only, TSG T1		
T1-06_10	Testing UMTS 1800 (SIG/RF)	Qualcomm, Motorola, Nortel, Samsung, Blu, Hutchinson 3G		TSG T#15, Mar 02, RF & pt1 TSG T#19, Mar 03, pt3
T1-06_11	Conformance Test Aspects - Low Chip Rate TDD	Building Block only, TSG T1		
T1-06_13	Testing Layer 2 and layer 3 protocol aspects (SIG)	Anritsu, Siemens, Ericsson, NTTDoCoMo, Motorola, Rohde & Schwarz		TSG T#15, Mar 02, pt1 TSG T#20, Jun 03 pt3
T1-06_14	LCR_TDD, Testing RF Radio Transmission and Reception (RF)	Rohde & Schwarz, Siemens, Fujitsu, NTT DoCoMo, Motorola	already started	TSG T#14, Dec 01
T1-06_16	Conformance Test Aspects - RAN Improvements	Building Block only, TSG T1		
T1-06_23	Conformance Test Aspects - Emergency call enhancements	Building Block only, TSG T1		
T1-06_25	Testing Emergency call enhancements for CS based calls (SIG)	Nokia, Ericsson, Sony, NTTDoCoMo, Sharp		TSG T#14, Dec 01, pt1 TSG T#15, Mar 02, pt3
T1-06_26	Miscelleneous UE Conformance Testing Activities	Building Block only, TSG T1		
T1-06_27	Optimisation of Test Time, RF Aspects (FDD) (RF)	Agilent, Rohde & Schwarz, Anritsu, Nokia, Qualcomm	already started	TSG T#15, Mar 02
T1-06_28	Optimisation of Test Time, RF Aspects (TDD) (RF)	Agilent, Rohde & Schwarz, Anritsu and Nokia	already started	TSG T#15, Mar 02

T1-06_29	Extensions to R99 Test cases (SIG), covers the completion of FDD prose and TTCN	Nokia, Siemens, Sony, NTTDoCoMo, Denso, (Sharp), Motorola		TSG T#15, Mar 02, pt1 TSG T#17, Sept 02, pt3
T1-06_32	Maintenance of the R99 test specification and test cases (SIG)	Nokia, Siemens, Sony, NTTDoCoMo, Denso, Motorola, Ericsson, Anritsu		ongoing
T1-06_33	Creation of the Release 99 TCs for TDD, prose and TTCN (SIG)	Siemens, NTTDoCoMo, Nokia, Anritsu		TSG T#16, Jun 02, pt1 TSG T#18, Dec 02, pt3
T1-06_34	Testing of RAB support for RoHC	Ericsson, Sharp, Motorola, Nokia		TSG T#16, Jun 02
T1-06_35	Testing UMTS 1900 (SIG/RF)	Qualcomm, Motorola, Nortel, Samsung, Blu, Hutchinson 3G, Ericsson		TSG T#15, Mar 02, RF & pt1 TSG T#19, Mar 03, pt3

The work items in the- work plan have now been organised so that the conformance test aspects, related to each feature, are collected into a single building block. Each building block has the title 'Conformance Test Aspects –' followed by the title of the parent feature. The Work Tasks going into the Conformance Test Aspects building blocks then correspond to the other UE related work items under the parent feature.

Note: Building blocks are supported by TSG T1 collectively whereas the work tasks are required to have 4 supporting companies before they are approved by T1.

Work plan ID shown in *italics* refer to ID numbers in the T1 modified work plan and may change when added to the formal work plan.

Contents

Work Item Description

BB_T1-06_3. Conformance Test Aspects - improvements in Radio Interface

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1216	RAN_Wis_21	P_F	Improvements of Radio Interface
1839	T1-06_3	BB	Conformance Test Aspects - improvements in Radio Interface
2210	T1-06_5	S_WT	Testing improvement of inter-frequency and inter-system measurement
2211	T1-06_6	S_WT	Testing Hybrid ARQ II/III
2212	T1-06_7	S_WT	Testing Improved usage of downlink resource in FDD for CCTrCHs of dedicated type
2213	T1-06_8	S_WT	Testing Terminal Power saving features
2214	T1-06_9	S_WT	Testing DSCH power control improvement in soft handover
2215	T1-06_10	S_WT	Testing UMTS 1800/1900
1470	RAN_Wis_16	R_WI	Improvement of inter-frequency and inter-system measurement
1217	RAN_Wis_7	R_WI	Hybrid ARQ II/III
1218	RAN_Wis_17	R_WI	Improved usage of downlink resource in FDD for CCTrCHs of dedicated type
1507	RAN_Wis_11	R_WI	Terminal Power saving features
1994	RAN_Wis_37	R_WI	DSCH power control improvement in soft handover
1996	RAN_Wis_39	R_WI	UMTS 1800

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 and 5 (formerly release 2000) and therefore the test specifications must be updated to reflect these changes.

4. Objective

This work item is a building block used to collect together the conformance testing aspects related to a 3GPP feature. As such it does not require any work at this level and for this reason it is supported by TSG T1 and reported on by the T1 chairman.

All of the work of TSG T1 takes place in its subordinate Work Tasks.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	**USIM**	**ME**	**AN**	**CN**	**Others**
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11.Work item raporteurs

TSG T1 Chairman

12 Work item leadership

TSG T1

13 Supporting Companies

TSG T1

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b. See section 2, Linked work items, for relationship between this building block, its parent feature and associated work tasks

Work Item Description

WT_T1-06_10. Testing UMTS 1800 (SIG/RF)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1216	RAN_Wis_21	P_F	Improvements of Radio Interface
1839	T1-06_3	P_BB	Conformance Test Aspects - improvements in Radio Interface
2215	T1-06_10	WT	Testing UMTS 1800
1996	RAN_Wis_39	R_WI	UMTS 1800
TBD	T1-06_35	R_WI	Testing UMTS 1900
2467	RAN_Wis_?	R_WI	UMTS 1900

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced to support radio carrier frequencies of 1800MHz and other related bands, such as 1900MHz. This capability has now been designated 'release independent'. This means that this capability can be applied to UEs conforming to any release.

This will be covered in the test specifications by either adding an applicability table (or similar device) to the current version of the document, or a separate document will be created as appropriate.

It is anticipated that these test cases will be very similar, if not combined with, the test cases for UMTS1900.

4. Objective

It has been decided at WARC 00 that IMT2000 can be extended down to the 1800MHz 2G cellular band. It is also expected that other bands will be approved in the future, including 1900MHz

The objective is to provide a conformance test specification to cover these new bands that can be applied to UEs conforming to any available release.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TS34.12x Or additions to TS34.121/2	UE Conformance Specification; Radio Transmission and Reception, aspects of UMTS1800/1900 FDD	SWG RF		TSG T#14	TSG T#15	New document or applicability table in current document
TS34.12x Or additions to TS34.123	UE Conformance Specification; Protocol, aspects of UMTS1800/1900	SWG SIG		TSG T#18	TSG T#19	New Document or applicability table, will require prose and TTCN parts

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11.Work item raporteurs

Mr Kunitoshi YONEKURA, Fujitsu, Japan;
Mr Thomas MAUCKSCH, Rohde & Schwarz, Germany
Mr Dan FOX, Anritsu Ltd, UK

12 Work item leadership

TSG T1 SWGs /RF and /SIG

13 Supporting Companies

Qualcomm, Motorola, Nortel, Samsung, Blu, Hutchinson 3G

14 Classification of the WI (if known)

	Feature (go to 14a)

	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

Work Item Description

BB_T1-06_11. Conformance Test Aspects - Low Chip Rate TDD

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1222	RAN_Wis_1	P_F	Low Chip Rate TDD option
2103	T1-06_11	BB	Conformance Test Aspects - Low Chip Rate TDD
			Testing Physical Layer Combined with T1-06_14
2217	T1-06_13	S_WT	Testing Layer 2 and layer 3 protocol aspects
2218	T1-06_14	S_WT	Testing RF Radio Transmission and Reception
			Testing UE radio access capability, combined with T1-06_13
1223	RAN_Wis_26	R_WI	Physical Layer
1224	RAN_Wis_27	R_WI	Layer 2 and layer 3 protocol aspects
1225	RAN_Wis_28	R_WI	RF Radio Transmission and Reception
1227	RAN_Wis_30	R_WI	UE radio access capability

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 (formerly release 2000) and therefore the test specifications must be updated to reflect these changes.

4. Objective

This work item is a building block used to collect together the conformance testing aspects related to a 3GPP feature. As such it does not require any work at this level and for this reason it is supported by TSG T1 and reported on by the T1 chairman.

All of the work of TSG T1 takes place in its subordinate Work Tasks.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11.Work item raporteurs

TSG T1 Chairman

12 Work item leadership

TSG T1

13 Supporting Companies

TSG T1

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b. See section 2, Linked work items, for relationship between this building block, its parent feature and associated work tasks

Work Item Description

WT_T1-06_13. Testing Layer 2 and layer 3 protocol aspects (SIG)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1222	RAN_Wis_1	P_F	Low Chip Rate TDD option
2103	T1-06_11	P_BB	Conformance Test Aspects - Low Chip Rate TDD
2217	T1-06_13	WT	Testing Layer 2 and layer 3 protocol aspects
1227	RAN_Wis_30	R_WI	UE radio access capability
1224	RAN_Wis_27	R_WI	Layer 2 and layer 3 protocol aspects

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 (formerly release 2000) and therefore the test specifications must be updated to reflect these changes.

4. Objective

The objective is to prepare a conformance test specification for the signalling layers L2 and L3. Low chip rate TDD shares many similarities with full rate TDD but inevitably there will be differences.

The RAN work tasks for low rate TDD include:-

- UE procedures in idle mode
- Interlayer procedures in connected mode
- Control plane protocol aspects
- User plane protocol aspects
- mobility aspects

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.123a,b		User Equipment (UE) conformance specification; Part 1: Protocol conformance specification, Part 2: Implementation Conformance Statement (ICS) proforma specification	TSG T #15	Test specification to confirm correct signalling and operation of UEs operating low chip rate TDD mode
TS34.123c		User Equipment (UE) conformance specification; Part 3: TTCN Test Cases	TSG T #20	Develop TTCN test cases to support conformance test spec

11.Work item raporteurs

Mr Dan FOX, Anritsu Ltd, UK

12 Work item leadership

TSG T1 SWG /SIG

13 Supporting Companies

Anritsu, Siemens, Ericsson, NTTDoCoMo, Motorola, Rohde &Schwarz

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

Work Item Description

WT_T1-06_14. Testing RF Radio Transmission and Reception (RF)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1222	RAN_Wis_1	P_F	Low Chip Rate TDD option
2103	T1-06_11	P_BB	Conformance Test Aspects - Low Chip Rate TDD
2218	T1-06_14	WT	Testing RF Radio Transmission and Reception
1223	RAN_Wis_26	R_WI	Physical Layer
1225	RAN_Wis_28	R_WI	RF Radio Transmission and Reception

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 (formerly release 2000) and therefore the test specifications must be updated to reflect these changes.

4. Objective

For low chip rate TDD an number of the RF parameters change as a result of the lower chip rate, e.g. operating band width, mask, out of band emissions, blocking, etc. As a result the core specifications will change to reflect these new parameters.

This work task is to modify the RF test specifications in order to reflect these changes.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.122		Terminal Conformance Specification; Radio transmission and reception (TDD)	TSG T#14 (Dec 01) Work starts: TSG T1#10	Update test specification for TDD to reflect the changes RF parameters for low chip rate TDD.

11.Work item raporteurs

Mr Thomas MAUCKSCH, Rohde & Schwarz, Germany

12 Work item leadership

TSG T1 SWGs /RF

13 Supporting Companies

Rohde & Schwarz, Siemens, Fujitsu, NTT DoCoMo, Motorola

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

Work Item Description

BB_T1-06_16. Conformance Test Aspects - RAN Improvements

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
9	RAN_Wis_	P_F	RAN improvements
2102	T1-06_16	BB	Conformance Testing Aspects - RAN improvements
2221	T1-06_19	S_WT	Testing Node B synchronisation for TDD (Master)
2222	T1-06_20	S_WT	Testing Radio access bearer support enhancement - except Robust Header Compression
2461	T1-06_34	S_WT	Testing Radio access bearer support enhancement - Robust Header Compression
655	RAN_Wis_8	R_WI	Node B synchronisation for TDD (Master)
1472	RAN_Wis_15	R_WI	Radio access bearer support enhancement

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 and 5 and therefore the test specifications must be updated to reflect these changes.

4. Objective

This work item is a building block used to collect together the conformance testing aspects related to a 3GPP feature. As such it does not require any work at this level and for this reason it is supported by TSG T1 and reported on by the T1 chairman.

All of the work of TSG T1 takes place in its subordinate Work Tasks.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11.Work item raporteurs

TSG T1 Chairman

12 Work item leadership

TSG T1

13 Supporting Companies

TSG T1

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b. See section 2, Linked work items, for relationship between this building block, its parent feature and associated work tasks

Work Item Description

BB_T1-06_23. Conformance Test Aspects - Emergency call enhancements

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1652		P_F	Emergency call enhancements
2224	T1-06_23	BB	Conformance Test Aspects - Emergency call enhancements
1646	NP-000380	R_WI	Stage 3 for emergency calls and packet emergency calls in general
1654	NP-000379	R_WI	Emergency call enhancements for CS based calls
2225	T1-06_24	S_WT	Testing Stage 3 for emergency calls and packet emergency calls in general
2226	T1-06_25	S_WT	Testing Emergency call enhancements for CS based calls

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 and 5 and therefore the test specifications must be updated to reflect these changes.

4. Objective

This work item is a building block used to collect together the conformance testing aspects related to a 3GPP feature. As such it does not require any work at this level and for this reason it is supported by TSG T1 and reported on by the T1 chairman.

All of the work of TSG T1 takes place in its subordinate Work Tasks.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11.Work item raporteurs

TSG T1 Chairman

12 Work item leadership

TSG T1

13 Supporting Companies

TSG T1

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b. See section 2, Linked work items, for relationship between this building block, its parent feature and associated work tasks

WT_T1-06_25. Testing Emergency call enhancements for CS based calls (SIG)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1652		P_F	Emergency call enhancements
2224	T1-06_23	P_BB	Conformance Test Aspects - Emergency call enhancements
1654	NP-000379	R_WI	Emergency call enhancements for CS based calls
2226	T1-06_25	S_WT	Testing Emergency call enhancements for CS based calls

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 (formerly release 2000) and therefore the test specifications must be updated to reflect these changes.

4. Objective

For release 4 the emergency call procedures for circuit switched call will be enhanced, for example common dialling code or unique key sequence.

The objective is to modify the conformance test specifications to reflect these changes in the UE core specifications.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.123a,b		User Equipment (UE) conformance specification; Part 1: Protocol conformance specification, Part 2: Implementation Conformance Statement (ICS) proforma specification	TSG T #14	Modify the protocol test specification to reflect the changes to the UE core specification for emergency calls in the CS domain
TS34.123c		User Equipment (UE) conformance specification; Part 3: TTCN Test Cases	TSG T #15	Develop TTCN test cases to support conformance test spec

11.Work item raporteurs

Mr Dan FOX, Anritsu Ltd, UK

12 Work item leadership

TSG T1 SWG /SIG

13 Supporting Companies

Nokia, Ericsson, Sony, NTT DoCoMo, Sharp

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c.Ssee section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

Work Item Description

BB_T1-06_26. Miscelleneous UE Conformance Testing Activities

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1861	T1-06_26	P_F	Miscellaneous UE Conformance Testing Activities
1862	T1-06_27	S_WT	Optimisation of Test Time, RF Aspects (FDD)
1863	T1-06_28	S_WT	Optimisation of Test Time, RF Aspects (TDD)
1907	T1-06_29	S_WT	Extensions to R99 Test cases
1908	T1-06_30	S_WT	Review all other work items for impact on new or exiting 34 series specs.
1909	T1-06_31	S_WT	Additional signalling tests to cover VHE, OSA, MExE, W/B Telephony AMR
TBD	T1-06_32	S_WT	Work to maintain the current release 99 test specification and test cases
TBD	T1-06_33	S_WT	Completion of the Release 99 TCs for TDD

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

Because of the large number of changes to the core specifications for release 99, it was not possible to develop and optimise all aspects of the test specifications. This building block includes a number of work items to improve these release 99 test specifications.

This work in turn will be carried forward to improve release 4 and 5 test specifications.

4. Objective

This work item is a building block used to collect together the conformance testing aspects which are not directly related to a 3GPP feature. As such it does not require any work at this level and for this reason it is supported by TSG T1 and reported on by the T1 chairman.

All of the work of TSG T1 takes place in its subordinate Work Tasks.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11.Work item raporteurs

TSG T1 Chairman

12 Work item leadership

TSG T1

13 Supporting Companies

TSG T1

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b. See section 2, Linked work items, for relationship between this building block, its parent feature and associated work tasks

WT_T1-06_27. Optimisation of Test Time, RF Aspects (FDD) (RF)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
1861	T1-06_26	P_F	Miscellaneous UE Conformance Testing Activities
1862	T1-06_27	S_WT	Optimisation of Test Time, RF Aspects (FDD)

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The current test specifications are designed to provide comprehensive testing of a UE against the core specification. At this stage (Rel 99) little consideration has been given to the practical issues of overall test time and the number of test cases required to provide an acceptable level of confidence.

4. Objective

The objective then is as follows:-

1. To investigate the typical test time of each test case
2. To investigate where test functionality overlaps from one test case to another
3. To recommend a minimum combination of test cases and test parameters that are consistent with proving conformance of the UE to the core specifications and to a high level of confidence
4. This should then be consistent with the optimum test time

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.121		Terminal Conformance Specification; Radio transmission and reception (FDD)	TSG T#15, Mar-02 Work starts: TSG T1 #11	Recommended test suite to provide high level of confidence consistent with optimised test time

11.Work item raporteurs

Mr Kunitoshi YONEKURA, Fujitsu, Japan;

12 Work item leadership

TSG T1 SWGs /RF

13 Supporting Companies

Agilent, Rohde & Schwarz, Anritsu, Nokia, Qualcomm

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

WT_T1-06_28. Optimisation of Test Time, RF Aspects (TDD) (RF)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

3. Linked work items

WP ID	WID	Rel. *	Title
1861	T1-06_26	P_F	Miscellaneous UE Conformance Testing Activities
1863	T1-06_28	S_WT	Optimisation of Test Time, RF Aspects (TDD)

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The current test specifications are designed to provide comprehensive testing of a UE against the core specification. At this stage (Rel 99) little consideration has been given to the practical issues of overall test time and the number of test cases required to provide an acceptable level of confidence.

4. Objective

The objective then is as follows:-

5. To investigate the typical test time of each test case
6. To investigate where test functionality overlaps from one test case to another
7. To recommend a minimum combination of test cases and test parameters that are consistent with proving conformance of the UE to the core specifications and to a high level of confidence
8. This should then be consistent with the optimum test time

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.122		Terminal Conformance Specification; Radio transmission and reception (TDD)	TSG T#15, Mar-02 Work starts: TSG T1 #11	Recommended test suite to provide high level of confidence consistent with optimised test time

11.Work item raporteurs

Mr Kunitoshi YONEKURA, Fujitsu, Japan;

12 Work item leadership

TSG T1 SWGs /RF

13 Supporting Companies

Agilent, Rohde & Schwarz, Anritsu and Nokia

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

WT_T1-06_29. Extensions to R99 Test cases (FDD/SIG)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

4. Linked work items

WP ID	WID	Rel. *	Title
1861	T1-06_26	P_F	Miscellaneous UE Conformance Testing Activities
1907	T1-06_29	S_WT	Extensions to R99 Test cases

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

For release 99 it has not been possible to provide a complete coverage of signalling test cases. For this reason TSG T1 aims to complete the remaining sections as part of its Release 4 work.

4. Objective

To provide additional test cases to cover the remaining areas not covered by Rel 99, for FDD. This includes both prose and TTCN via the project team

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	**USIM**	**ME**	**AN**	**CN**	**Others**
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.123a,b		User Equipment (UE) conformance specification; Part 1: Protocol conformance specification, Part 2: Implementation Conformance Statement (ICS) proforma specification	TSG T #15	Additional test cases
TS34.123c		User Equipment (UE) conformance specification; Part 3: TTCN Test Cases	TSG T #17	

11.Work item raporteurs

Mr Dan FOX, Anritsu Ltd, UK;

12 Work item leadership

TSG T1 SWGs /SIG

13 Supporting Companies

Nokia, Siemens, Sony, NTT DoCoMo, Denso, (Sharp), Motorola

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

WT_T1-06_32. Maintenance of the R99 test specification and test cases (SIG)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

5. Linked work items

WP ID	WID	Rel. *	Title
1861	T1-06_26	P_F	Miscellaneous UE Conformance Testing Activities
TBD	T1-06_32	S_WT	Work to maintain the current release 99 test specification and test cases

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

It is expected that for the immediate future it will be necessary to update and maintain the release 99 test specifications, especially those relating to signalling. It is also expected that this will represents a significant amount of work for TSG T1 hence the need for a separate work item.

4. Objective

To update and maintain the release 99 test specifications. This is most likely to affect documents 34.123 parts 1-3.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	**USIM**	**ME**	**AN**	**CN**	**Others**
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.123a,b		User Equipment (UE) conformance specification; Part 1: Protocol conformance specification, Part 2: Implementation Conformance Statement (ICS) proforma specification	Dependent on stability of core specs	General maintenance and updates
TS34.123c		User Equipment (UE) conformance specification; Part 3: TTCN Test Cases	Dependent on stability of the core specs	

11.Work item raporteurs

Mr Dan FOX, Anritsu Ltd, UK;

12 Work item leadership

TSG T1 SWGs /SIG

13 Supporting Companies

Nokia, Siemens, Sony, NTTDoCoMo, Denso, Motorola, Ericsson

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

WT_T1-06_33. Completion of the Release 99 TCs for TDD (SIG)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

6. Linked work items

WP ID	WID	Rel. *	Title
1861	T1-06_26	P_F	Miscellaneous UE Conformance Testing Activities
TBD	T1-06_33	S_WT	Completion of the Release 99 TCs for TDD

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

So far for release 99 it has only been possible to create the signalling test cases for FDD. It will be necessary to modify and adapt these FDD test cases to test TDD.

4. Objective

To provide 3GPP with prose signalling test cases and an abstract test suite in TTCN capable of conformance testing the TDD release 99 UEs.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	**USIM**	**ME**	**AN**	**CN**	**Others**
Yes		X			
No	X		X	X	
Don't know					X

10.Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.123a,b		User Equipment (UE) conformance specification; Part 1: Protocol conformance specification, Part 2: Implementation Conformance Statement (ICS) proforma specification	TSG T #16 Work starts: TSG T1 #?	Adaptation for TDD
TS34.123c		User Equipment (UE) conformance specification; Part 3: TTCN Test Cases	TSG T #18 Work starts: TSG T1 #?	Adaptation for TDD

11.Work item raporteurs

Mr Dan FOX, Anritsu Ltd, UK;

12 Work item leadership

TSG T1 SWGs /SIG

13 Supporting Companies

Siemens, NTTDoCoMo, Nokia, Anritsu

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature

Work Item Description

WT_T1-06_34. Testing RAB support enhancements-Robust Header Compression (SIG/Rel 4)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

2. Linked work items

WP ID	WID	Rel. *	Title
9	RAN_Wis_	P_F	RAN improvements
2102	T1-06_16	P_BB	Conformance Testing Aspects - RAN improvements
2206	WI Completed	R_WI	RAB support enhancement - ROHC part only
2461?	T1-06_34	WT	Testing RAB support enhancements-Robust Header Compression

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced for release 4 (formerly release 2000) and therefore the test specifications must be updated to reflect these changes.

See LS from R2, R2-010760

TSG RAN WG2 would like to inform TSG-T WG1 that the Robust Header Compression (ROHC) protocol as standardised in the Internet Engineering Task Force (IETF) ROHC WG has been agreed by TSG RAN WG2 to be included in Release 4 of PDCP(TS 25.323).

ROHC has been part of the work item, "Radio Access Bearer Support Enhancements" and the results are captured in TR 25.844 v2.0.0. The corresponding CRs to include ROHC into the Release 4 of radio interface protocols have also been agreed in TSG RAN WG2.

The IETF standardisation process has a requirement for interoperability testing before an IETF protocol is made a permanent standard. However, TSG RAN WG2 would like to ask TSG-T WG1 if it is necessary to test the ROHC protocol in 3GPP if it already will be done in IETF. Should there be tests in 3GPP and/or co-operation from 3GPP with the IETF interoperability tests for ROHC?.

TSG RAN2 WG2 would like TSG-T WG1 to consider these questions when designing tests for Release 4 of PDCP.

4. Objective

This work item should provide the conformance test capability to verify that the radio access bearer support enhancements on the Uu interface are correctly implemented within the UE for Robust Header Compression (RoHC).

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10. Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
TS34.123a,b		User Equipment (UE) conformance specification; Part 1: Protocol conformance specification, Part 2: Implementation Conformance Statement (ICS) proforma specification	TSG T #16	Header compression for VoIP, Normally referenced from an IETF RFC?,
TS34123c		User Equipment (UE) conformance specification; Part 3: TTCN Test Cases	TSG T #17	Preparation and modification of TTCN test cases to accommodate changes in test specification

11. Work item raporteurs

Dan Fox, Chairman of TSG T1/SIG

12 Work item leadership

TSG T1 SWG/SIG

13 Supporting Companies

Ericsson, Sharp, Motorola, Nokia

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.

Work Item Description

WT_T1-06_35. Testing UMTS 1900 (SIG/RF)

1. 3GPP Work Area

X	Radio Access
	Core Network
	Services

3. Linked work items

WP ID	WID	Rel. *	Title
1216	RAN_Wis_21	P_F	Improvements of Radio Interface
1839	T1-06_3	P_BB	Conformance Test Aspects - improvements in Radio Interface
TBD	T1-06_35	WT	Testing UMTS 1900
2467	RAN_Wis_?	R_WI	UMTS 1900
2215	T1-06_10	R_WI	Testing UMTS 1800
1996	RAN_Wis_39	R_WI	UMTS 1800

* Relationship: P = Parent, F = Feature, BB = Building Block, S = Subordinate, R = Related

3. Justification

The core specifications are being updated and enhanced to support radio carrier frequencies of 1900MHz and other related bands, such as 1800MHz. This capability has now been designated 'release independent'. This means that this capability can be applied to UEs conforming to any release.

This will be covered in the test specifications by either adding an applicability table (or similar device) to the current version of the document, or a separate document will be created as appropriate.

It is anticipated that these test cases will be very similar, if not combined with, the test cases for UMTS1800.

4. Objective

It has been decided at WARC 00 that IMT2000 can be extended down to the 1800/1900MHz 2G cellular bands.

The objective is to provide a conformance test specification to cover these new bands that can be applied to UEs conforming to any available release.

5. Service Aspects

None

6. MMI-Aspects

None

7. Charging Aspects

None

8. Security Aspects

None

9. Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X			
No	X		X	X	
Don't know					X

10. Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TS34.12x Or additions to TS34.121/2	UE Conformance Specfication; Radio Transmission and Reception, aspects of UMTS1800/1900 FDD	SWG RF		TSG T#14	TSG T#15	New document or applicability table in current document
TS34.12x Or additions to TS34.123	UE Conformance Specfication; Protocol, aspects of UMTS1800/1900	SWG SIG		TSG T#18	TSG T#19	New Document or applicability table, will require prose and TTCN parts

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments

11. Work item raporteurs

Mr Kunitoshi YONEKURA, Fujitsu, Japan;
Mr Thomas MAUCKSCH, Rohde & Schwarz, Germany
Mr Dan FOX, Anritsu Ltd, UK

12 Work item leadership

TSG T1 SWGs /RF and /SIG

13 Supporting Companies

Qualcomm, Motorola, Nortel, Ericsson, Samsung

14 Classification of the WI (if known)

	Feature (go to 14a)

	Building Block (go to 14b)
X	Work Task (go to 14c)

14c. See section 2, Linked Work Items for relationship between this Work Task and its parent Building Block and Feature.