

# Mueller Exhibit 45



## 3GPP Specification detail

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**3GPP TS 25.214** ([click spec number to see fileserver directory for this spec](#))

### Physical layer procedures (FDD)

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TSG / WG responsible: **R1** ([click TSG/WG to see its home page](#))

Work item which gave rise to this spec: - ([click WI code to see Work Item details in the Work Plan](#))

Work items which may have impacted this spec: [click here](#)

Rapporteur: **BOUMENDIL, Sarah**

Specification required for: UTRAN-based systems

In the table below ...

... [click meeting number for meeting details](#);

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... [click SDO publication reference to download SDO transposed document](#).

Release	Freeze meeting	Freeze date	::	remarks	SDO publications
<b>R99</b>	SP-05	1999-10-13	::	.	ETSI
	event	version	available	remarks	click ref to download
	RP-03	1.0.0	1999-04-23		-
	RP-05	3.0.0	1999-10-13		-
	RP-06	3.1.0	1999-12-12		-
	RP-07	3.2.0	2000-03-15		RTS/TSGR-0125214UR1
	RP-08	3.3.0	2000-06-23		RTS/TSGR-0125214UR2
	RP-09	3.4.0	2000-10-18		RTS/TSGR-0125214UR3
	RP-10	3.5.0	2000-12-22		RTS/TSGR-0125214UR4
	RP-11	3.6.0	2001-04-05		RTS/TSGR-0125214UR5
	RP-12	3.7.0	2001-06-28		RTS/TSGR-0125214UR6
	RP-13	3.8.0	2001-10-08		RTS/TSGR-0125214UR7
	RP-14	3.9.0	2002-01-09		RTS/TSGR-0125214UR8
	RP-15	3.10.0	2002-03-29		RTS/TSGR-0125214UR9
	RP-17	3.11.0	2002-09-27		RTS/TSGR-0125214v3b0
	RP-19	3.12.0	2003-04-04		RTS/TSGR-0125214v3c0
<b>Rel-4</b>	SP-11	2001-03-22	::	.	ETSI
	event	version	available	remarks	click ref to download
	RP-11	4.0.0	2001-04-05		RTS/TSGR-0125214Uv4
	RP-12	4.1.0	2001-06-28		RTS/TSGR-0125214Uv4R1
	RP-13	4.2.0	2001-10-08		RTS/TSGR-0125214Uv4R2
	RP-14	4.3.0	2002-01-09		RTS/TSGR-0125214Uv4R3
	RP-15	4.4.0	2002-03-29		RTS/TSGR-0125214Uv4R4
	RP-17	4.5.0	2002-09-27		RTS/TSGR-0125214v450
	RP-19	4.6.0	2003-04-04		RTS/TSGR-0125214v460
<b>Rel-5</b>	RP-15	2002-03-08	::	.	ETSI
	event	version	available	remarks	click ref to download
	RP-15	5.0.0	2002-03-29		RTS/TSGR-0125214Uv5
	RP-16	5.1.0	2002-06-28		RTS/TSGR-0125214v510
	RP-17	5.2.0	2002-09-27		RTS/TSGR-0125214v520

	RP-18	5.3.0	2003-01-07		RTS/TSGR-0125214v530
	RP-19	5.4.0	2003-04-04		RTS/TSGR-0125214v540
	RP-20	5.5.0	2003-06-27		RTS/TSGR-0125214v550
	RP-21	5.6.0	2003-09-29		RTS/TSGR-0125214v560
	RP-22	5.7.0	2004-01-14		RTS/TSGR-0125214v570
	RP-23	5.8.0	2004-04-02		RTS/TSGR-0125214v580
	RP-24	5.9.0	2004-06-18		RTS/TSGR-0125214v590
	RP-26	5.10.0	2005-01-05		RTS/TSGR-0125214v5a0
	RP-28	5.11.0	2005-06-21		RTS/TSGR-0125214v5b0
<b>Rel-6</b>	RP-26	2004-12-10	::	created for M.1457 update .	ETSI
	event	version	available	remarks	click ref to download
	RP-22	6.0.0	2004-01-14	Required for update of ITU-R M.1457	RTS/TSGR-0125214v600
	RP-23	6.1.0	2004-04-02		RTS/TSGR-0125214v610
	RP-24	6.2.0	2004-06-18		RTS/TSGR-0125214v620
	RP-25	6.3.0	2004-09-28		RTS/TSGR-0125214v630
	RP-26	6.4.0	2005-01-05		RTS/TSGR-0125214v640
	RP-27	6.5.0	2005-03-29		RTS/TSGR-0125214v650
	RP-28	6.6.0	2005-06-21		RTS/TSGR-0125214v660
	RP-29	6.7.0	2005-09-29		-
	RP-30	6.7.1	2005-12-15	Minor edito to a header.	RTS/TSGR-0125214v671
	RP-31	6.8.0	2006-03-22		RTS/TSGR-0125214v680
	RP-32	6.9.0	2006-06-15		RTS/TSGR-0125214v690
	RP-33	6.10.0	2006-10-13		RTS/TSGR-0125214v6a0
	RP-34	6.11.0	2006-12-14		RTS/TSGR-0125214v6b0
<b>Rel-7</b>	RP-35	2007-03-09	::	*	ETSI
	event	version	available	remarks	click ref to download
	RP-31	7.0.0	2006-03-22		RTS/TSGR-0125214v700
	RP-32	7.1.0	2006-06-15		RTS/TSGR-0125214v710
	RP-33	7.2.0	2006-10-13		RTS/TSGR-0125214v720
	RP-34	7.3.0	2006-12-14		RTS/TSGR-0125214v730
	RP-35	7.4.0	2007-03-22		RTS/TSGR-0125214v740
	RP-36	7.5.0	2007-06-21		RTS/TSGR-0125214v750
	RP-37	7.6.0	2007-09-26		RTS/TSGR-0125214v760
	RP-38	7.7.0	2007-12-11		RTS/TSGR-0125214v770
	RP-39	7.8.0	2008-03-20		RTS/TSGR-0125214v780
	RP-40	7.9.0	2008-06-18		RTS/TSGR-0125214v790
	RP-42	7.10.0	2008-12-18		RTS/TSGR-0125214v7a0
	RP-43	7.11.0	2009-03-17		RTS/TSGR-0125214v7b0
	RP-44	7.12.0	2009-06-08		RTS/TSGR-0125214v7c0
	RP-45	7.13.0	2009-09-29		RTS/TSGR-0125214v7d0
	RP-46	7.14.0	2009-12-16		RTS/TSGR-0125214v7e0
	RP-47	7.15.0	2010-03-30		RTS/TSGR-0125214v7f0
	RP-49	7.16.0	2010-10-03		RTS/TSGR-0125214v7g0
	RP-50	7.17.0	2010-12-22		RTS/TSGR-0125214v7h0
<b>Rel-8</b>	SP-42	2008-12-11	::	*	ETSI
	event	version	available	remarks	click ref to download
	RP-38	8.0.0	2007-12-11		-
	RP-39	8.1.0	2008-03-20		-
	RP-40	8.2.0	2008-06-18		RTS/TSGR-0125214v820
	RP-41	8.3.0	2008-09-24		RTS/TSGR-0125214v830
	RP-42	8.4.0	2008-12-18		RTS/TSGR-0125214v840
	RP-43	8.5.0	2009-03-17		RTS/TSGR-0125214v850
	RP-44	8.6.0	2009-06-08		RTS/TSGR-0125214v860
	RP-45	8.7.0	2009-09-29		RTS/TSGR-0125214v870
	RP-46	8.8.0	2009-12-16		RTS/TSGR-0125214v880
	RP-47	8.9.0	2010-03-30		RTS/TSGR-0125214v890
	RP-49	8.10.0	2010-10-03		RTS/TSGR-0125214v8a0
	RP-50	8.11.0	2010-12-22		RTS/TSGR-0125214v8b0
	RP-53	8.12.0	2011-09-27		RTS/TSGR-0125214v8c0
<b>Rel-9</b>	SP-46	2009-12-10	::	*	ETSI
	event	version	available	remarks	click ref to download
	RP-45	9.0.0	2009-09-29		-

	RP-46	9.1.0	2009-12-16		RTS/TSGR-0125214v910
	RP-47	9.2.0	2010-03-30		RTS/TSGR-0125214v920
	RP-49	9.3.0	2010-10-03		RTS/TSGR-0125214v930
	RP-50	9.4.0	2010-12-22		RTS/TSGR-0125214v940
	RP-51	9.5.0	2011-03-30		RTS/TSGR-0125214v950
	RP-52	9.6.0	2011-06-22		RTS/TSGR-0125214v960
	RP-53	9.7.0	2011-09-27		RTS/TSGR-0125214v970
<b>Rel-10</b>	SP-51	2011-03-23	::	.	ETSI
	event	version	available	remarks	click ref to download
	RP-49	10.0.0	2010-10-03		-
	RP-50	10.1.0	2010-12-22		-
	RP-51	10.2.0	2011-03-30		RTS/TSGR-0125214va20
	RP-52	10.3.0	2011-06-22		RTS/TSGR-0125214va30
	RP-53	10.4.0	2011-09-27		RTS/TSGR-0125214va40
	RP-54	10.5.0	2011-12-22		RTS/TSGR-0125214va50
<b>Rel-11</b>		-	::	.	ETSI
	event	version	available	remarks	click ref to download
	RP-54	11.0.0	2011-12-22		-

Change Requests for this spec: [click here](#).

Genealogy of this spec:

antecedent(s)	this spec	descendant(s)
(no antecedents)	25.214	(no descendants)

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