TSG-RAN Meeting #23 **RP-040084**
Phoenix, Arizona, USA, 10 - 13 March 2004

Title: **Independent Release 4 CR to TS 25.225 and the shadow CRs to Release 5 and Release 6**

Source: **TSG-RAN WG1**

Agenda item: **7.2.4**

1. Independent Release 4 CR to **TS 25.225** and the shadow CRs to Release 5 and Release 6 **(RP-040084)**

RP tdoc#	WG tdoc#	Spec	CR	R	Subject	Ph	C	Curr	New	WI	Remarks
RP-040084	R1-040367	25.225	076	1	Clarification of TA definition for 1.28Mcps TDD	Rel-4	F	4.7.0	4.8.0	LCRTDD phys	
RP-040084	R1-040367	25.225	077	1	Clarification of TA definition for 1.28Mcps TDD	Rel-5	A	5.6.0	5.7.0	LCRTDD phys	
RP-040084	R1-040367	25.225	078	1	Clarification of TA definition for 1.28Mcps TDD	Rel-6	A	6.0.0	6.1.0	LCRTDD phys	

3GPP TSG-RAN WG1 Meeting #36
Malaga, Spain, 16-20 February, 2004

R1-040367 ⌘

CR-Form-v7

CHANGE REQUEST

⌘ **25.225** **CR** **076** ⌘ **rev** **1** ⌘ Current version: **4.7.0** ⌘

*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:	⌘	Clarification of TA definition for 1.28Mcps TDD
Source:	⌘	TSG RAN WG1
Work item code:	⌘	LCRTDDphys
Date:	⌘	19/2/2004
Category:	⌘	**F**
Release:	⌘	Rel-4

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:	⌘	In 1.28Mcps TDD, measurement Timing Advance is defined. But the definition is not very clear for multi-path case now. A clarification has been added for this.
Summary of change:	⌘	The definition of T_{RX} has been clarified. The reference section number has been corrected according to corresponding chapter change in 25.221.
Consequences if not approved:	⌘	The LCR TDD TA measurement definition is not very clear. This will remain ambiguous. **Isolated Impact Analysis:** There is no change of the measurement definition in the CR. The CR intends to clarify behaviour that has very likely been assumed in most implementations. This CR would not affect implementations behaving as indicated in the CR. This is an isolated impact CR.

Clauses affected:	⌘	5.1.14			
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.

5.1.14 Timing Advance (T_{ADV}) for 1.28 Mcps TDD

Definition	The 'timing advance (T_{ADV})' is the time difference $T_{ADV} = T_{RX} - T_{TX}$ Where T_{RX}: calculated beginning time of the first uplink time slot in the first subframe used by the UE with the UE timing according to the reception of start (defined by the first detected path in time) of a certain downlink time slot (for the timing it is assumed that the time slots within a sub-frame are scheduled like given in the frame structure described in 25.221 chapter ~~6.1~~5A.1) T_{TX}: time of the beginning of the same uplink time slot by the UE (for the timing it is assumed that the time slots within a sub-frame are scheduled like given in the frame structure described in 25.221 chapter ~~6.1~~5A.1)
Applicable for	CELL FACH intra, CELL DCH intra

3GPP TSG-RAN WG1 Meeting #36
Malaga, Spain, 16-20 February, 2004

R1-040367⌘

CR-Form-v7

CHANGE REQUEST

⌘ **25.225** **CR** **077** ⌘ **rev** **1** ⌘ Current version: **5.6.0** ⌘

*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 [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	Clarification of TA definition for 1.28Mcps TDD
Source:	⌘	TSG RAN WG1
Work item code:	⌘	LCRTDDphys
Date:	⌘	19/2/2004
Category:	⌘	**A**
Release:	⌘	Rel-5

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:	⌘	In 1.28Mcps TDD, measurement Timing Advance is defined. But the definition is not very clear for multi-path case now. A clarification has been added for this.
Summary of change:	⌘	The definition of T_{RX} has been clarified. The reference section number has been corrected according to corresponding chapter change in 25.221.
Consequences if not approved:	⌘	The LCR TDD TA measurement definition is not very clear. This will remain ambiguous. **Isolated Impact Analysis:** There is no change of the measurement definition in the CR. The CR intends to clarify behaviour that has very likely been assumed in most implementations. This CR would not affect implementations behaving as indicated in the CR. This is an isolated impact CR.

Clauses affected:	⌘	5.1.14

		Y	N		
Other specs affected:	⌘		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.

5.1.14 Timing Advance (T_{ADV}) for 1.28 Mcps TDD

Definition	The 'timing advance (T_{ADV})' is the time difference $T_{ADV} = T_{RX} - T_{TX}$ Where T_{RX}: calculated beginning time of the first uplink time slot in the first subframe used by the UE with the UE timing according to the reception of start (defined by the first detected path in time) of a certain downlink time slot (for the timing it is assumed that the time slots within a sub-frame are scheduled like given in the frame structure described in 25.221 chapter ~~6.1~~5A.1) T_{TX}: time of the beginning of the same uplink time slot by the UE (for the timing it is assumed that the time slots within a sub-frame are scheduled like given in the frame structure described in 25.221 chapter ~~6.1~~5A.1)
Applicable for	CELL FACH intra, CELL DCH intra

3GPP TSG-RAN WG1 Meeting #36
Malaga, Spain, 16-20 February, 2004

R1-040367⌘

CR-Form-v7

CHANGE REQUEST

⌘ **25.225** **CR** **078** ⌘ **rev** **1** ⌘ Current version: **6.0.0** ⌘

*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 [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	Clarification of TA definition for 1.28Mcps TDD
Source:	⌘	TSG RAN WG1
Work item code:	⌘	LCRTDDphys
Date:	⌘	19/2/2004
Category:	⌘	**A**
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:	⌘	In 1.28Mcps TDD, measurement Timing Advance is defined. But the definition is not very clear for multi-path case now. A clarification has been added for this.
Summary of change:	⌘	The definition of T_{RX} has been clarified. The reference section number has been corrected according to corresponding chapter change in 25.221.
Consequences if not approved:	⌘	The LCR TDD TA measurement definition is not very clear. This will remain ambiguous. **Isolated Impact Analysis:** There is no change of the measurement definition in the CR. The CR intends to clarify behaviour that has very likely been assumed in most implementations. This CR would not affect implementations behaving as indicated in the CR. This is an isolated impact CR.

Clauses affected:	⌘	5.1.14

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.

5.1.14 Timing Advance (T_{ADV}) for 1.28 Mcps TDD

Definition	The 'timing advance (T_{ADV})' is the time difference $T_{ADV} = T_{RX} - T_{TX}$ Where T_{RX}: calculated beginning time of the first uplink time slot in the first subframe used by the UE with the UE timing according to the reception of start (defined by the first detected path in time) of a certain downlink time slot (for the timing it is assumed that the time slots within a sub-frame are scheduled like given in the frame structure described in 25.221 chapter ~~6.1~~5A.1) T_{TX}: time of the beginning of the same uplink time slot by the UE (for the timing it is assumed that the time slots within a sub-frame are scheduled like given in the frame structure described in 25.221 chapter ~~6.1~~5A.1)
Applicable for	CELL FACH intra, CELL DCH intra