## **RP-020113**

		5.1					
	<b>25.306 CR XX # rev</b> - <sup><b>#</b> Current version: <b>3.4.0</b> <sup>#</sup></sup>						
Spe	ec Title: UE Radio Access Capabilities #						
For <b>HELP</b> on usi	ing this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.	]					
Proposed change af	ffects: # (U)SIM ME/UE X Radio Access Network X Core Network						
Title: ೫	Support of UP measurement reporting in CELL_PCH/URA_PCH						
Source: ೫	Nortel Networks, Qualcomm, CPS, Ericsson						
Work item code: #	Date: # 5 <sup>th</sup> March 2002						
Category: ж	F Release: # R99						
	Use <u>one</u> of the following categories: Use <u>one</u> of the following releases:						
	F (correction)2(GSM Phase 2)A (corresponds to a correction in an earlier release)R96(Release 1996)						
	B (addition of feature), R97 (Release 1997)						
	C (functional modification of feature)R98(Release 1998)D (editorial modification)R99(Release 1999)						
	Detailed explanations of the above categories can REL-4 (Release 4)						
b	be found in 3GPP TR 21.900. REL-5 (Release 5)						
Dessen for shanes	P In DOO the macaurement performance requirements for LID macaurements in						
Reason for change:	<ul> <li>In R99 the measurement performance requirements for UP measurements in CELL_PCH/URA_PCH are missing from RAN4 specifications.</li> </ul>						
Summary of change	e: # UE positioning reporting in CELL_PCH and URA_PCH is made an UE capability	v.					
	If the UE supports this capability it will comply to the measurement performance						
	requirements that will be defined in Release 5 RAN4 specifications.						
	Isolated impact analysis:						
	Impacted function is UE Positioning reporting in CELL_PCH and URA_PCH states.	Impacted function is UE Positioning reporting in CELL_PCH and URA_PCH					
	The proposed changes are isolated impact to the impacted functionality.						
Consequences if	<b># UP measurement reporting in CELL_PCH, URA_PCH is misaligned between</b>						
not approved:	RAN2 and RAN4 specifications in R99.						
Clauses affected:	<b>#</b> 4.8, 5.1, 5.2.1						
Other specs	<b>X</b> Other core specifications <b>X</b> 25.331						
affected:	Test specifications						
	O&M Specifications						
Other comments:	¥						
Cale confidents.							

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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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

## 4.8 UE positioning related parameters

## Standalone location method(s) supported

Defines if a UE can measure its location by some means unrelated to UTRAN (e.g. if the UE has access to a standalone GPS receiver).

## OTDOA UE based method supported

Defines if a UE supports the OTDOA UE based schemes.

#### Network Assisted GPS support

Defines if a UE supports either of the two types of assisted GPS schemes, namely "Network based", "UE based", "Both", or "none".

#### GPS reference time capable

Defines if a UE has the capability to measure GPS reference time as defined in [6].

#### Support for IPDL

Defines if a UE has the capability to use IPDL to enhance its "SFN-SFN observed time difference –type 2" measurement.

## Support for Rx-Tx time difference type 2

Defines if a UE has the capability to perform the Rx-Tx time difference type 2 measurement.

## Support for UP measurement reporting in CELL PCH and URA PCH RRC states

Defines if a UE has the capability to report the UP measurement results in CELL\_PCH and URA\_PCH RRC states.

# 5 Possible UE radio access capability parameter settings

## 5.1 Value ranges

## Table 5.1: UE radio access capability parameter value ranges

		UE radio access capability parameter	Value range	
PDCP parameters		Support for RFC 2507	Yes/No	
•		Support for loss-less SRNS relocation	Yes/No	
		Maximum header compression context space	512, 1024, 2048, 4096, 8192 bytes	
RLC parameters		Total RLC AM buffer size	2,10,50,100,150,500,1000 kBytes	
		Maximum number of AM entities	3,4,5,6,8,16,30	
PHY parameters	Transport	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
•	channel	transport blocks being received at an	7680, 8960, 10240, 20480, 40960,	
	parameters in	arbitrary time instant	81920, 163840	
	downlink	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		convolutionally coded transport blocks	7680, 8960, 10240, 20480, 40960,	
		being received at an arbitrary time instant	81920, 163840	
		Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		turbo coded transport blocks being	7680, 8960, 10240, 20480, 40960,	
		received at an arbitrary time instant	81920, 163840	
		Maximum number of simultaneous	4, 8, 16, 32	
		transport channels	1, 0, 10, 02	
		Maximum number of simultaneous CCTrCH	1, 2, 3, 4, 5, 6, 7, 8	
		Maximum total number of transport	4, 8, 16, 32, 48, 64, 96, 128, 256, 512	
		blocks received within TTIs that end	, _ , _ , _ , _ , _ , _ , _ , _ , _ , _	
		within the same 10 ms interval		
		Maximum number of TFC in the	16, 32, 48, 64, 96, 128, 256, 512,	
		TFCS	1024	
		Maximum number of TF	32, 64, 128, 256, 512, 1024	
		Support for turbo decoding	Yes/No	
	Transport channel	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		transport blocks being transmitted at	7680, 8960, 10240, 20480, 40960,	
	parameters in	an arbitrary time instant	81920, 163840	
	uplink	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		convolutionally coded transport blocks	7680, 8960, 10240, 20480, 40960,	
		being transmitted at an arbitrary time instant	81920, 163840	
		Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		turbo coded transport blocks being transmitted at an arbitrary time instant	7680, 8960, 10240, 20480, 40960, 81920, 163840	
		Maximum number of simultaneous transport channels	2, 4, 8, 16, 32	
		Maximum number of simultaneous CCTrCH of DCH type (TDD only)	1, 2, 3, 4, 5, 6, 7, 8	
		Maximum total number of transport	2, 4, 8, 16, 32, 48, 64, 96, 128, 256,	
		blocks transmitted within TTIs that	512	
		start at the same time		
		Maximum number of TFC in the TFCS	4, 8, 16, 32, 48, 64, 96, 128, 256, 512, 1024	
		Maximum number of TF	32, 64, 128, 256, 512, 1024	
		Support for turbo encoding	Yes/No	
	FDD Physical channel	Maximum number of DPCH/PDSCH codes to be simultaneously received	1, 2, 3, 4, 5, 6, 7, 8	
	parameters in	Maximum number of physical channel	600, 1200, 2400, 3600, 4800, 7200,	
	downlink	bits received in any 10 ms interval	9600, 14400, 19200, 28800, 38400,	
		(DPCH, PDSCH, S-CCPCH)	48000, 57600, 67200, 76800	
		Support for SF 512	Yes/No	

		UE radio access capability parameter	Value range
		Support of PDSCH	Yes/No
		Simultaneous reception of SCCPCH and DPCH	Yes/No
		Simultaneous reception of SCCPCH, DPCH and PDSCH	Yes/No
		Maximum number of simultaneous S- CCPCH radio links	1 NOTE: Only the value 1 is part of this release of the specification
		Support of dedicated pilots for channel estimation	Yes/No
	FDD Physical channel	Maximum number of DPDCH bits transmitted per 10 ms	600, 1200, 2400, 4800, 9600, 19200, 28800, 38400, 48000, 57600
	parameters in uplink	Support of PCPCH	Yes/No
	TDD physical channel	Maximum number of timeslots per frame	114
	parameters in downlink	Maximum number of physical channels per frame	1,2,3224
		Minimum SF	16, 1
		Support of PDSCH	Yes/No
		Maximum number of physical channels per timeslot	116
	TDD physical channel	Maximum Number of timeslots per frame	114
	parameters in uplink	Maximum number of physical channels per timeslot	1, 2
		Minimum SF	16,8,4,2,1
RF parameters	FDD RF	Support of PUSCH UE power class	Yes/No 3, 4
RF parameters	parameters	DE power class	NOTE: Only power classes 3 and 4 are part of this release of the specification
		Tx/Rx frequency separation	190 MHz 174.8-205.2 MHz 134.8-245.2 MHz
RF parameters	TDD RF parameters	UE power class	2,3 NOTE: Only power classes 2 and 3 are part of this release of the specification
		Radio frequency bands	a), b), c), a+b), a+c), a+b+c)
		Chip rate capability	3.84,1.28
Multi-mode related		Support of UTRA FDD/TDD	FDD, TDD, FDD+TDD
Multi-RAT related	parameters	Support of GSM	Yes/No (per GSM frequency band)
UE positioning rela	ated parameters	Support of multi-carrier Standalone location method(s) supported	Yes/No Yes/No
		Network assisted GPS support	Network based / UE based / Both/ None
		GPS reference time capable Support for IPDL	Yes/No Yes/No
		Support for OTDOA UE based method	Yes/No
		Support for Rx-Tx time difference type 2 measurement	Yes/No
		Support for UP measurement reporting in CELL_PCH and URA_PCH RRC states	Yes/No
Measurement rela	ted capabilities	Need for downlink compressed mode	Yes/No (per frequency band, UTRA
		Need for uplink compressed mode	mode and RAT) Yes/No (per frequency band, UTRA mode and RAT)
General capabilitie	2	ICS version	R99

# 5.2.1 Combinations of common UE Radio Access Parameters for UL and DL

NOTE: Measurement-related capabilities are not included in the combinations. These capabilities are independent from the supported RABs.

## Table 5.2.1.1: UE radio access capability parameter combinations, parameters common for UL and DL

Reference combination of UE Radio Access capability parameters common for UL and DL	32kbps class	64kbps class	128kbps class	384kbps class	768kbps class	2048kbps class	
PDCP parameters							
Support for RFC 2507	No	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	
Support for loss-less SRNS relocation			No/\ NOT				
Maximum header compression context space		Not a	applicable for co	onformance te	sting		
RLC parameters							
Total RLC AM buffer size (kbytes)	10	10	50	50	100	500	
Maximum number of AM entities	4	4	5	6	8	8	
Multi-mode related parameters					•		
Support of UTRA FDD/TDD			FDD / FDD+ NOT				
Multi-RAT related parameters							
Support of GSM	Yes/No NOTE 1						
Support of multi-carrier	Yes/No NOTE 1						
UE positioning related parameters							
Standalone location method(s) supported	Yes/No NOTE 1						
Network assisted GPS support		Netwo	ork based / UE NOT		None		
GPS reference time capable			Yes/ NOT				
Support for IPDL			Yes/ NOT	No			
Support for OTDOA UE based method	Yes/No						
Support for Rx-Tx time difference type 2	NOTE 1 Yes/No						
measurement	NOTE 1						
Support for UP measurement reporting in			Yes/				
CELL_PCH and URA_PCH RRC states			NOT				
RF parameters for FDD							
UE power class		3 / NOT					
Tx/Rx frequency separation			190 N	ЛНz			
RF parameters for TDD							
Radio frequency bands		A	/b/c/a+b/a- NOT	E 1	-C		
Chip rate capability	1.28 / 3.84 Mchip/sec NOTE 1						
UE power class			2 / NOT	3			

NOTE 1: Options represent different combinations that should be supported with Conformance Tests.

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## 4.8 UE positioning related parameters

### Standalone location method(s) supported

Defines if a UE can measure its location by some means unrelated to UTRAN (e.g. if the UE has access to a standalone GPS receiver).

## OTDOA UE based method supported

Defines if a UE supports the OTDOA UE based schemes.

#### Network Assisted GPS support

Defines if a UE supports either of the two types of assisted GPS schemes, namely "Network based", "UE based", "Both", or "none".

## GPS reference time capable

Defines if a UE has the capability to measure GPS reference time as defined in [6].

#### Support for IPDL

Defines if a UE has the capability to use IPDL to enhance its "SFN-SFN observed time difference –type 2" measurement.

## Support for Rx-Tx time difference type 2

Defines if a UE has the capability to perform the Rx-Tx time difference type 2 measurement.

## Support for UP measurement reporting in CELL PCH and URA PCH RRC states

Defines if a UE has the capability to report the UP measurement results in CELL\_PCH and URA\_PCH RRC states.

## 5.1 Value ranges

Table 5.1: UE radio access	capability	parameter value	e ranges
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		UE radio access capability parameter	Value range	
PDCP parameters		Support for RFC 2507	Yes/No	
		Support for RFC 3095	Yes/No	
		Support for loss-less SRNS relocation	Yes/No	
		Maximum header compression	512, 1024, 2048, 4096, 8192 bytes	
		context space		
RLC parameters		Total RLC AM buffer size	2,10,50,100,150,500,1000 kBytes	
		Maximum number of AM entities	3,4,5,6,8,16,30	
PHY parameters	Transport	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
	channel	transport blocks being received at an	7680, 8960, 10240, 20480, 40960,	
	parameters in	arbitrary time instant	81920, 163840	
	downlink	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		convolutionally coded transport blocks	7680, 8960, 10240, 20480, 40960,	
		being received at an arbitrary time	81920, 163840	
		instant	01020, 100010	
		Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		turbo coded transport blocks being	7680, 8960, 10240, 20480, 40960,	
		received at an arbitrary time instant	81920, 163840	
		Maximum number of simultaneous	4, 8, 16, 32	
		transport channels	7 - 7 - 7 -	
		Maximum number of simultaneous	1, 2, 3, 4, 5, 6, 7, 8	
		CCTrCH	4 0 40 00 40 04 00 400 050 54	
		Maximum total number of transport	4, 8, 16, 32, 48, 64, 96, 128, 256, 512	
		blocks received within TTIs that end		
		within the same 10 ms interval	40,00,40,04,00,400,050,540	
		Maximum number of TFC in the TFCS	16, 32, 48, 64, 96, 128, 256, 512, 1024	
		Maximum number of TF	32, 64, 128, 256, 512, 1024	
		Support for turbo decoding	Yes/No	
	Transport	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
	channel parameters in	transport blocks being transmitted at	7680, 8960, 10240, 20480, 40960,	
		an arbitrary time instant	81920, 163840	
	uplink	Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		convolutionally coded transport blocks	7680, 8960, 10240, 20480, 40960,	
		being transmitted at an arbitrary time	81920, 163840	
		instant		
		Maximum sum of number of bits of all	640, 1280, 2560, 3840, 5120, 6400,	
		turbo coded transport blocks being	7680, 8960, 10240, 20480, 40960,	
		transmitted at an arbitrary time instant Maximum number of simultaneous	81920, 163840	
			2, 4, 8, 16, 32	
		transport channels Maximum number of simultaneous	1, 2, 3, 4, 5, 6, 7, 8	
		CCTrCH of DCH type (TDD only)		
		Maximum total number of transport	2, 4, 8, 16, 32, 48, 64, 96, 128, 256,	
		blocks transmitted within TTIs that	512	
		start at the same time		
		Maximum number of TFC in the	4, 8, 16, 32, 48, 64, 96, 128, 256,	
		TFCS	512, 1024	
		Maximum number of TF	32, 64, 128, 256, 512, 1024	
		Support for turbo encoding	Yes/No	
	FDD Physical	Maximum number of DPCH/PDSCH	1, 2, 3, 4, 5, 6, 7, 8	
	channel	codes to be simultaneously received	600 1000 0100 0000 1000 7000	
	parameters in downlink	Maximum number of physical channel	600, 1200, 2400, 3600, 4800, 7200,	
	downlink	bits received in any 10 ms interval	9600, 14400, 19200, 28800, 38400,	
		(DPCH, PDSCH, S-CCPCH)	48000, 57600, 67200, 76800	
		Support for SF 512	Yes/No	
		Support of PDSCH	Yes/No	
		Simultaneous reception of SCCPCH and DPCH	Yes/No	
		Simultaneous reception of SCCPCH,	Yes/No	
	1			

		UE radio access capability parameter	Value range
		Support for RFC 2507	Yes/No
		Maximum number of simultaneous S- CCPCH radio links	1 NOTE: Only the value 1 is part of this release of the specification
		Support of dedicated pilots for channel estimation	Yes/No
	FDD Physical channel	Maximum number of DPDCH bits transmitted per 10 ms	600, 1200, 2400, 4800, 9600, 19200, 28800, 38400, 48000, 57600
	parameters in uplink	Support of PCPCH	Yes/No
	TDD 3.84 Mcps physical channel	Maximum number of timeslots per frame	114
	parameters in downlink	Maximum number of physical channels per frame Minimum SF	1,2,3224
			Yes/No
		Support of PDSCH Maximum number of physical channels per timeslot	116
	TDD 3.84 Mcps physical channel	Maximum Number of timeslots per frame	114
	parameters in uplink	Maximum number of physical channels per timeslot	1, 2
		Minimum SF Support of PUSCH	16,8,4,2,1 Yes/No
	TDD 1.28 Mcps physical channel	Maximum number of timeslots per subframe	16
	parameters in downlink	Maximum number of physical channels per subframe	1,2,3,,96
		Minimum SF	16, 1
		Support of PDSCH	Yes/No
		Maximum number of physical channels per timeslot	116
		Support 8PSK	Yes/No
	TDD 1.28 Mcps physical channel	Maximum number of timeslots per subframe	16
	parameters in uplink	Maximum number of physical channels per timeslot Minimum SF	1,2
		Support of 8PSK Support of PUSCH	Yes/No Yes/No
RF parameters	FDD RF parameters	UE power class	3, 4 NOTE: Only power classes 3 and 4 are part of this release of the specification
		Tx/Rx frequency separation	190 MHz 174.8-205.2 MHz 134.8-245.2 MHz
RF parameters	TDD 3.84 Mcps RF parameters	UE power class	2,3 NOTE: Only power classes 2 and 3 are part of this release of the specification
	TDD 1.28 Mcps	Radio frequency bands UE power class	a), b), c), a+b), a+c), b+c), a+b+c) 2,3
	RF parameters	Radio frequency bands	a), b), c), a+b), a+c), b+c), a+b+c)
Multi-mode related		Support of UTRA FDD	Yes/No
		Support of UTRA TDD 3.84 Mcps	Yes/No
		Support of UTRA TDD 1.28 Mcps	Yes/No
Multi-RAT related	parameters	Support of GSM	Yes/No (per GSM frequency band)
		Support of multi-carrier	Yes/No
UE positioning rela	ated parameters	Standalone location method(s) supported	Yes/No
		Network assisted GPS support	Network based / UE based / Both/ None

	UE radio access capability parameter	Value range
	Support for RFC 2507	Yes/No
	GPS reference time capable	Yes/No
	Support for IPDL	Yes/No
	Support for OTDOA UE based method	Yes/No
	Support for Rx-Tx time difference type 2 measurement	Yes/No
	Support for UP measurement reporting in CELL PCH and URA PCH RRC states	Yes/No
Measurement related capabilities	Need for downlink compressed mode	Yes/No (per frequency band, UTRA mode and RAT)
	Need for uplink compressed mode	Yes/No (per frequency band, UTRA mode and RAT)
General capabilities	ICS version	R99

# 5.2.1 Combinations of common UE Radio Access Parameters for UL and DL

NOTE: Measurement-related capabilities are not included in the combinations. These capabilities are independent from the supported RABs.

## Table 5.2.1.1: UE radio access capability parameter combinations, parameters common for UL and DL

Reference combination of UE Radio Access capability parameters common for UL and DL	32kbps class	64kbps class	128kbps class	384kbps class	768kbps class	2048kbps class	
PDCP parameters							
Support for RFC 2507	No	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	
Support for RFC 3095	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	No/Yes NOTE 1	
Support for loss-less SRNS relocation			No/` NOT	res		1	
Maximum header compression context space		Not a	pplicable for c	onformance te	sting		
RLC parameters							
Total RLC AM buffer size (kbytes)	10	10	50	50	100	500	
Maximum number of AM entities	4	4	5	6	8	8	
Multi-mode related parameters						•	
Support of UTRA FDD			Yes, NOT				
Support of UTRA TDD 3.84 Mcps			Yes, NOT				
Support of UTRA TDD 1.28 Mcps			Yes, NOT				
Multi-RAT related parameters							
Support of GSM			Yes, NOT				
Support of multi-carrier	Yes/No NOTE 1						
UE positioning related parameters							
Standalone location method(s) supported			Yes, NOT				
Network assisted GPS support		Netwo	rk based / UE NOT		None		
GPS reference time capable			Yes, NOT				
Support for IPDL			Yes	/No			
Support for OTDOA UE based method			Yes	/No			
Support for Rx-Tx time difference type 2			Yes				
measurement			NOT				
Support for UP measurement reporting in CELL_PCH and URA_PCH RRC states			<u>Yes</u> , <u>NOT</u>				
RF parameters for FDD			0./	4			
UE power class			3 / NOT				
Tx/Rx frequency separation	190 MHz						
RF parameters for TDD 3.84 Mcps							
Radio frequency bands		A	b/c/a+b/a <sup>,</sup> NOT		-c		
UE power class			2 / NOT	3			
RF parameters for TDD 1.28 Mcps				-			
Radio frequency bands		А	/b/c/a+b/a NOT		C		
UE power class			2 / NOT	3			

NOTE 1: Options represent different combinations that should be supported with Conformance Tests.