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Technical Report

Digital cellular telecommunications system (Phase 2+);
Enhanced Data rates for GSM Evolution (EDGE);
Project scheduling and open issues
(3GPP TR 50.059 version 4.0.1 Release 4)

GLOBAL SYSTEM FOR MOBILE COMMUNICATIONS

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650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00   Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
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Foreword

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Contents

Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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1 Scope

The purpose of the present document is to describe the schedules of the Enhanced Data rate for GSM Evolution (EDGE) standardisation process and to view it's current state and open issues that are still under discussion. It also lists the new standards and necessary amendments to the GSM/DCS phase 2+ specifications for the technical realisation of the function.

1.1 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]   TDOC SMG2 331/97: "EDGE feasibility study Version 1.0".

[2]   TDOC SMG 1147/97: "Work item description for EDGE – NSS".

[3]   TDOC SMG 1148/97: "Work item description for EDGE – BSS".

[4]   TDOC SMG2 872/99: "EDGE Compact and support for E-GPRS in ANSI-136 networks".

[5]   TDOC 246/98: "".

[6]   TDOC SMG2 178/98: "UMTS Mobile Station Transmit Power".

[7]   TDOC SMG2 657/99: "Concept proposal for EGPRS".

[8]   TDOC SMG2 670/99: "Concept proposal for ECSD".

[9]   TDOC SMG2 EDGE 322/99: "EDGE compact concept proposal".

1.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

COMPACT	Deployment of services in spectrum below 1 MHz
ECSD	Enhanced ECSD
EDGE	Enhanced data rates for GSM Evolution
EGPRS	Enhanced GPRS

1.3 Support of specification work

The present document is a 'living document' and permanently updated by PT SMG. Proposals for change shall be forwarded to PT SMG (editor direct contact details are on the last page), where the latest version can be obtained at any time. The EDGE specification rapporteurs should make sure that the present document always reflects the latest status of work.

Latest versions of the material are available to interested parties within SMG. Specification and Change Request rapporteurs should ensure the latest versions of their material is made available for review and comment by the following mechanisms:

ETSI FTP Server (docboc.etsi.fr or docbox.etsi.org):

in */Tech-Org/smg/Document/smg2/edge/*.

- The new EDGE specifications.

- EDGE meeting reports, most input and all output documents from the former ad-hoc.

In /Tech-Org/smg/Document/smg2/edge/CR/

- The change request to existing specifications.

A HTML page is provided in /Tech-Org/smg/Document/smg2/edge/edge.html pointing out relevant EDGE information.

Email distribution lists:

SMG2EDGE@list.etsi.fr

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http://www.lsoft.com/scripts/wl.exe?SL1=SMG2EDGE&H=LIST.ETSI.FR

2 General

EDGE uses new modulation techniques in order to evolve data services in GSM reusing as much of the physical layer as possible. Two work items have been identified to introduce EDGE into the existing GSM system:

- EDGE Network sub system (NSS);

- EDGE Basestation sub system (BSS).

The EDGE BSS work item will provide a platform to employ new modulation techniques, whereas the EDGE NSS work item will define the network changes to facilitate the physical layer. According to the work item descriptions will EDGE provide two phases:

- Phase 1: providing single and multi slot packet switched services and single and multi slot circuit switched services below 64 kbit/s.

- Phase 2: providing real time services not included in phase 1 employing the new modulation techniques.

3 Requirements

The requirements for EDGE have been split into two documents, a service and radio requirement. The service requirement has been presented in SMG1. The radio requirements have been presented in SMG2 WPB#4:

- Service requirements for EDGE, SMG1, TDOC 246/98 (annex 4).

- Radio requirements for EDGE, SMG2 WPB#4, TDOC 178/98 (annex 5).

4 Functional description

4.1 EGPRS

The concept proposal for EGPRS has been discussed fairly detailed and has stablized in the recent meetings. The document TDOC SMG2 657/99, "Concept proposal for EGPRS" although maintained by a single company reflects the status of discussion. For normative information review the specifications named in the clauses below.

4.2 ECSD

The concept proposal for ECSD has been discussed fairly detailed and has stablized in the recent meetings. The document TDOC SMG2 670/99, "Concept proposal for ECSD" although maintained by a single company reflects the status of discussion. For normative information review the specifications named in the clauses below.

EDGE compact

The concept proposal for EDGE compact has been presented to SMG2 and the EDGE workshop in May and June 1999. The document TDOC SMG2 EDGE 322/99, "EDGE compact concept proposal" reflects the latest status of the discussion.

5 Technical realisation and amendments

5.1 Documentation Structure Overview

With the introduction of EDGE in GSM phase 2+ existing services like GPRS and HSCSD are enhanced by offering a new physical layer. The services itself are not modified. Therefore EDGE will be introduced in the existing specifications and stage descriptions rather then creating new ones.

5.2 Phased Introduction of Capability

In order to allow a fast introduction of EDGE in the specifications, EDGE has been split in two phases. Phase 1 will contain packet and circuit switched data services, phase 2 other services as specified in the work item descriptions ref [2] and ref [3].

5.2.1 Phase 1 EDGE

In phase 1 of EDGE the new physical layer based on 8PSK modulation will be introduced and EGPRS and ECSD will facilitate the new modulation in single and multi slot constellation.

For ECSD the maximum user rate will be limited to 64 kbps.

5.2.2 Phase 2 EDGE

Due to the substential changes required for EDGE phase 2 and GERAN release 2000 those issues will be handled in a new project plan. A first outline is presented in TDOC SMG2 EDGE 2e00-004.

6 Work item status

6.1 SMG1

Jan 1998	First discussion of the NSS work item in SMG1 plenary
April 1998	Presentation of the EDGE service requirements
July 1998	EDGE 10.59 has been presented again, service requirements have been endorsed SMG1 endorsed to update 02.34 / 02.60 stage descriptions with EDGE and that the change requests should be provided for the next plenary meeting. Circuit switched services should be provided with EDGE both for transparent and nontransparent.
Nov 1998	SMG1 approved CR for 02.34 and 02.60 introducing EDGE
Mar 1999	SMG1 approved CR on 02.34 and 02.07
Jul 1999	SMG1/S1 discusses CR on 02.34 and EDGE phase II/all IP
Sept 1999	SMG1/S1 agrees CR on 02.34 and has a session on All IP

6.2   SMG2

Dec 1996	SMG set's up work item 184: Improved data rates through optimized modulation
Dec 1997	Feasibility study Version 1.0 available from SMG2, approved on SMG#24, two new work items have been approved EDGE BSS, EDGE NSS
Jan 1998	CPM has been introduced as alternative modulation at SMG2 WPB
Feb 1998	1st joined SMG1/2/3/4 EDGE workshop, Helsinki
March-April 1998	EDGE requirements adhoc, Stockholm
April 1998	Presentation of radio requirements for EDGE, 8PSK has been introduced on the WPB#4 meeting.
May 98	Initial EDGE discussion in SMG2 WPA
	EDGE SMG2 working session on modulation proposes to have 8PSK as downlink modulation. For the uplink 8PSK and CPM have been discussed, but no proposal was agreeable.
	SMG2 #26 selected 8PSK as up and downlink modulation
August 98	EDGE workshop with focus on Link Adaptation, Coding, Modulation refinement with several input papers, but no decision
September 98	SMG2 WPB meeting, presentation of workshop results, presentation of updated papers concerning LA, coding and modulation. Sub group handled modulation aspects and training sequences.
	SMG2 WPA meeting, presentations of ECSD stage 2 description and signalling concepts, CRs on 04.08,08.08 and 08.58
September 98	SMG2 plenary with minor EDGE docs from WPA/WPB
October 98	SMG2 EDGE WS in Stockholm with focus on EGPRS and ECSD concept papers, link quality control and modulation
	Working assumptions being made for LQC and modulation
Nov 98	SMG2 approves CRs for 05.02 and 05.04
	3 LQC proposals are discussed following the working assumption from the workshop in Stockholm
Dec 98	EDGE workshop discussed the three different LQC proposals, but no agreement has been achieved
Jan 99	SMG2 WPA/WPB discussed and adopted the 2 BB link quality control proposal. A first draft for 03.64 according to the LQC proposal was presented. Additional first input on 05.05 and 05.08 was given.
Jan 99	SMG2 approves CR on 03.64
Mar 99	EDGE workshop #7 with focus on radio requirements, link adaptation and coding
Mar 99	Drafting group on 04.60
Apr 99	Drafting group on 05.05
Apr 99	SMG2 plenary, presentation of CRs for 05.05, 05.03 and 05.08
May 99	EDGE WS #8: discussion of radio requirements, 05 series, 04 series, harmonization with IS136
May 99	Presentation of CRs for 03.xx, 04.xx and 05.xx. All CRs have been approved.
Jun 99	EDGE WS #9: discussion of radio requirements, 05 series, 04 series, harmonisation with IS136. Agreement on channel coding for EGPRS and simulation assumptions for EGPRS and ECSD
Aug 99	EDGE WS #10: discussion of receiver performance for EGPRS and ECSD, EDGE compact CRs and EDGE phase II.
Sept 99	SMG32 meeting approves several CRs on EGPRS, ECSD and COMPACT
Oct 99	EDGE WS #11: Focus on startup of EDGE phase II, remaining discussion on EGPRS, ECSD and COMPACT. Receiver performance for still outstanding.
Dec 99	EDGE WS#12: Protocol and concept discussions for EDGE phase II, Receiver performance for EGPRS and ECSD. Principle agreement on MS performance for 900 MHz.
Jan 00	All remaining EDGE phase I activities have been closed and related CRs were approved. Few outstanding issues have been identified and will finally be concluded on the EDGE WS#13 in February. Protocol and concept discussions for EDGE phase II were continued.
Feb 00	Agreement on radio requirements for release 99. Error correction for EGPRS, ECSD and COMPACT

6.3   SMG3/TSG N1

August 98	Presentation of 10.59 and draft CRs to 04.08 CC and 03.34
October 98	CRs on 03.34 and 04.08 presented
Jan 99	SMG3 approves CR on 03.34
Mar 99	SMG3 WPA discussed signalling concepts
Aug 99	SMG3 WPA discussed CRs for ECSD
Sept 99	SMG3 WPA discussed CRs for ECSD asym and 03.60

6.4   SMG4

June 98	SMG4 EDGE workshop with focus on circuit switched data
September 98	Presentation of the EDGE concept, CRs on 04.21, 08.20, 07.01, 09.07
Dec 98	Discussion of EDGE CRs, additional WS planned for February
Feb 99	EDGE WS with discussion of TCHF43.2, CRs 04.21, 07.01, 08.20, 09.07 and 08.60
Mar 99	Six ECSD related CRs were approved, 04.21, 08.20, 07.01, 09.07, 04.22 and 07.02

6.5   SMG7

Dec 98	Presentation of concept and standardisation status of EDGE
Feb 99	Discussion on RF tests and LQC
May 99	SMG7 EDGE workshop with focus on RF tests
Aug 99	SMG7 EDGE workshop with focus on RF tests

6.6   SMG10

April 98	SMG10 has handled the LS from the first EDGE WS. A LS has been drafted to SMG1, 2, 3. SAGE shall be involved. Wait for input on coding schemes.
Mar 99	SMG10 decides to have encryption based on A5/1 algorithm for ECSD. SAGE shall approve this decision.
Aug 99	Approval of CR on 03.20 and LS concerning A5/1 algorithm

6.7   SMG12/TSG S2

August 98	Presentation of 10.59 and discussion of the architecture proposal for ECSD. Working assumption on ECSD, final decision postponed to next SMG12 plenary.
September 98	SMG12 agrees on principle of ECSD architecture, CR03.34 has been presented for information
November 98	CR on 03.60 has been presented
Jan 99	CR on 03.60 has been approved and will be sent to SMG3, since SMG12 will not continue it's work

7   Approvals Time Frame for EDGE

This clause will list new specifications and change requests for phase 1 and phase 2 for EDGE.

7.1   Time frame for different STCs

7.1.1   Phase 1

The first phase standards will specify the Enhanced GPRS (EGPRS) and Enhanced CSD (ECSD) including both single and multi slot services and EDGE compact.

Estimated road map of the phase 1 standards:

Start_Date	Finish_Date	Name	Scope	Input	Output
Mon 98-06-29	Tue 98-06-30	SMG4 EDGE	Impact of EDGE on SMG4 related specifications: Circuit switched service, interworking, system aspects	Discussion papers	Liaison SMG1 (service aspects), SMG2 (coding schemes), SMG12 (architecture)
Tue 98-07-28	Fri 98-07-31	SMG10			
Mon 98-08-10	Fri 98-08-14	SMG12	ECSD architecture	Liaison from SMG4, 10.59	Working assumptions on ECSD architecture
Wed 98-08-12	Thu 98-08-13	SMG2 EDGE	Physical/link layer workshop: Modulation refinement, Link adaptation, Coding schemes, Signalling, Standardisation	Discussion papers, liaison statements from SMG1 and SMG2	Input to SMG2 WPA and WPB meeting
Tue 98-08-25	Fri 98-08-28	SMG3 WPA	ECSD signalling	General signalling proposal for ECSD, draft CRs 04.08 CC, 03.34 10.59	Working assumption on ECSD signalling method
Mon 98-08-31	Fri 98-09-04	SMG2 WPB	Discussion of the workshop results	Liaison from SMG1, SMG4 EDGE, Documents from EDGE workshop	
Mon 98-09-07	Fri 98-09-11	SMG2 WPA	ECSD signalling	General signalling proposal, draft CRs	
Mon 98-09-14	Fri 98-09-18	SMG12	Agreement on ECSD architecture	Liaison from SMG4, 10.59	
Tue 98-09-15	Fri 98-09-18	SMG7	EDGE has been scheduled for next meeting		
Wed 98-09-16	Fri 98-09-18	SMG8	-		
Mon 98-09-21	Fri 98-09-25	SMG2	EDGE docs from WPA/WPB	WPB and WPA docs	10.59, V1.2.0 to SMG
Tue 98-09-22	Thu 98-09-24	SMG3	-		
Mon 98-09-28	Fri 98-10-02	SMG4	Discussion of the EDGE adhoc results	Adhoc report, possible draft CRs	
Mon 98-10-12	Fri 98-10-16	SMG #27	EDGE for information	10.59	
Mon 98-10-12	Mon 98-10-13	SMG2 EDGE WS	Preparation of a decision for link adaptation, coding and modulation	Technical papers on link adaptation, coding and modulation	
Mon 98-10-12	Mon 98-10-12	SMG8	-		
Mon 98-10-26	Thu 98-10-29	SMG3 WPA	ECSD	CR on 03.34, 04.08	
Mon 98-11-02	Fri 98-11-06	SMG1	Stage 1 descriptions for ECSD and EGPRS	CR on 02.34 and 02.60	
Mon 98-11-02	Fri 98-11-06	SMG2 WPA		ECSD/EGPRS concept papers	
Mon 98-11-02	Fri 98-11-06	SMG2 WPB	CR05.04, 05.02	ECSD and EGPRS concept papers, CR05.04, 05.02	CR05.04, 05.02 for SMG2
Mon 98-11-16	Fri 98-11-20	SMG2		CR05.04, 05.02 from SMG2 WPB	CR05.04, 05.02 for SMG for information
Tue 98-11-17	Fri 98-11-20	SMG10	-	-	
Mon 98-11-23	Fri 98-11-27	SMG12	Stage 2 discussion	CR03.60	
Wed 98-12-02	Fri 98-12-04	SMG2 EDGE WS	LQC and concept discussion	Documents concerning LQC and EDGE concept	Comparison table on 4 LQC proposal
Mon 98-12-07	Fri 98-12-11	SMG4	Handling of EDGE CRs	CR on	
Mon 98-12-14	Thu 98-12-17	SMG7	First presentation of EDGE	First input concerning test cases, 10.59 V1.7.0	EDGE Ad hoc meeting proposal
Mon 99-01-11	Fri 99-01-15	SMG2 WPA	Concept papers, LQC proposal discussion	10.59, ECSD & EGPRS concept, CR 03.64	Working assupmtion for LQC
Mon 99-01-11	Fri 99-01-15	SMG2 WPB	Concept papers, LQC proposal discussion, radio requirements	10.59, ECSD & EGPRS concept, 05.05, 05.08, CR 03.64	Working assumption for LQC
Mon 99-01-18	Fri 99-01-22	SMG12	EGPRS	CR03.60	CR03.60 approved
Mon 99-01-25	Fri 99-01-29	SMG2	EGPRS	10.59, CR03.64	10.59, Status report to SMG#28, 03.64 approved
Mon 99-01-25	Tue 99-01-26	SMG3 WPA	ECSD	CR03.34	CR03.34 approved
Wed 99-01-27	Fri 99-01-29	SMG3	ECSD & EGPRS	CR03.34, CR03.60	CR03.34, CR03.60
Mon 99-02-08	Fri 99-02-12	SMG #28		Stage 1 CRs for 02.34 and 02.60 Status report	
Wed 99-02-17	Thu 99-02-18	SMG4 EDGE adhoc	RLP discussion, LQC for ECSD	Draft CRs on 04.21, 07.01, 08.20, 09.07,08.60 TCHF43.2 discussion	Output paper on TCHF43.2

Start_Date	Finish_Date	Name	Scope	Input	Output
Thur 99-02-25	Fri 99-02-26	SMG7 EDGE Ad hoc	Discussion of test case modifications and planning of work	List of test cases	Refined list of test cases
Mon 99-03-01	Thu 99-03-04	SMG4	SMG4 EDGE workshop results	Draft CRs on 04.21, 07.01, 08.20, 09.07,08.60 TCHF43.2 discussion	
Tue 99-03-02	Tue 99-03-04	SMG2 EDGE WS	LQC, 05.05, Coding, ECSD, EGPRS	Draft CRs on 05.05, concept papers	
Mon 99-03-08	Fri 99-03-12	SMG1		Mobile capability	
Mon 99-03-15	Fri 99-03-19	SMG2 WPA	EGPRS LQC	CR04.60, CR04.64	
Mon 99-03-22	Thu 99-03-25	SMG3 WPA	Signalling for ECSD and EGPRS	CR04.08	
Tue 99-03-30	Wed 99-03-31	EDGE 04.60 drafting	RLC/MAC	CRs 04.60	
Wed 99-04-07	Thu 99-04-08	EDGE 05.05 drafting	Radio requirements	CRs 05.05	
Mon 99-04-12	Fri 99-04-16	SMG2 WPA/B/C/P	Radio requirements, RLC/MAC	CR05.03, 05.05, 04.60	
Tue 99-04-13	Fri 99-04-16	SMG7			
Wed 99-04-21	Fri 99-04-23	SMG3 WPA			
Mon 99-05-17	Wed 99-05-19	EDGE WS #8	05 series, 04 series, US harmonisation		
Tue 99-05-31	Fri 99-06-04	SMG3	Signalling for ECSD and EGPRS		
Mon 99-05-31	Fri 99-06-04	SMG2 WPA/B/P	05 series, 04 series		
Mon 99-05-31	Thu 99-06-03	SMG4	Asymmetrical services		
Tue 99-06-08	Fri 99-06-11	SMG7			
Mon 99-06-21	Fri 99-06-25	SMG #29		Stage 3 CRs	
Mon 99-06-21	Wed 99-06-23	EDGE WS #9	Outstanding issues, 05.03 EGPRS, asymmetry, fast power control, EDGE compact		
Mon 99-07-05	Fre 99-07-09	SMG1	Service requirements for EDGE phase II		
Tue 99-08-03	To 99-08-05	SMG10	CR on ciphering		
Mon 99-07-19	Fre 99-09-23	SMG3 WPA	04.08 asymmetry, FPC		
Tue 99-08-24	Tor 99-08-27	EDGE WS #10 (SMG2 + 7)	05 receiver performance, implementation margin, EDGE compact, 05.03	Stage 3 CRs for approval for SMG2	
Tue 99-09-13	Fri 99-09-17	SMG3 WPA		ECSD asymmetry	
Mon 99-09-20	Fri 99-09-24	SMG2 WPA/B/C/P	05.05. 05.03, EDGE compact, EDGE phase II discussion	CR05.03, EGPRS finalization, ECSD finalization, 05.05 discussion	
Mon 99-09-20	Fri 99-09-24	SMG4			
Tue 99-10-18	Thu 99-10-22	EDGE WS #11 (SMG2)	Remaining EDGE phase I issues, EDGE compact, EDGE phase II	EGPRS finalization, ECSD finalization, COMPACT finalization	
Tue 99-10-19	Fri 99-10-22	SMG7			
Mon 99-11-08	Fri 99-11-11	SMG #30	Aprroval of EDGE phase I CRs		
Mon 99-11-08	Fri 99-11-12	SMG1			
Mon 99-11-22	Fri 99-11-26	SMG2 WPA/B/C/P			
Tue 99-12-13	Fri 99-12-16	EDGE WS #12 (SMG2 +7)	Final issues EDGE phase I		
Mon 00-01-10	Fri 00-01-14	SMG2 WPA/B/C	Final EDGE phase I issues		
Mon 00-02-14	Fri 00-02-18	SMG #31			
Mon 00-02-23	Tor 00-02-25	EDGE WS #13	EDGE phase II, EDGE BTS performance		
Mon 00-04-03	Fri 00-04-07	SMG2 #35	Final approval for 05.05		

7.1.2   Phase 2

7.2   EDGE phase 2 will be handled in the GERAN project plan 10.99.

7.3   New Specifications

No new specifications are foreseen.

7.4   Change Requests (EGPRS, ECSD Phase 1)

Here all change requests being handled on STC level are listed.

GSM No.	TDOC	CR	Subject	CR Comp. Resp.	STC	Completion Date
02.07					SMG1	
		CR0207A017	Mobile station features	Ericsson		✔→ #29
02.34					SMG1	
		CR0234A008	HSCSD stage 1 description	Nokia		✔→ #28
02.60					SMG1	
		CR0260A010	GPRS stage 1 description	Ericsson		✔→ #28
03.10					SMG4	
	T2-99174	CR0310A010	GSM Public Land Mobile Network (PLMN) connection types	Nokia		✔→ #29
03.20					SMG10	
	AP99-100	CR0320A	A5/1 changes concerning ECSD	Nokia		✔→ #30
03.34					SMG3	
		CR0334A004R4	HSCSD Stage 2 description	Nokia		✔⚘
	N1-99882	CR 03.34A007	Modifications due to ECSD asymmetry	Nokia		
03.60					SMG12	
		CR0360A103	GPRS stage 2 description	Ericsson		✔⚘
	N1-99592	CR0360A116	Tunneling of non GSM messages	UWCC		✔→ #29
03.64					SMG2	
	2-99-847	CR0364A054R2	GPRS stage 2 description	Nokia		✔→ #29
	2-99-992	CR0364A058	EGPRS fine tuning	Nokia		✔→ #30
	2-99-H23	CR0364A067R1	Correction for EGPRS	Nokia		✔→ #30bi
	2-99-H25	CR0364A067R1	Introduction of Incremental Redundancy between different coding schemes in EGPRS	Nokia		✔→ #30bi
	2-00-0734	CR0364A069	8-PSK support in UL			✔→ #31bi
04.04					SMG2	
	2-99-1004	CR0404A004	Fast Power Control for ECSD	Nokia		✔→ #30
	2-99-993	CR0404A005	Introduction of PDTCH	Nokia		✔→ #30
04.08					SMG2/3	
	N1-99178	CR0408A371R2	BCIE modification due to EDGE	Nokia	SMG3	✔⚘
	N1-99778	CR 24.008-A014	BCIE modifications due to ECSD asymmetry	Nokia, Ericsson	SMG3	✔→ #30
	2-99-671	~~CR0408A356R2~~ CR0408A562	Class mark modification CR due to EDGE	Nokia	SMG2	✔→ #29
04.18					SMG2	
	2-99-1000	CR0418A004	Modifiaction due to Asymmetry	Nokia		✔→ #30
	2-99-1006	CR0418A005	Fast power control	Nokia		✔→ #30
	2-99-1403	CR0418A008	Immediate assignment, PDTCH	Nokia		✔→ #30
	2-00-0494	CR0418A063R1	Alignment of 04.18 with 04.60 for EGPRS Downlink Assignments			✔→ #31
	2-00-0856	CR0418A097	IA Rest Octets IE			✔→ #31bi
	2-00-928	CR0418A056R1	EGPRS TBF Establishment ofn CCCH			✔→ #31bi
	2-00-929	CR0460A624R6	MS RAC impacts on One Phase and Two Phase Access procedures			✔→ #31bi
	2-00-937	CR0460A841	Corrections of neighbour cell parameters in PSI3bis			✔→ #31bi
04.21					SMG4	
	T2-99175	CR0421A014	EDGE changes for transmission Formats	Nokia		✔→ #29

04.22						SMG4	
	T2-99179	CR0422A023	EDGE changes for RLP	Nokia			✔→ #29
04.60						SMG2	
	2-99-848	CR0460A366R1	CR clause 1-8	Ericsson			✔→ #29
	2-99-659	CR0460A367	CR clause 9	Ericsson			✔→ #29
	2-99-850	CR0460A368R1	CR clause 10	Ericsson			✔→ #29
	2-99-851	CR0460A369R2	CR clause 11-12	Ericsson			✔→ #29
	2-99-1402	CR0460A439R1	CR clause 1-8	Ericsson			✔→ #30
	2-99-948	CR0460A443	CR clause 9	Ericsson			✔→ #30
	2-99-995	CR0460A440	CR clause 10	Ericsson			✔→ #30
	2-99-949	CR0460A444	CR clause 11-12	Ericsson			✔→ #30
	2-99-1401	CR0460A445R1	CR clause 8 resegment bit clarification	Ericsson			✔→ #30
	2-99-1025	CR0460A446	CR clause 11-12 LQC measurements	Ericsson			✔→ #30
	2-99-1346	CR0460A453	Improvements to Clause 9	Ericsson			✔→ #30
	2-99-1323	CR0460A454	Improvements to Clause 9	Ericsson			✔→ #30
	2-99-1323	CR0460A455	Improvements to Clause 9	Ericsson			✔→ #30
	2-99-1840	CR0460A593R2	EGPRS IR modes MCS-5-7	Ericsson			✔→ #30bi
	2-99-1659	CR0460A654	Update of timer T3198	Ericsson			✔→ #30bi
	2-99-1804	CR0460A694	Transmission of TLLI in each RLC data block	Ericsson			✔→ #30bi
	2-00-0196	CR0460A595	EGPRS Link Quality Measurements				✔→ #31
	2-00-0044	CR0460A725	EGPRS ACK/NACK Description Correction				✔→ #31
	2-00-0045	CR0460A726	TLLI Channel Coding Description				✔→ #31
	2-00-0510	CR0460A727R1	Indicate resent block in RLC/MAC header				✔→ #31
	2-00-0520	CR0460A760R3	Filtering for EGPRS LQC measurements				✔→ #31
	2-00-0540	CR0460 A798	Order of FBI/TI and E bits in RLC/MAC headers				✔→ #31bi
	2-00-0854	CR0460 A799	GPRS and EGPRS TBF modes for a single MS				✔→ #31bi
	2-00-0542	CR0460A800	Clarification on the handling of BEP_PERIOD2				✔→ #31bi
	2-00-0543	CR0460A801	Clarification on bitmap compression in ACK/NACK IE				✔→ #31bi
	2-00-0671	CR0460A810	Error in CR introduction for PACKET DL ASSIGNMENT				✔→ #31bi
	2-00-0858	CR0460A811	Inconsistency in PACKET TIMESLOT RECONFIGURE about window size				✔→ #31bi
	2-00-0674	CR0460A813	Cell selection parameters in PSI3 for COMPACT				✔→ #31bi
	2-00-0618	CR0460A817	Addition of Index and Count Variables for PSI6 and PSI7 messages				✔→ #31bi
	2-00-0650	CR0460A820	Cell Bar Qualify 2 parameter messages				✔→ #31bi
	2-00-0726	CR0460A828	CSN.1 coding corrections of PSI3 and PSI3bis				✔→ #31bi
04.64						SMG12	
	N1-99593	CR0464A070	Tunneling of non-GSM messages	UWCC			✔→ #29
05.01						SMG2	
	2-99-800	CR0501A018R1	Changes for EDGE ECSD/EGPRS	Ericsson			✔→ #29
	2-99-997	CR0501A021	Introduction of the PDTCH for EGPRS	Nokia			✔→ #30
05.02						SMG2	
	2-99-590	CR0505A046R4	Burst structure changes due to modulation	Ericsson			✔→ #28
	2-99-801	CR0505A018R1	Changes for E-FACCH	Nokia			✔→ #29
	2-99-1390	CR0502A084R1	Introduction of FPC for ECSD	Nokia			✔→ #30
	2-99-1391	CR0502A083R1	New training sequences for access burst	Nokia			✔→ #30
	2-00-0545	CR0502A144	Correction of Figure D.4				✔→ #31bi
	2-00-0649	CR0502A149	Correction of NIB parameters				✔→ #31bi
05.03						SMG2	
	2-99-802	CR0503A022R1	Channel coding for ECSD	Nokia			✔→ #29
	2-99-1193	CR0503A030	Correction to E-FACCH/F interleaving	Nokia			✔→ #30
	2-99-1008	CR0503A023R2	Introduction of FPC	Nokia			✔→ #30
	2-99-999	CR0503A025	EGPRS channel coding	Motorola			✔→ #30
	2-99-H66	CR0503A033	Correction of EGPRS channel coding	Ericsson			✔→ #30bi
	2-00-0352	CR0503A037	Correction for EGPRS Channel Coding				✔→ #31
	2-00-0253	CR0503A036	Editorial correction for ECSD channel coding	Nokia			✔→ #31
	2-00-0737	CR0503A039	Fast Inband Signalling: E-IACCH				✔→ #31bi
05.04						SMG2	
	s298-453	CR0504A001	Modulation changes	Ericsson			✔→ #28
05.05						SMG2	
	2-99-615	CR0505A100	Output level dynamic operations	Ericsson			✔→ #29
	2-99-805	CR0505A102R1	**Blocking performance for EDGE**	Ericsson			✔→ #29
	2-99-827	CR0505A103R1	Power classes for EDGE MS	Ericsson			✔→ #29
	2-99-829	CR0505A104R1	Modulation accuracy	Ericsson			✔→ #29
	2-99-830	CR0505A105R1	**Spectrum mask for EDGE**	Ericsson			✔→ #29
	2-99-806	CR0505A106R1	Performance on high input level	Ericsson			✔→ #29
	2-99-828	CR0505A108R1	Power classes for EDGE BTS	Ericsson			✔→ #29

	2-99-987	CR0505A115	Blocking for micro and pico-BTS	Ericsson		✔→ #30
	2-99-D34	CR0505A126	8-PSK requirement for GSM 400	Ericsson		✔→ #30
	2-99-D83	CR0505A117R1	850 MHz and 1900 MHz Mixed-Mode	Nortel		✔→ #30
	2-99-D85	CR0505A118R1	Frequency comp.requirements	Ericsson		✔→ #30
	2-99-D86	CR0505A119R2	Mod accuracy for MS and BTS	Ericsson		✔→ #30
	2-99-D87	CR0505A114R1	Output level Dynamic operation in EDGE	Ericsson		✔→ #30
	2-99-1426	CR0505A127	PCS1900 modulation requirements	Ericsson		✔→ #30
	2-00-0503	CR0505A101R5	Transmitter/receiver performance for EDGE			✔→ #31
	2-00-0460	CR0505A134R1	Measurement Filter for EDGE EVM			✔→ #31
	2-00-0505	CR0505A135R2	Alignment of measurement filter reference in Annex G			✔→ #31
	2-00-0056	CR0505A136	Clarification of Intra BTS Intermodulation Attenuation requirments for MXM 850 and MXM 1900 BTS			✔→ #31
	2-00-0057	CR0505A137	Clarification of Intra BTS Intermodulation Attenuation requirments for PCS 1900 BTS			✔→ #31
	2-00-0058	CR0505A138	Definition of MS for Mixed-mode network			✔→ #31
	2-00-0059	CR0505A139	Correction to Output level dynamic operation			✔→ #31
	2-00-0504	CR0505A141R1	Nominal Error Rate performance for EDGE			✔→ #31
	2-00-0063	CR0505A142	Corrections to receiver Characteristics for EDGE			✔→ #31
	2-00-0384	CR0505A149	EVM requirements for EDGE BTS transmitter with combining equipment			✔→ #31
	2-00-0451	CR0505A150	Introduction of Incremental Redundancy Receiver Performance for MS			✔→ #31
	2-00-0482	CR0505A151	Switching Transients for 8-PSK Modulation			✔→ #31
	2-00-0916	CR0505A154R2	Completion of GSM 05.05 for EDGE and clean-up			✔→ #31bi
05.08					SMG2	
	2-99-807	CR0508A085R6	EDGE on BCCH carrier	Nokia		✔→ #29
	2-99-J41	CR0508A147R6	Fast Power Control for ECSD	Nokia		✔→ #30bi
	2-99-H27	CR0508A181R2	Link Quality Control measurements for EGPRS	Nokia		✔→ #30bi
	2-00-0502	CR0508A240R3	EGPRS Link Quality Control measurements			✔→ #31
	2-00-0452	CR0508A244	Introduction of Example of EGPRS Link Adaptation Algorithm			✔→ #31
	2-00-651	CR0508A249	Clarification of Cell Bar Qualify 2 parameter			✔→ #31bi
	2-00-736	CR0508A266	Fast inband signalling: E-IACCH			✔→ #31bi
	2-00-861	CR0508A268	EGPRS Link Quality measurements			✔→ #31bi
05.10					SMG2	
	2-00-0062	CR0510A050	Modifications for 8-PSK			✔→ #31
05.50					SMG2	
	2-00-0458	CR0550A011R1	8-PSK scenarios in GSM 05.50			✔→ #31
07.01					SMG4	
	T2-99177	CR0701A037	Support for circuit switched channels (ECSD)	Nokia		✔→ #29
07.02					SMG4	
		CR0702A014	Support for circuit switched channels (ECSD)	Nokia		✔→ #29
07.03					SMG4	
	N3-99063	CR0703A???	Introduction of EDGE(ECSD)	Nokia		✔→ #29
08.08					SMG2	
		~~CR0808A113~~	Modifications to channel type	Nokia		
	2-99-846	CR0808A151R2	Changes due to EDGE	Nokia		✔→ #29
	2-99-1002	CR0808A152R2	ECSD asymmetry	Nokia		✔→ #30
08.18					SMG2	
	2-99-1282	CR0818A078	MS Radio Access Capability	Nokia		✔→ #30
08.20					SMG4	
	T2-99176	CR0820A006	EDGE changes for tranmsission formats	Nokia		✔→ #29
	N3-99179	CR0820A007	Asymmetric Channel Coding	Nokia		✔→ #30
08.58					SMG2	
		~~CR0858A026~~	Modifications to channel mode	Nokia		
	2-99-673	CR0858A035	Changes due to EDGE	Nokia		✔→ #29
	2-99-1001	CR0858A036	ECSD Asymmetry	Nokia		✔→ #30
	2-99-1406	CR0858A037	Modification due to FPC	Nokia		✔→ #30
08.60					SMG4	
	2-99-1003	CR0820A009	EDGE changes for tranmsission formats	Nokia		✔→ #29
09.07					SMG2	
	T2-99178	CR0907A051	Support for circuit switched channels (ECSD)	Nokia	SMG4	✔→ #29
09.18					SMG2	
	N1-99594	CR0918A028	Gs interface changes to support tunneling of non-GSM messages	UWCC	SMG12	✔→ #29
11.21					SMG2	
	2-00-0442	CR1121A119R2	Modification of EDGE & PCS 1900 Tx test cases			✔→ #31
	2-00-0449	CR1121A120R2	EDGE RX test cases			✔→ #31
	2-00-0481	CR1121A121R1	Switching Transients for 8-PSK			✔→ #31

	2-00-0865	CR1121A122R1	EDGE TX-test cases and uncertainties			✔→ #31bi
	2-00-0868	CR1121A123R1	EDGE radio link management test cases			✔→ #31bi
	2-00-0869	CR1121A125R2	Changes in clause 7 due to EDGE and GSM850			✔→ #31bi
	2-00-0866	CR1121A011R2	Repeater EDGE & GSM 400 test cases			✔→ #31bi
23.034					SMG3/T SG N1	
	N1-99118	CR23034A001R2	Introduction of asymmetry	Nokia		✔→ #30
24.008					SMG3/T SG N1	
	N1-99116	CR24008A014R1	BCIE modification for asymmetry	Nokia		✔→ #30
	N1-99117	CR24008A028R1	MS RAC modification	Nokia		✔→ #30
27.007					SMG3/T SG N1	
	T2-99566	CR27007A	ECSD addition	Ericsson		✔
	T2-99567	CR27007A	ECSD asymmetry	Ericsson		✔
	T2-99661	CR27007A	ECSD AT command correction	Ericsson		✔

✔	Approved.
†	Set on hold.
→ #29	Send to SMG #29.
~~CR0000A000~~	CR has been cancelled.
Change Requests (EDGE phase 1, COMPACT).	

Here all change requests being handled on STC level are listed.

GSM No.	TDOC	CR	Subject	CR Comp. Resp.	STC	Completion Date
03.22					SMG2	
	2-99-F47	CR0322A043R2	EDGE Compact cell selection part 1	Ericsson	SMG2	✔→ #30bi
	2-99-G34	CR0322A046	EDGE Compact cell selection part 2	Ericsson	SMG2	✔→ #30bi
03.30					SMG2	
	2-99-1072	CR0330A006	Radio Network Planning Aspects			✔→ #30
03.60					SMG12	
		CR0360A116r4	Tunneling of messages	Motorola		✔→ #29
03.64					SMG2	
	2-99-1396	CR0364A060R1	Introduction of Compact logical channels	Nortel		✔→ #30
	2-99-1399	CR0364A059R1	COMPACT Cell Selection	Ericsson		✔→ #30
04.03					SMG2	
	2-99-1409	CR0403A006R1	Introduction of compact logical channels			✔→ #30
04.18					SMG2	
	2-99-1419	CR0418A006R1	Compact Cell Reselection	Ericsson		✔→ #30
	2-99-1133	CR0418A015	EDGE Compact and support for EGPRS in ANSI-136 networks	Ericsson		✔→ #30
	2-00-0479	CR0418A003R3	Non-GSM Broadcast Information			✔→ #31
	2-00-0477	CR0418A038R2	EGPRS COMPACT Cell Selection, Cell Bar Qualify 2			✔→ #31
	2-00-0055	CR0418A064	Support for packet pause procedure for mobile stations capable of non-GSM circuit operation			✔→ #31
	2-00-0150	CR0418A065	COMPACT Cell Selection, Cell Bar Qualify 2 removal			✔→ #31
	2-00-0225	CR0418A068	Emergency Call Handling in COMPACT			✔ #31
	2-00-0853	CR0418A081	COMPACT : impact of new block ordering on SI19			✔→ #31bi
	2-00-538	CR0418A082	Addition of CSCH description			✔→ #31bi
04.60					SMG2	
	2-99-1417	CR0460A441R1	Compact Control channel	Nortel		✔→ #30
	2-99-1418	CR0460A442R1	EDGE compact cell reselection	Ericsson		✔→ #30
	2-99-1975	CR0460A495R3	Compact cell selection	Ericsson		✔→ #30bi
	2-00-0478	CR0460A426R4	Non-GSM Broadcast information			✔→ #31
	2-00-0493	CR0460A729R1	Packet pause procedure for mobile stations capable of non-GSM circuit operation			✔→ #31
	2-00-0480	CR0460A730R1	COMPACT interference measurements			✔→ #31
	2-00-0490	CR0460A751R2	Frequency hopping of block ordering for COMPACT			✔→ #31
04.64					SMG3	
		CR0464A070	Tunneling of messages	Motorola		→ #29
05.01					SMG2	
	2-99-1394	CR0501A022R1	COMPACT introduction	Nortel		✔→ #30
	2-99-J53	CR0501A023R1	Support of Slow Frequency Hopping for EGPRS COMPACT	Nortel		✔→ #30bi
	2-00-0467	CR0501A024R1	Complete Frequency Hopping on COMPACT			✔→ #31
05.02					SMG2	

	2-99-933	CR0502A081	Non-GSM Broadcast Information	Ericsson		✔→ #30
	2-99-1398	CR0502A082R1	COMPACT cell selection	Ericsson		✔→ #30
	2-99-1430	CR0502A085R2	COMPACT introduction	Nortel		✔→ #30
	2-99-J92	CR0502A107R2	COMPACT Logical Channels	Nortel		✔→ #30bi
	2-99-F37	CR0502A109	Extended Training Sequence Code C-ETSC specific to COMPACT synchronization bursts only	Motorola		✔→ #30bi
	2-99-J54	CR0502A110R1	Support of Slow Frequency Hopping for COMPACT	Lucent		✔→ #30bi
	2-99-F42	CR0502A111	Synchronisation of 52-multiframes in EGPRS COMPACT	Nortel		✔→ #30bi
	2-99-J83	CR0502A120	Compact FCCH	Motorola		✔→ #30bi
	2-00-0145	CR0502A128	Timegroup rotation and NIB Clarification			✔→ #31
	2-00-0146	CR0502A129	Clarifications in 05.02			✔→ #31
	2-00-0222	CR0502A133	USF Handling in COMPACT			✔→ #31
	2-00-0464	CR0502A127R1	COMPACT interference measurements			✔→ #31
	2-00-0468	CR0502A143R1	Complete Frequency Hopping on COMPACT			✔→ #31
05.03					SMG2	
	2-99-1395	CR0503A027R1	COMPACT introduction	Nortel		✔→ #30
05.05					SMG2	
	2-99-1392	CR0505A027R1	Frequency Bands and Channel Arrangement for 850 MHz	Nortel		✔→ #30
05.08					SMG2	
	2-99-J56	CR0508A180R3	COMPACT Cell Selection and Reselection	Ericsson		✔→ #30bi
	2-00-0506	CR0508A203R3	COMPACT interference measurements			✔→ #31
	2-00-0465	CR0508A234R1	COMPACT RF power control			✔→ #31
	2-00-0469	CR0508A243R1	Missing GSM 850 requirements for Classic BCCH			✔→ #31
05.10					SMG2	
	2-99-1393	CR0510A038R1	COMPACT introduction	Nokia		✔→ #30
	2-99-J55	CR0510A043	Synchronization of 52-multiframes in EGPRS COMPACT	Nortel		✔→ #30bi
	2-00-0144	CR0510A051	Timegroup definition removal from 05.10			✔→ #31
	2-00-0539	CR0510A054	EGPRS Classic to COMPACT BTS synchronisation			✔→ #31bi
05.50					SMG2	
	2-99-A09	CR0550A008	850 and 1900 Mhz Mixed Mode	Nortel		✔→ #30
09.18					SMG3	
		CR0918A028	Tunneling of messages	Motorola		→ #29
23.040					SMG3	
		CR23040A???	Delivery of Short Message via Gd Interface	Lucent		→ #30
✔	Approved.					
†	Set on hold.					
→ #29	Send to SMG #29.					
~~CR0000A000~~ CR has been cancelled.						

7.5   Possible CRs required (Phase 1, EGPRS and ECSD)

The darkened fields indicate, that these CR's are already handled and approved by the responsible STC. The textured fields indicate, that the work on these CRs have been started on workshop or STC level.

Name	Title	Resp. STC	Target SMG	Resource_Names	Changes
CR STAGE 1					
02.34/ 22.0034	High Speed Circuit Switched Data (HSCSD) - Stage 1	SMG1	SMG #28	Ahti Muhonen (Nokia)	
02.60/ 22.0060	"General Packet Radio Service; Service Description Stage 1"	SMG1	SMG #28	Frank Mueller (Ericsson)	
CR STAGE 2					
03.34/ 23.0034	HSCSD Stage 2	SMG2/SMG 12	SMG #28	Shkumbin Hamiti (Nokia)	
03.60/ 23.0060	"General Packet Radio Service; Service Description; Stage 2"	SMG2/SMG 12	SMG #28	Krister Sällberg (Ericsson)	
03.64	"General Packet Radio Service; Overall Description of the GPRS Radio Interface; Stage 2"	SMG2/SMG 12	SMG #28	Eero Nikula (Nokia)	
CHANGE REQUESTS					
01.04	Abbreviations and acronyms	?	SMG #29		EDGE abbreviations
01.60	"General Packet Radio Service (GPRS);	?	SMG #29		

Name	Title	Resp. STC	Target SMG	Resource_Names	Changes
	Terms and Definition"				
02.07	Mobile Stations features	SMG1	SMG #29	Frank Mueller (Ericsson)	MS types and capabilities
03.10	GSM Public Land Mobile Network (PLMN) connection types	SMG4	SMG #29	Marko Valo (Nokia)	Rate adaptation
03.20	Security related network functions	SMG10/SMG2	SMG #29		Security aspects, ciphering
03.30	Radio network planning aspects	SMG2	SMG #29		
04.04	layer 1 General requirements	SMG2WPA	SMG #29	Shkumbin Hamati (Nokia)	PDTCH
24.008 CC	Mobile radio interface layer 3 specification	SMG3WPA	SMG #29	Shkumbin Hamiti (Nokia)	New channel codings, new data rates in bearer capability?
24.008 MM	Mobile radio interface layer 3 specification	SMG3WPA	SMG #29	Shkumbin Hamiti (Nokia)	MS Classmark
24.008 SM	Mobile radio interface layer 3 specification	SMG3WPA	SMG #29	Shkumbin Hamiti (Nokia)	
04.18 RR	Mobile radio interface layer 3 specification	SMG2WPA	SMG #29	Shkumbin Hamiti (Nokia)	New channel modes, etc.
04.21	Rate adaptation on the Mobile Station - Base Station System (MS - BSS) interface	SMG3 WPD	SMG #29	Marko Valo (Nokia)	Transmission formats, rate adaptation functions, ECSD Asym.
04.22	Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface	SMG4	SMG #29	Erik Colban (Ericsson)	RLP formats
04.60	"General Packet Radio Service; MS - BSS interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol"	SMG2WPA	SMG #29	Anders Fururskär (Ericsson)	"Channel Quality Report message, MS classmark, QoS, RLC; frame length/frame numbering/retransmission"
05.01	Physical layer on the radio path General description	SMG2WPB	SMG #29		Outstanding: Changes due to burst structure
05.02	Multiplexing and multiple access on the radio path	SMG2WPB	SMG #28	Bengt Persson (Ericsson)	Training sequences, burst format, channel mapping, mobile classes
05.03	Channel coding	SMG2WPB	SMG #29	Nokia (ECSD) Motorola (EGPRS)	ECSD and EGPRS coding schemes
05.04	Modulation	SMG2WPB	SMG #28	Bengt Persson (Ericsson)	New modulation(s)
05.05	Radio transmission and reception	SMG2WPB	SMG #31	Mats Samuelsson (Ericsson)	Power classes, spectrum requirements, reference performance, link adaptation
05.08	Radio subsystem link control	SMG2WPB	SMG #29	Mats Larsson, (Nokia)	Measurement reporting
05.10	Radio subsystem synchronisation	SMG2WPB	SMG #29	Mats Samuelsson	
05.50	Background for RF Requirements.	SMG2WPB	SMG #29	Eric Johnsson (Nortel)	Adding performance simulations
07.01 27.001	General on Terminal Adaptation Functions for MSs	SMG3 WPD	SMG #29	Marko Valo (Nokia)	BCIE parameters, , ECSD Asym.
07.02	Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities	SMG4	SMG #29	Erik Colban (Ericsson)	L2R ?
07.03	Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities	SMG4	SMG #29	Erik Colban (Ericsson)	L2R ?
07.07 27.007	AT Command set for GSM Mobile Equipment (ME)	SMG4	SMG #29	Sten Ketil (Ericsson)	Expansion of AT commands for EDGE
08.08	Mobile Switching Centre - Base Station System (MSC – BSS) interface Layer 3 specification	SMG2WPA	SMG #29	Marko Valo	A interface signalling, channel type, etc., , ECSD Asym.
08.18	"BSS - SGSN interface; Gb Interface; BSS-SGSN GPRS Protocol (BSSGP); Layer 3"	SMG2WPA	SMG #29		MS RAC
08.20	Rate adaptation on the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface	SMG4	SMG #29	Marko Valo (Nokia)	Transmission formats, rate adaptation functions, ECSD Asym.
08.58	Base Station Controller - Base Transceiver Station (BSC - BTS) interface Layer 3	SMG2WPA	SMG #29		Abis signalling, channel types, ECSD

Name	Title	Resp. STC	Target SMG	Resource_Names	Changes
	specification				Asym.
08.60	Inband control of remote transcoders and rate adaptors	SMG2	SMG #29	Marko Valo (Nokia)	TRAU, ECSD Asym.
09.07 29.007	General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	SMG3 WPD	SMG #29	Nokia	BCIE parameters, ECSD Asym.
11.10	Mobile Station (MS) conformity specification	SMG7	SMG #31	Ericsson/Nokia/Motorola	EDGE capable MS requirements
11.21	GSM Radio Aspects Base Station System Equipment	SMG8	SMG #31	Åke Busin (Ericsson)	EDGE capable BTS requirements
11.26	Repeaters	SMG8	SMG #31	Allgon	

7.6 Possible CRs required (Phase 1, COMPACT)

The darkened fields indicate that these CR's are already handled and approved by the responsible STC. The textured fields indicate, that the work on these CRs have been started on workshop or STC level.

Name	Title	Resp. STC	Target SMG	Resource Name	Changes
01.04	Abbreviations and acronyms	SMG1		AWS	Add Abbreviations and acronyms for E-GPRS COMPACT. Band-independent.
01.60	General Packet Radio Service (GPRS); Terms and Definition	SMG1			Add requirements for new packet control channel (?). Add requirements for E-GPRS COMPACT network interworking. Clauses 3.2.4 and 3.2.4.1 may need to be updated to cover EGPRS and 136 HS. Band-independent.
02.06	Types of Mobile Stations (MS)	SMG1		Ericsson	Require all EGPRS MS in the 850 or 1900 MHz band to support EDGE Compact.
02.11	Service Accessibility	SMG1		Ericsson	Modify for cell selection.
02.17	Subscriber Identity Modules, Functional Characteristics	SMG9		AWS/Motorola/ Nortel Networks/ SBC	SIM, 850 MHz option to be added or band independent text instead (Editorial
02.40	Procedures for Call Progress Indications	SMG3, SMG1			Call progression Indications, 850 MHz to definitions or band independent text instead (Editorial)
02.60	General Packet Radio Service; Service Description Stage 1	SMG1			Add Stage 1 description for E-GPRS COMPACT
03.20	Security Related Network Functions	SMG2, SMG10, SMG3		SBC, AWS	Roaming between an IS136-HS and GSM?
03.22	Functions related to Mobile Station (MS) in idle mode	SMG3 SMG2		Ericsson	Introduce initial PLMN and cell selection for EDGE Compact.
03.30	Radio network planning aspects	SMG2		Nokia	Editorial changes only.
03.40	Technical Realization of the Short Message Service (SMS) Point-to-point (PP)	SMG4		Nortel Networks	Define new PDU type for SM-TL
03.60/ 23.060	General Packet Radio Service; Service Description; Stage 2"	SMG12		Motorola	To provide a generic mechanism for the exchange of signalling between an MS and a non-GSM MSC/VLR, transparently through the SGSN.
03.64	General Packet Radio Service; Overall Description of the GPRS Radio Interface;	SMG2 SMG3		Nortel Networks/Er	EDGE Compact logical channels need to be included in

Name	Title	Resp. STC	Target SMG	Resource Name	Changes
	Stage 2			icsson	GSM 03.64. Add new control channel description – CPCCCH, CPRACH, CPPCH, CPAGCH, CPNCH, CPBCCH. *New Channel *PSCH/ PFCCH *Multi-frame structure for PDCH. Add Stage 2 description for EDGE Compact. Describe cell re-selection in EDGE Compact and between EDGE Classic and EDGE Compact; To support EDGE Compact which makes it possible to deploy a EDGE system in less than 1 MHz of spectrum. The changes are required to specify neighbour measurements at reselection.
04.03	Mobile Station - Base Station System (MS – BSS) interface; Channel structures and access capabilities	SMG2		Nortel Networks/ Ericsson	Define EDGE Compact logical channels.
04.04	Layer 1 General requirements	SMG3 SMG2WPA			Note that EGPRS is not currently addressed in the doc.
24.008	Mobile Radio Interface Layer 3 Specificiation (CC/MM)	3GPP , TSG-CN, WG1		Ericsson	Cell Selection. Handling of emergency call request when camped on a 'GSM Circuit Service Not Available' cell. Support of a packet only network or a packet network combined with a Non-GSM circuit network.
04.11	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	SMG3 SMG4		AWS/Nortel Networks	
04.18	Mobile radio interface layer 3 specification	SMG2		Ericsson	30 HKz Broadcast. Cell Selection. Cell Reselection. Addition of neighbour list to support Compact neighbours on BCCH.
04.60	General Packet Radio Service; MS - BSS interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol	SMG2		PDFG-NS Ericsson	30-kHz CS related information on PBCCH. To allow non–GSM broadcast information to be transmitted on a PBCCH. New Suspend and Resume messages Neighbour list changes to support Compact neighbours on PBCCH; Neighbour list changes to support EDGE Compact neighbours in PSI3 and PSI3 bis. EDGE COMPACT Control Channels related changes - Compact Control Information for support of a packet only network or a packet network combined with a Non-GSM circuit network. Cell selection impact - to broadcast that emergency service is not supported.
04.64	Tunneling of non-GSM Messages	SMG3		Motorola	To provide a generic mechanism for the exchange of signalling between an MS and a non-GSM MSC/VLR, transparently through the SGSN. This CR requests the addition of the

Name	Title	Resp. STC	Target SMG	Resource Name	Changes
					Tunnelling of Messages (TOM) service to support the above function.
05.01	Physical layer on the radio path General description	SMG2WPB		Nortel Networks	Define EDGE Compact logical channels.
05.02	Multiplexing and multiple access on the radio path	SMG2		Nortel Networks/ Ericsson	New logical channel for Narrow Band BCCH. New description of control channels PSCH and PFCCH. New coding of PSCH. Update permitted channel combinations. Band independent except for identification of new frequency band. To allow non-GSM broadcast information to be transmitted on a BCCH. To support EDGE Compact which makes it possible to deploy a EDGE system in less than 1 MHz of spectrum. The changes are required to have predefined occurrences of constant downlink power to be used for neighbour measurements at reselection. Also a new system information 19 message is added.
05.03	Channel Coding	SMG2		Ericsson	Introduction of compact control channels.
05.05	Radio Transmission and Reception	SMG2		Nortel	850 MHz frequency band and channel arrangement need to be included in GSM 05.05 for E-GPRS COMPACT (EDGE Classic and EDGE Compact).
05.08	Radio subsystem link control	SMG2			New Frequency Band. New Control Channel. Synchronization requirements. Band independent except for identification of new frequency band.
05.10	Radio subsystem synchronisation	SMG2		Nortel Networks/ Ericsson	EDGE Compact synchronization.
05.50	Background for Radio Frequency (RF) requirements			Nortel	Band-specific performance specs may be required. The doc addresses 'pan-European' needs and may need to be updated.
09.18	Gs Interface Changes to Support Tunnelling of non-GSM Messages	SMG12		Motorola	To provide a generic mechanism for the exchange of signalling messages between an MS and a non-GSM MSC/VLR, transparently through the SGSN.
11.10	Mobile Station (MS) conformity specification	SMG7		Nokia	New control channel and 850 MHz band. Mobile Station Type Approval. Note: The series 11 docs have clauses that require band-specific information and also band-independent information. Part 1 of this spec is band-specific. Parts 2 and 3 are band-independent. Has dependency on other

Name	Title	Resp. STC	Target SMG	Resource Name	Changes
					CRs, including 05.05.
11.11	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	SMG9		Nortel Networks	Define new Dedicated File (DF) for TDMA Support introduction of initial PLMN and cell selection for EDGE Compact. Define two new EFs: EF_{CPBCCH} and EF_{VPLMN}.
11.14	Specification of the SIM Application Toolkit for the Subscriber Identity Module -Mobile Equipment (SIM-ME) Interface	SMG9		AWS/Nortel Networks	
11.21	GSM Radio Aspects Base Station System Equipment	SMG2		Nortel Networks	New control channel and 850 MHz band. Band-specific.
11.23	GSM Signalling Aspects -Base Station System (BSS) Equipment Specification	SMG2			
11.26	GSM Repeater Equipment Test Specification	SMG2			Repeaters
12.03	Security Management				Add 850 in foreword `or band independent text instead` (editorial)

8   Backwards compatibility

The phased completion of EDGE standards shall not cause compatibility problems between the two phases. Sufficient definition of phase 2 EDGE issues is required to ensure appropriate support is included in the phase 1 EDGE specification package.

Annex 1:
EDGE related documents

Filename	Title	Author	Prepared for
SMG2 13/97	The use of higher level modualtion for improved data rates in EDGE	Ericsson	SMG2 #21
SMG2 12/97	Proposal for a feasibility study skeleton	Ericsson, Nokia	SMG2 #21
SMG2 150/97	EDGE feasibility study v0.1	Ericsson, Nokia	SMG2 #22
SMG2 WPB 5/97	EDGE feasibility study v0.2	Ericsson, Nokia	SMG2 WPB#1
SMG2 282/97	EDGE feasibility study cover page	Ericsson, Nokia	SMG2 #23
SMG2 307/97	EDGE feasibility study cover page (revised)	SMG2	SMG2 #23
SMG2 WPB 95/97	EDGE feasibility study v0.3	Ericsson, Nokia	SMG2 WPB#2
SMG2 WPB 124/97	Questions and comments to the EDGE feasibility study	Nortel	SMG2 WPB#2
SMG2 WPB 131/97	Amendment to EDGE feasibility study	SMG2	SMG2 WPB#2
SMG2 331/97	EDGE feasibility study v1.0	SMG2 WPB	SMG2 #24
SMG2 332/97	Work item description for EDGE	Ericsson	SMG2 #24
SMG2 333/97	Time plan for EDGE standardisation	Nokia	SMG2 #24
SMG2 411/97	Time plan for EDGE standardisation (revised)	SMG2	SMG2 #24
SMG 1015/97	EDGE feasibility study v1.0	SMG2	SMG #24
SMG 1148/97	EDGE BSS work item description	SMG	SMG #24
SMG 1147/97	EDGE NSS work item description	SMG	SMG #24
SMG 1162/97	Preliminary announcement of the EDGE workshop	SMG	SMG #24
SMG2 WPB 52/98	Continuous phase modulation	Nokia, Ericsson	SMG2 WPB#3
SMG2 WPB 57/98	Comparison of modulation proposal	Ericsson, Nokia	SMG2 WPB#3
SMG2 WPB 62/98	Comparison of modulation proposal (revised)	SMG2 WPB	SMG2 WPB#3
EDGE 01/98	Workshop agenda		
EDGE 02/98	EDGE Feasibility Study, v.1.0	SMG2	
EDGE 03/98	EDGE BSS Work item - Comparison of modulation proposals	SMG2 WPB	
EDGE 04/98	Evaluation of Continuous Phase Modulation	Nokia, Ericsson	
EDGE 05/98	Cell reselection in EDGE	Nokia	
EDGE 06/98	Encryption of EDGE calls	Nokia	
EDGE 07/98	Evaluation of Binary and Quatenary Offset QAM	Ericsson, Nokia	
EDGE 08/98	Q-O-QAM Performance with Implementation Imperfections	Nokia	
EDGE 09/98	Workshop document list		
EDGE 10/98	EDGE Project scheduling and open issues for the EDGE work item	Rapporteurs	
EDGE 11/98	Link Adaptation Quality Measures for Enhanced GPRS	Ericsson	
EDGE 12/98	Items to discuss for EDGE	Ericsson	
EDGE 13/98	Link Adaptation Performance for Enhanced GPRS	Ericsson	
EDGE 14/98	An enhanced coding scheme for EDGE data transmission	Siemens	
EDGE 15/98	Work item description for EDGE-NSS	SMG#24	
EDGE 16/98	Work item description for EDGE-BSS	SMG#24	
EDGE 17/98	Air interface design principles for EDGE and relationship with service requirements	Nortel	
EDGE 18/98	Protocol aspects for E-GPRS	Nortel	
EDGE 19/98	LS to SMG10 on EDGE encryption	EDGE WS	
EDGE 20/98	Output from the radio requirement sub-group	EDGE WS	Drafting group
EDGE 21/98	Output from the service requirement sub-group	EDGE WS	Drafting group
EDGE 22/98	LS to SMG10 on EDGE encryption (rev.1)	EDGE WS	SMG 10 plenary
EDGE 23/98	Revised EDGE 21/98	EDGE WS	Drafting group
EDGE 24/98	EDGE service requirements	EDGE rapporteur	Drafting group
EDGE 25/98	EDGE radio requirements	EDGE rapporteur	Drafting group
EDGE 26/98	EDGE, Link and System Performance " A comparison between Linear and non-linear modulation Schemes"	Motorola	Drafting group
EDGE 27/98	EDGE Mobile Stations RF Impact Analysis, A comparison between Linear and Non-Linear Modulation Approaches	Motorola	Drafting group
EDGE 28/98	EDGE radio requirements	TIA TR45.3 International Coordination Ad Hoc	Drafting group
EDGE 29/98	Revised version of EDGE 24/98	Alcatel, Bell South, Cellnet, Ericsson, Motorola, Nokia,	SMG1

Filename	Title	Author	Prepared for
		Nortel and Siemens	
EDGE 30/98	Revised version of EDGE 25/98	Alcatel, Bell South, Cellnet, Ericsson, Motorola, Nokia, Nortel and Siemens	SMG2
SMG1 246/98	EDGE service requirements	Alcatel, Bell South, Cellnet, Ericsson, Motorola, Nokia, Nortel and Siemens	
SMG2 WPB 100/98	EDGE radio requirements	Alcatel, Bell South, Cellnet, Ericsson, Motorola, Nokia, Nortel and Siemens	
SMG2 WPB 101/98	EDGE service requirements	Alcatel, Bell South, Cellnet, Ericsson, Motorola, Nokia, Nortel and Siemens	
SMG2 WPB 106/98	EDGE, Link and System Performance " A comparison between Linear and non-linear modulation Schemes"	Motorola	SMG 2 WPB
SMG2 WPB 107/98	EDGE Mobile Stations RF Impact Analysis, A comparison between Linear and Non-Linear Modulation Approaches	Motorola	SMG 2 WPB
SMG2 WPB 108/98	EDGE – Evaluation of 8PSK	Ericsson	SMG 2 WPB
SMG2 WPB 109/98	Performance for continuous phase modulation	Nokia, Ericsson	SMG 2 WPB
SMG2 WPB 110/98	Comparison of proposed EDGE modulation schemes	Ericsson	SMG 2 WPB
SMG2 WPB 132/98	Comparison between CPM and OQAM modulation schemes for EDGE performance and impact analysis	Nortel	SMG 2 WPB
SMG2 WPB 133/98	Discussion of Radio Requirements for EDGE	Nortel	SMG 2 WPB
SMG2 WPB 144/98	Enhanced Data Rates for GSM Evolution (EDGE), Project scheduling and open issues for EDGE; (10.59, Version 0.0.2)	PT SMG	SMG 2 WPB
SMG2 WPB 145/98	EDGE Service and Radio Requirements	SMG1/T1P1.5	SMG 2 WPB
SMG2 WPB 149/98	A comparison of CPM and OQAM	TIA TR45.3 ad-hoc on international coordination	SMG 2 WPB
SMG2 WPB 161/98	Radio Requirements for EDGE	Drafting group	SMG 2 WPB
SMG2 WPB 164/98	Arguments for choosing a CPM modulation for EDGE services	Lucent Technologies	SMG 2 WPB
SMG2 WPB 165/98	Evaluation of continuous phase modulation with the symbol rate of 650 ksps	Nokia	SMG 2 WPB
SMG2 WPB 172/98	Input from other operators on EDGE	E-Plus, Sonofon, Bell South	SMG 2 WPB
SMG2 WPB 173/98	Additional comparisons of EDGE with CPM vs. 8-PSK/QAM	Bell South, Ericsson	SMG 2 WPB
SMG2 WPB 178/98	Radio Requirements for EDGE	SMG2 WPB	SMG2
SMG2 WPA ???/98	Discussion paper on EDGE	Ericsson	SMG2 WPA
SMG2 EDGE 31/98	Agenda	Chairman	
SMG2 EDGE 32/98	Questions concerning the proposed modulation schemes for EDGE	Siemens	
SMG2 EDGE 33/98	Proposal of a modulation	Ericsson	
SMG2 EDGE 34/98	MS design impact of different modulation schemes for EDGE	Ericsson	
SMG2 EDGE 35/98	BTS design impacts	Ericsson, Nokia	
SMG2 EDGE 36/98	EDGE downlink performance with different modulations: 8PSK, QAM and DBCPM	Ericsson, Nokia	
SMG2 EDGE 37/98	EDGE uplink performance with different modulations	Ericsson	
SMG2 EDGE 38/98	EDGE Link and System Performance: A comparison between the proposed modulation schemes	Motorola	
SMG2 EDGE 39/98	EDGE mobile station battery power impact analysis: A comparison between 8PSK, QOQAM (linar) and CPM (non-linear) modulation approaches	Motorola	
SMG2 EDGE 40/98	Protocol of the SMG2 EDGE working group meeting	Secretary	
SMG2 EDGE 41/98	MS implementation aspects	Nokia	
SMG2 EDGE 42/98	8PSK for EDGE	E-Plus, Bell South, diAx mobile, SBC Communications, SONOFON, AT&T Wireless Services	
SMG2 EDGE 43/98	A possible compromise for EDGE and study items	Nortel	

Filename	Title	Author	Prepared for
SMG2 EDGE 44/98	Outcome of the working session on EDGE modulation schemes	SMG2 EDGE Working session	
SMG2 EDGE 45/98	Arguments for choosing 8PSK in the up and link	Lucent	
SMG2 EDGE 46/98	Outcome of the working session on EDGE modulation schemes	SMG2 EDGE Working session	

* SMG2 #26, 22-26 June 1998, Sunne

Filename	Title	Author	Prepared for
s298_146	Outcome of the working session on EDGE modulation schemes	SMG2 EDGE working session	SMG2
s298_170	SMG2 EDGE working session on modulation – Meeting report	Sekretary	SMG2
s298_171	EDGE 10.59 Version 0.0.4	Rapporteur	SMG2
s298_179	Request for inclusion of 8PSK as the high speed uplink for EDGE	TIA TR45.3	SMG2
s298_207	EDGE: Modulation scheme for the uplink	Siemens	SMG2
s298_220	Arguments for selecting 8PSK in uplink for EDGE	Nokia	SMG2
s298_221	Implementation aspect of EDGE Mobile Stations	Nokia	SMG2
s298_230	Uplink modulation for EDGE	Ericsson, Motorola, Nokia, Nortel, Siemens	SMG2
s298_238	EDGE 10.59 V1.0.0	Work item rapporteurs	SMG #26
s298_244	Proposed liaison statement concerning EDGE	SMG2	SMG #26

* SMG #26, 22-26 June 1998, Helsinki

Filename	Title	Author	Prepared for
98-0384	EDGE 10.59 V1.0.0	Rapporteur	SMG #26
98-0452	Service requirements for EDGE	Lucent	SMG #26
98-0513	Liaison statement concerning EDGE	SMG2	SMG #26

* SMG4 EDGE Ad-hoc #1, 29-30 June 1998, Tampere

Filename	Title	Author	Prepared for
98e001	Draft agenda	Nokia	SMG4 EDGE Ad-hoc
98e002	EDGE overview	Nokia	SMG4 EDGE Ad-hoc
98e003	EDGE 10.59	Rapporteurs	SMG4 EDGE Ad-hoc
98e004	Evaluation of 8PSK	Ericsson	SMG4 EDGE Ad-hoc
98e005	Liaison - Circuit Switched EDGE services	SMG4 EDGE Ad-hoc	SMG1
98e006	Liaison - EDGE user rates for ECSD	SMG4 EDGE Ad-hoc	SMG2
98e007	Liaison – Proposed network architectures for EDGE	SMG4 EDGE Ad-hoc	SMG12
98e008	Meeting report	Nokia	SMG4

* SMG1 #61, 6-10 July 1998, Naantali

Filename	Title	Author	Prepared for
98-492	EDGE project plan 10.59 V1.1.0	Rapporteur	SMG1 plenary
98-445	Service requirements for EDGE	Lucent	SMG1 plenary
98-463	Stage 1 service description for 136 HS	TIA 45.3 Ad-Hoc	SMG1 plenary
98-477	LS-Circuit switched services	SMG4 EDGE Ad-Hoc	SMG1 plenary
98-526	EDGE impact on existing 02 series specification	Rapporteurs	SMG1 plenary
98-550	Answer to LS – Circuit switched services	SMG1	SMG4

* SMG2 EDGE WS #4, 12-13 August 1998, Weybridge

Filename	Title	Author	Prepared for
ws98e047	Agenda	Chairman	EDGE WS
ws98e048	Meeting report	Secretary	EDGE WS
ws98e049	EDGE: Link Performance Comparison of Link Adaptation and Hybrid II ARQ for Enhanced GPRS	Ericsson	EDGE WS
ws98e050	EDGE: Measurement, Memory and Protocol Requirements for Link Adaptation and Hybrid II ARQ for Enhanced GPRS	Ericsson	EDGE WS
ws98e051	EDGE project plan: 10.59, V1.2.0	Rapporteur	EDGE WS
ws98e052	Proposal for Link Protocol Evaluation for Enhanced GPRS	Ericsson	EDGE WS
ws98e053	Incremental redundancy for EDGE	AT&T Wireless Service	EDGE WS

ws98e054	Training sequences and interference rejection	AT&T Wireless Service	EDGE WS
ws98e055	A measurement-based link adaptation algorithm and its implementation requirements	AT&T Wireless Service	EDGE WS
ws98e056	Proposed liaison statement concerning EDGE user rates for ECSD	SMG4	EDGE WS
ws98e057	Serial concatenated codes for EDGE	Nokia	EDGE WS
ws98e058	Circuit switched channels for EDGE	Nokia	EDGE WS
ws98e059	Modifications to 05 series specifications	Nokia	EDGE WS
ws98e060	Blind detection of modulation reusing GSM training sequences for 8PSK	Ericsson	EDGE WS
ws98e061	EDGE status in different STCs	Rapporteur	EDGE WS
ws98e062	Coding of modulation type and uplink state flags in training sequences	Nokia	EDGE WS
ws98e063	Burst structure with EDGE to achieve high compability between GPRS and EDGE	Lucent Technologies	EDGE WS
ws98e064	Improved modulation schemes for EDGE	Nortel	EDGE WS
ws98e065	Channel coding strategies for EDGE	Nortel	EDGE WS
ws98e066	Arguments for retaining GSM training sequences with a GMSK like modulation	Lucent Technologies	EDGE WS
ws98e067	Approximation of true GMSK by linearised GMSK and modified 4PSK	Lucent Technologies	EDGE WS
ws98e068	Draft outcome of the working session on EDGE	SMG2 working session on EDGE	SMG2 WPB
ws98e069	EDGE: Draft proposal for Link Protocol Evaluation for Enhanced GPRS	-	SMG2 WPB
ws98e070	Outcome of the working session on EDGE	SMG2 working session on EDGE	SMG2 WPB

* SMG3 WPA Aug 98, 25th – 28th of August 1998, Sundsvall

Filename	Title	Author	Prepared for
98A246	10.59 Project plan, V1.2.0	Rapporteur	SMG3WPA
98A247	ECSD (Enhanced Circuit Switched Data) signalling	Nokia	SMG3WPA

* SMG2 WPA Sep 98, 7th-11th of September 1998, Sundsvall, Sweden

Filename	Title	Author	Prepared for
298a460	ECSD signalling	Nokia	SMG2WPA
298a461	Modifications to Stage 2 service description due to EDGE		SMG2WPA
298a462	CR0408A371 BCIE modifications due to EDGE	Nokia	SMG2WPA
298a463	CR0408A356 Classmark modification	Nokia	SMG2WPA
298a464	CR0808A113 Modifications to Channel Type and Chosen Channel IEs in 08.08	Nokia	SMG2WPA
298a465	CR0858A026 Modifications to channel mode information element	Nokia	SMG2WPA

* SMG2 WPB Sep 98, 31st August - 3rd September 1998, Hoye Taastrup

Filename	Title	Author	Prepared for
298b193	Combined incremental redundancy and link adaptation for EDGE	AT&T	SMG2 WPB
298b194	Memory requirements for incremental redundancy for EDGE	AT&T	SMG2 WPB
298b195	Radio specifications affected by proposed incremental redundancy for EDGE	AT&T	SMG2 WPB
298b207	10.59, V1.3.0, EDGE project plan	Rapporteur	SMG2 plenary
298b208	Outcome of the working session on EDGE	Working Session on EDGE	SMG2 WPB
298b209	Proposal for Link Protocol Evaluation for Enhanced GPRS	Working Session on EDGE	SMG2 WPB
298b210	Meeting report for working session on EDGE	Working Session on EDGE	SMG2 WPB
298b237	LS from SMG1 to SMG4 (cc SMG2) - Answer to the liaison statement from SMG4 EDGE Ad Hoc "Circuit switched EDGE services" TDOC 477	SMG1	SMG2 WPB
298b251	8 -PSK - effect of non-zero crossing	Motorola	SMG2 WPB
298b255	EDGE: Link Performance Comparison of Link Adaptation and Hybrid II ARQ for Enhanced GPRS	Ericsson	SMG2 WPB
298b256	EDGE: Refined Analysis of Measurements, Memory and Protocol Requirements for Link Adaptation and Hybrid II ARQ for Enhanced GPRS	Ericsson	SMG2 WPB
298b257	EDGE: Blind detection of modulation reusing GSM training sequences for 8-PSK	Ericsson	SMG2 WPB
298b258	EDGE: Multiplexing of GPRS and Enhanced GPRS Users	Ericsson	SMG2 WPB
298b260	Liaison statement to TIA TR45.3 concerning EDGE	SMG	SMG2 WPB
298b264	GPRS and EGPRS in the same timeslot (Dynamic Allocation Mode)	Lucent Technologies	SMG2 WPB
298b266	Liaison Statement concerning EDGE user rates for ECSD	SMG4 EDGE Ad-Hoc	SMG2 WPB
298b267	Liaison Statement on Circuit Switched EDGE services	SMG4 EDGE Ad-Hoc	SMG2 WPB
298b269	Circuit switched channels for EDGE	Nokia	SMG2 WPB
298b270	Changes to 05-series specifications	Nokia	SMG2 WPB
298b271	Serially concatenated codes for EDGE	Nokia	SMG2 WPB
298b273	Modified pulse shaping for the 8-psk and GMSK compatible modulation	Nortel	SMG2 WPB
298b278	Gaussian Pulse Evaluation	Ericsson	SMG2 WPB
298b294	Proposed document "Training sequence concepts for EDGE" for presentation in the plenary	SMG2 EDGE-subgroup	SMG2 plenary

* SMG2 #27, 21st-25th September 1998, Marseilles

Filename	Title	Author	Prepared for
s298_285	Training sequence concepts for EDGE	SMG2 WPB ad-hoc	SMG2
s298_361	Impact of the Incremental redundancy proposal for EGPRS on the GSM BSS architecture	Nortel	SMG2
s298_366	Serial Concatenated codes for EDGE Channel Coding	Nokia	SMG2
s298_373	EDGE 10.59 (V1.3.0)	Rapporteur	SMG2

* SMG4 plenary Oct 98, 28st-2nd October 1998, Sophia Antipolis

Filename	Title	Author	Prepared for
98p358	Discussion document: 'Circuit Switched EDGE overview'	Nokia	SMG4 plenary
98p359	EDGE CR to 04.21	Nokia	SMG4 plenary
98p360	EDGE CR to 08.20	Nokia	SMG4 plenary
98p425	LS from SMG12 Answer to LS on 'Proposed network architecture for EDGE'	SMG12	SMG4
98p441	CR to 07.01 EDGE	Nokia	SMG4
98p442	CR to 09.07 EDGE	Nokia	SMG4

* SMG2 EDGE WS #5, 12th-13th October 1998, Stockholm

Filename	Title	Author	Prepared for
ws98e071	Agenda	Chairman	EDGE WS98E
ws98e072	Meeting report	Secretary	EDGE WS
ws98e073	EDGE: Concept Proposal for Enhanced GPRS	Ericsson	EDGE WS
ws98e074	EDGE: Evaluation of Link Adaptation and Hybrid II ARQ for Enhanced GPRS	Ericsson	EDGE WS
ws98e075	EDGE: Blind Detection of Modulation	Ericsson	EDGE WS
ws98e076	10.59 EDGE project plan, V1.4.0	Rapporteurs	EDGE WS
ws98e077	ECSD - concept evaluation (draft)	Nokia	EDGE WS

ws98e078	Comparison table for LA/ARQ alternatives for EGPRS	Nokia	EDGE WS
ws98e079	Training sequence concepts for EDGE	SMG2	EDGE WS
ws98e080	EDGE: Comments on ECSD	Ericsson	EDGE WS
ws98e081	Compared impact of Incremental redundancy and link adaptation for EGPRS on the GSM BSS architecture and implementation aspects	Nortel	EDGE WS
ws98e082	Requirements for the development of a compromise solution for the RLC protocol for EDGE	Nortel	EDGE WS
ws98e083	Concatenated codes for EDGE CSD	Nortel	EDGE WS
ws98e084	Simulation evaluation results for EDGE Link Adatation and Incremental Redundancy	AT&T	EDGE WS
ws98e085	Suggested 'Further Improvements to EDGE Combined LA and incremental redundancy	AT&T	EDGE WS
ws98e086	Draft "Outcome of the working session on EDGE, regarding link control and concept aspects"	SMG2 Working session on EDGE	EDGE WS
ws98e087	Draft "Outcome of the EDGE working session regarding modulation refinement and burst structure	SMG2 modulation subgroup	EDGE WS
ws98e088	Revised "Outcome of the EDGE working session regarding modulation refinement and burst structure"	SMG2 Working session on EDGE	SMG2 WPB
ws98e089	Revised "Outcome of the working session on EDGE, regarding link control"	SMG2 Working session on EDGE	EDGE WS
ws98e090	Revised "Outcome of the working session on EDGE, regarding link control"	SMG2 Working session on EDGE	SMG2 WPB, SMG2 WPA

* SMG2 WPA Nov 98, 2-6 November 1998, Paris

TDOC	Title	Source	Prepared for
298a729	EDGE, concept proposal for EGPRS	Ericsson	SMG2WPA
298a730	10.59, EDGE project schedule, v1.5.0	Ericsson	SMG2WPA
298a750	CR A356r1 to 04.08: Classmark modification	Nokia	SMG2WPA
298a761	Link Quality Control Procedures for EGPRS	Ericsson	SMG2WPA
298a762	Concept Proposal for E GPRS (presentation)	Ericsson	SMG2WPA

* SMG2 WPB #6, 2-6 November 1998, Milan, Italy

Filename	Title	Source	Prepared for
s298b320	EGPRS concept	Ericsson	SMG2 WPB
s298b321	GSM 10.59, V1.5.0	Rapporteur	SMG2 WPB
s298b322	Meeting report from the EDGE WS in Stockholm, Sweden	Secretary	SMG2 WPB
s298b323	Outcome of the EDGE working session regarding modulation refinement and burst structure	EDGE ad-hoc	SMG2 WPB
s298b324	Outcome of the working session on EDGE, regarding link control	EDGE ad-hoc	SMG2 WPB
s298b325	CR 05.04-A001 Introduction of 8PSK	Ericsson	SMG2 WPB
s298b326	CR 05.02-A046 Burst format and TS for 8PSK	Ericsson	SMG2 WPB
s298b341	EDGE: Tail sequence and ramping	EDGE	SMG2 WPB
s298b364	ECSD (Enhanced Circuit Switched Data) - concept evaluation (version 2.0)	Nokia	SMG2 WPB
s298b365	Burst based link quality control proposal for EGPRS	Nokia	SMG2 WPB
s298b366	In-band signalling using new training sequences in GSM	Nokia	SMG2 WPB
s298b367	Proposed LS: Working assumptions for ECSD Withdrawn	Ericsson	SMG2 WPB
s298b368	Link quality control concept for EGPRS	Ericsson	SMG2 WPB
s298b369	Comments on ECSD II	Ericsson	SMG2 WPB
s298b379	Comments on SMG2 WPB Tdoc 368 "Link Quality Control Proposal for EGPRS", source Ericsson	Nortel	SMG2 WPB
s298b382	Link adaptation and incremental redundancy for EGPRS	Lucent Technologies	SMG2 WPB
s298b383	Answer to Liaison statement concerning EDGE user rates for ECSD	SMG2	SMG2 WPB
s298b385	CR 05.04-A001 rev 1 Introduction of 8PSK	Ericsson	SMG2
s298b386	CR 05.02-A046 rev 1 Burst format and TS for 8PSK	Ericsson	SMG2
s298b305	Liaison statement concerning EDGE user rates for ECSD (forwarded from SMG2 Plenary - Marseille)	ETSI SMG4 EDGE Ad-hoc	SMG2 WPB

* SMG1 #62, 2-6 November 1998, Rome, Italy

Filename	Title	Author	Prepared for
s198_697	CR for 02.60	Ericsson	SMG1
s198_698	Comments on CR 02.60	Ericsson	SMG1
s198_699	EDGE project schedule (V1.5.0)	Rapporteurs	SMG1
s198_722	CR on 02.34	Nokia	SMG1
s198_800	EDGE status in different STCs	Rapporteurs	SMG1
98_875ED	Answer to LS from SMG10 on Encryption of EDGE calls	SMG1	SMG10, SMG2

* SMG2 #28, 16-19 November 1998, Dresden, Germany

Filename	Title	Author	Prepared for
s298-450	CR 05.02	SMG2 WPB	SMG for information
s298-453	CR 05.04	SMG2 WPB	SMG for information

* SMG2 EDGE WS #6, 2-4th December, Paris, France

Filename	Title	Author	Prepared for
ws98e091	Meeting report	Secretary	EDGE WS
ws98e092	Meeting report from the Stockholm meeting	Secretary	EDGE WS
ws98e093	Changes in 05.05 due to introduction of EDGE	Ericsson	EDGE WS
ws98e094	EDGE: Concept Proposal for EGPRS	Ericsson	EDGE WS
ws98e095	Link Quality Control Proposal for EGPRS	Ericsson, AT&T	EDGE WS
ws98e096	EDGE: Comments on Link Quality Control Proposals	Ericsson	EDGE WS
ws98e097	EDGE Usage on the BCCH Carrier	Ericsson	EDGE WS
ws98e098	Link Adaptation and Incremental Redundancy for EGPRS – Revised	Lucent	EDGE WS
ws98e099	Comparison of LA/IR Proposals	Lucent	EDGE WS
ws98e100	Performance of Link Adaptation and Incremental Redundancy for EGPRS - Impact of RLC Block Size	Lucent	EDGE WS
ws98e101	ECSD – Concept evaluation, 2.0	Nokia	EDGE WS
ws98e102	EDGE on BCCH carrier – Impact on cell selection/reselection	Nokia	EDGE WS
ws98e103	Burst based link quality control proposal for EGPRS	Nokia	EDGE WS
ws98e104	Forseen impact on 03.64	Ericsson	EDGE WS
ws98e105	Comments on ECSD III	Ericsson	EDGE WS
ws98e106	CR A004r2 to 03.34 Modifications to Stage 2 service description due to EDGE	Nokia	EDGE WS
ws98e107	CR A356r2 to 04.08 Classmark and Channel Mode Modifications due to EDGE	Nokia	EDGE WS
ws98e108	CR A371 to 04.08 BCIE modifications due to EDGE	Nokia	EDGE WS
ws98e109	CR A026 to 08.08 Modifications to Channel mode information element	Nokia	EDGE WS
ws98e110	CR A113 to 08.58 Channel Type and Chosen Channel IEs in 08.08	Nokia	EDGE WS
ws98e111	10.59, Version 1.6	Rapporteur	EDGE WS
ws98e112	Comparison and comments on the link quality control	Motorola	EDGE WS
ws98e113	Review of 05-04/05 changes for EDGE	Motorola	EDGE WS
ws98e114	Performance Evaluation of Burst Based Link Quality Control Proposal for EGPRS	Nokia	EDGE WS
ws98e115	Header Protection for Incremental Redundancy in EGPRS	Lucent	EDGE WS
ws98e116	Table of Comments for EGPRS Link Quality Control	Nokia	EDGE WS
ws98e117	Comments on EGPRS Link Control Proposals	AT&T	EDGE WS
ws98e118	Presentation of Nokia's Burst Based Link Quality Control Proposal for EGPRS	Nokia	EDGE WS
ws98e119	Presentation of Ericsson's LQC proposal slides	Ericsson	EDGE WS
ws98e120	Presentation of status in different STCs	Rapporteur	EDGE WS
ws98e121	Comparison of LA/IR proposals	Drafting group	EDGE WS
ws98e122	Comments on Ericsson's 05.05 document	Nokia	EDGE WS
ws98e123	Comparison of LA/IR proposals (revised version)	Drafting group	EDGE WS
ws98e124	CR on 03.60		EDGE WS
ws98e125	Comparison of LA/IR proposals (revised version)	Drafting group	EDGE WS
ws98e126	Proposed way forward on link quality control aspects for EDGE	Alcatel, AT&T, Ericsson, Nortel	EDGE WS

* SMG4 plenary Dec 98, 7-11 December 1998, Salisbury

Filename	Title	Source	Prepared for
98p568	LS from SMG2 WPB on EDGE user rates for ECSD	SMG2 WPB	SMG4
98p592	CR to 04.21: EDGE	Nokia	SMG4
98p593	CR to 07.01: EDGE	Nokia	SMG4
98p594	CR to 08.20: EDGE	Nokia	SMG4
98p595	CR to 08.60: EDGE	Nokia	SMG4
98p596	CR to 09.07: EDGE	Nokia	SMG4
98p701	Discussion paper: RLP in EDGE	Ericsson	SMG4
98p702	Discussion paper: Alternative solution for TCH/E38.4	Ericsson	SMG4
98p703	CR 04.21 on EDGE	Nokia	SMG4
98p704	CR 08.20 on EDGE	Nokia	SMG4

* SMG7 Dec 98, 14-17 December 1998, Vienna

Filename	Title	Source	Prepared for
7-369-98	DRAFT EDGE impact analysis og GSM 11.10-1	Ericsson	SMG7
7-446-98	EDGE project schedule 10.59, V1.7.0	Ericsson	SMG7

* SMG2 WPA Jan 99, 11-15 January 1999, Nice

Filename	Title	Source	Prepared for
2a99-112	Efficient Transmission of ARQ Feedback	Lucent Technologies	SMG2 WPA
2a99-125	ECSD (Enhanced Circuit Switched Data) – concept evaluation, v. 3.0	Nokia	SMG2 WPB
2a99-126	EGPRS concept	Ericsson	SMG2 WPA
2a99-127	Two Burst Based Link Quality Control Proposal for EGPRS	AT&T, Ericsson,Lucent, Nokia, Nortel	SMG2 WPA
2a99-127	EDGE: Two Burst Based LQC performance	Ericsson	SMG2 WPA
2a99-129	CR 03.64-A054 Introduction of Enhanced GPRS (EGPRS)	Nokia	SMG2 WPA
2a99-131	Comments on ECSD concept	Ericsson	SMG2 WPA
2a99-133	10.59, Version 1.8.0	Rapporteur	SMG2 WPA
2a99-134	Meeting report from EDGE WS#6	EDGE Secretary	SMG2 WPA
2a99-293	Outcome of the EDGE workshop comparison of LA/R proposals	SMG2- Edge Workshop	SMG2 WPA

* SMG2 WPB #7, Nice, France, 11-15 January 1999

Filename	Title	Source	Prepared for
2b99-002	EGPRS concept	Ericsson	SMG2 WPB
2b99-003	Two Burst Based Link Quality Control Proposal for EGPRS	AT&T, Ericsson,Lucent, Nokia, Nortel	SMG2 WPB
2b99-004	EDGE: Two Burst Based LQC performance	Ericsson	SMG2 WPB
2b99-005	CR 03.64-A054 Introduction of Enhanced GPRS (EGPRS)	Nokia	SMG2 WPB
2b99-006	Cell selection and Reselection for Enhanced GPRS	Ericsson	SMG2 WPB
2b99-007	Comments on ECSD concept	Ericsson	SMG2 WPB
2b99-008	First input on 05.05	Ericsson	SMG2 WPB
2b99-009	10.59, Version 1.8.0	Rapporteur	SMG2 WPB
2b99-030	EDGE Blocking Specification	TIA TR45.3 ad-hoc on international coordination	SMG2 WPB
2b99-046	EDGE on the BCCH Carrier - Summary of system effects	Nokia, Ericsson	SMG2 WPB
2b99-047	CR 05.08-A085 EDGE on the BCCH carrier	Nokia	SMG2 WPB
2b99-068	Meeting report from EDGE WS#6	EDGE Secretary	SMG2 WPB
2b99-075	Serially Concatenated Codes for EDGE Channel Coding	Nokia	SMG2 WPB
2b99-076	Fast Associated Control Channel (FACCH) for ECSD	Nokia	SMG2 WPB
2b99-077	ECSD (Enhanced Circuit Switched Data) – concept evaluation, v. 3.0	Nokia	SMG2 WPB
2b99-095	Fast inband signalling proposal for ECSD	Nokia	SMG2 WPB
2b99-111	Review of changes due to EDGE introduction	Motorola	SMG2 WPB
2b99-112	Efficient Transmission of ARQ Feedback	Lucent Technologies	SMG2 WPB
2b99-129	Outcome of the EDGE workshop comparison of LA/R proposals	SMG2- Edge Workshop	SMG2 WPB
2b99-134	Harmonisation of BTS blocking requirements for EDGE	Nokia	6.9
2b99-144	Proposed Liaison statement on BTS blocking requirements for EDGE	SMG2-WPB	TIA TR45.3

* SMG12 Jan 99, 18-22 January 1999, San Francisco

Filename	Title	Source	Prepared for
c-99-157	CR03.60 – A103	Ericsson	SMG12

* SMG2 #29, 25-29 January 1999, Nice

Filename	Title	Source	Prepared for
2p99-099	10.59, V1.9.0	Rapporteur	SMG2
2p99-100	CR03.64	Nokia	SMG2
2p99-118	EDGE status	Rapporteur	SMG2

* SMG3 WPA Jan 99, 25-26 January 1999, Sofia Antipolis

Filename	Title	Source	Prepared for
3a99-077	CR 03.34 A004r3 Modifications to Stage 2 service description	Nokia	SMG3 WPA
3a99-141	CR 03.34 A004r4 Modifications to Stage 2 service description due to EDGE	SMG3WPA	SMG3

* SMG3 plenary Jan 99, 27-29 January 1999, Sofia Antipolis

Filename	Title	Source	Prepared for
3p99-094	CR 03.34 A004r4 Modifications to Stage 2 service description due to EDGE	SMG3WPA	SMG3

* SMG #28, 8-12 February 1999, Milano

Filename	Title	Source	Prepared for
P-99-032	3 Non-Strategic Change Requests affecting GPRS Stage 1 Specification GSM 02.60	SMG1	SMG
P-99-034	Agreed Change Request introducing EDGE to GSM 02.34	SMG1	SMG
P-99-173	CRs on EDGE (for information)	SMG2	SMG
P-99-205	EDGE Status	Rapporteur	SMG

* SMG4 EDGE Ad-hoc #2, 17-18 February 1999, Oslo

Filename	Title	Source	Prepared for
4e99-001	CR to 04.21 on circuit switched EDGE (with TCH/F38.4)	Nokia	SMG4 WS
4e99-002	CR to 08.20 on circuit switched EDGE (with TCH/F38.4)	Nokia	SMG4 WS
4e99-003	CR to 07.01 on circuit switched EDGE	Nokia	SMG4 WS
4e99-004	CR to 09.07 on circuit switched EDGE	Nokia	SMG4 WS
4e99-005	CR to 08.60 on circuit switched EDGE	Nokia	SMG4 WS
4e99-006	Proposal for TCH/F43.2 in ECSD NT	Ericsson	SMG4 WS
4e99-007	Alternative solution with no split/combine function for TCH/F43.2 and TCH/F28.8 channel coding	Ericsson	SMG4 WS
4e99-008	CR to 04.21 on circuit switched EDGE (with TCH/F43.2)	Nokia	SMG4 WS
4e99-009	CR to 08.20 on circuit switched EDGE (with TCH/F43.2)	Nokia	SMG4 WS
4e99-010	Minutes of meeting	Chairman	SMG4 WS
4e99-011	CR to 04.21 on circuit switched EDGE (revision of Tdoc 001)	Nokia	SMG4 WS
4e99-012	CR to 04.21 on circuit switched EDGE (revision of Tdoc 008)	Nokia	SMG4 WS
4e99-013	CR to 08.20 on circuit switched EDGE (revision of Tdoc 002)	Nokia	SMG4 WS
4e99-014	CR to 08.20 on circuit switched EDGE (revision of Tdoc 009)	Nokia	SMG4 WS
4e99-015	Output Document of SMG4 ad hoc Meeting on EDGE	Ericsson, Nokia, Motorola, Siemens	SMG2
4e99-016	CR to 07.01 on circuit switched EDGE (revision of Tdoc 003)	Nokia	SMG4 WS
4e99-017	CR to 04.21 on circuit switched EDGE (revision of Tdoc 011)	Nokia	SMG4 WS
4e99-018	CR to 08.20 on circuit switched EDGE (revision of Tdoc 013)	Nokia	SMG4 WS
4E99-019	CR to 09.07 on circuit switched EDGE (revision of Tdoc 004)	Nokia	SMG4 WS

* SMG7 EDGE Ad-Hoc #1, 25-26 February 1999, Bonn

Filename	Title	Source	Prepared for
7e99-001	Agenda	Convenor	SMG7 EDGE
7e99-002	Scope of SMG7 ad-hoc meeting	Ericsson	SMG7 EDGE
7e99-003	Draft EDGE impact analysis of GSM 11.10-1	Ericsson	SMG7 EDGE
7e99-004	EDGE status (including 10.59 v1.10.0)	EDGE rapporteur	SMG7 EDGE
7e99-005	ECSD (Enhanced Circuit Switched Data) - concept evaluation (v.3.0)	Nokia	SMG7 EDGE
7e99-006	EGPRS: Concept Proposal for Enhanced GPRS (Rev 1.4)	Ericsson	SMG7 EDGE
7e99-007	EDGE: Link Quality Control Aspects for Mobile Testing	Ericsson	SMG7 EDGE
7e99-008	EGPRS IR performance with various receiver memory sizes.	Nokia	SMG7 EDGE
7e99-009	Report: SMG7 EDGE ad-hoc meeting in Bonn; 25-26 February 1999	Convenor	SMG7 EDGE
7e99-010	Impact of EDGE on non EDGE MS	T-Mobil	SMG7 EDGE
7e99-011	Review of 05-05 changes for EDGE	Motorola	SMG7 EDGE
7e99-012	First input on 05.05 due to introduction of EDGE	Ericsson	SMG7 EDGE
7e99-013	List of RF-tests	Ericsson	SMG7 EDGE

* SMG4 Mar 99, 15-18 March 1999, London

Filename	Title	Source	Prepared for
t2-99112	Meeting report of EDGE WS in Oslo	Secretary	SMG4
t2-99173	CR 07.02 on EDGE	Ericsson	SMG4
99174-part1	CR 03.10 on EDGE	Nokia	SMG4
99174-part2	CR 03.10 on EDGE	Nokia	SMG4
99174-part3	CR 03.10 on EDGE	Nokia	SMG4
t2-99175	CR 04.21 on EDGE	Nokia	SMG4
t2-99176	CR 08.20 on EDGE	Nokia	SMG4
t2-99177	CR 07.01 on EDGE	Nokia	SMG4

| t2-99178 | CR 09.07 on EDGE | Nokia | SMG4 |
| t2-99179 | CR 04.22 on EDGE | Ericsson | SMG4 |

* SMG2 EDGE WS #7, 2-4 March 1999, Toulouse

Filename	Title	Source	Prepared for
2e99-001	Meeting report	Secretary	2
2e99-002	Meeting report from the WS#6	Secretary	3
2e99-003	10.59 V1.11.0	Rapporteur	2
2e99-004	Evaluation of EGPRS Channel Coding	Ericsson	5.2.3
2e99-005	ACK/NACK Bitmap Transmission for EGPRS (cancelled)	Ericsson	5.2.2
2e99-006	EGPRS concept	Ericsson	5.2.1
2e99-007	Signalling for EGPRS	Ericsson	5.4
2e99-008	Radio interface performance of ECSD 43.2 kbps service	Nokia	5.3.3
2e99-009	Refined proposal for EDGE on BCCH carrier	Nokia	5.5
2e99-010	Fast measurement reporting and power control for ECSD	Nokia	5.3.2
2e99-011	EDGE time plan towards SMG #29, #30 & #31	Rapporteur	6.3
2e99-012	Mobile station types	Ericsson	5.5
2e99-013	Proposal for TCH/F43.2 in ECSD NT	SMG4 EDGE adhoc	4
2e99-014	Acknowledgement for EGPRS	Nokia	5.2.2
2e99-015	EGPRS RLC Performance With Efficient Transmission of ARQ Feedback	Lucent Technologies	5.2.2
2e99-016	Wireless Packet Data for TDMA	UWCC	5.5
2e99-017	Reference Models for Nonlinear Amplifiers and Phase Noise for Evaluation of EDGE Radio Performance	Nokia	5.1
2e99-018	Performance of 8PSK in Severe Multipath Environments	Nokia	5.1
2e99-019	Analysis of Spectrum Mask changes in EDGE	Ericsson	5.1
2e99-020	EDGE Sensitivity to phase noise	Ericsson	5.1
2e99-021	Noise Model of Tansmitter – Receiver Chain for EDGE		5.1
2e99-022	CR 05.05: Propagation conditions for EDGE	Ericsson/Nokia	5.1
2e99-023	CR 05.05: Transmitter/receiver performance requirements for EDGE	Ericsson/Nokia	5.1
2e99-024	CR 05.05: Output RF spectrum for EDGE	Ericsson/Nokia	5.1
2e99-025	CR 05.05: Power Classes for EDGE	Ericsson/Nokia	5.1
2e99-026	CR 05.05: Output level dynamic operation for EDGE	Ericsson	5.1
2e99-027	CR 05.05: Modulation accuracy for EDGE	Ericsson/Nokia	5.1
2e99-028	8 PSK Bearer Rates	AT&T	5.1
2e99-029	EDGE: Coding for T-ECSD	Ericsson	5.3.3
2e99-030	EDGE: Connection Management for ECSD	Ericsson	5.4
2e99-031	Selection of tail bits for EDGE bursts	Nokia	5.1
2e99-032	Specification and measurements of dynamic level for EDGE	Nokia	5.1
2e99-033	ECSD concept, v.4	Nokia	5.3.1
2e99-034	CR to 04.08 BCIE modifications due to EDGE	Nokia	5.4
2e99-035	CR to 04.08 Classmark modification	Nokia	5.4
2e99-036	CR to 08.08 Channel Type and Chosen Channel IEs in 08.08	Nokia	5.4
2e99-037	CR to 08.58 Modifications to Channel mode information element	Nokia	5.4
2e99-038	Link quality control aspects for mobile testing	Ericsson	5.2.2
2e99-039	Evaluation of ECSD channel coding	Nokia	5.3.3
2e99-040	Comparison of puncturing schemes for EGPRS	Motorola	5.2.3
2e99-041	Review of EDGE modulation accuracy and related radio papameters	Motorola	5.1
2e99-042	Impact of mask relaxation of EDGE	Motorola	5.1
2e99-043	Fast Associated Control Channel (FACCH) for ECSD	Nokia	5.3.3
2e99-044	Liaison Statement to SMG2 WPA regarding …	TIA TR45.3	4
2e99-045	EGPRS performance with various receiver memory sizes	Nokia	5.2.2
2e99-046	Not used	-	-
2e99-047	Encryption of EDGE calls	SMG10	5.3.3
2e99-048	Answer to LS from SMG10 on Encryption of EDGE calls	SMG1	5.3.3
2e99-049	ACK/NACK bitmap transmission for EGPRS	Ericsson	5.2.2
2e99-050	CR for 04.60 (Introduction of EDGE in RLC/MAC protocol)	Nortel	5.2.4
2e99-051	EDGE radio requirements	SMG2 Ad Hoc	6.1
2e99-052	Not used	-	-
2e99-053	EDGE time plan towards SMG #29, #30 & #31 (updated from 2e99-11)	Rapporteur	6.3
2e99-054	Working assumption for ECSD channel coding, output document	SMG2 Ad Hoc	6.1
2e99-055	Answer to LS on encryption of EDGE calls, output document	SMG2 Ad Hoc	6.2

2e99-056	Proposal for TCH/F43.2 in ECSD NT, output document	SMG2 Ad Hoc	6.2
2e99-057	Not used	Motorola	-
2e99-058	EDGE radio requirements (updated from 2e99-51)	SMG2 Ad Hoc	6.1
2e99-059	Proposal for TCH/F43.2 in ECSD NT, output document (updated from 2e99-56)	SMG2 Ad Hoc	6.2
2e99-060	Outcome of EGPRS working session	SMG2 Ad Hoc	6.1
2e99-061	Answer to LS on encryption of EDGE calls, output document (updated from 2e99-055)	SMG2 Ad Hoc	6.2
2e99-062	Proposed blocking specifications for North American 850 and 1900 MHz bands for UWC136	Nortel networks	6.1
2e99-063	Outcome of EGPRS working session (updated from 2e99-60)	SMG2 Ad Hoc	6.1
2e99-064	Outcome of EGPRS working session (updated from 2e99-63)	SMG2 Ad Hoc	6.1

* SMG1 #63, 8-9 March 1999, Edinburgh

Filename	Title	Source	Prepared for
99-113	CR 02.07: Introduction of EGPRS and ECSD	Ericsson	
99-122	EDGE on Supported Rates	Nokia	

* SMG2 WPA Mar 99, 15-19 March 1999, Chicago

Filename	Title	Source	Prepared for
2a99-283	EDGE: Signalling for GPRS	Ericsson	
2a99-293	EDGE - ECSD connection management concept	Ericsson	
2a99-314	Transmission window for EGPRS	Nokia	

* SMG3 WPA Mar 99, 22-25 March 1999, Sophia Antipolis

Filename	Title	Source	Prepared for
N1-99043	CR BCIE modifications due to EDGE	Nokia	SMG3 WPA
N1-99123	EDGE: Signalling for EGPRS	Ericsson	SMG3 WPA
N1-99177	EDGE: ECSD connection management	Ericsson	SMG3 WPA
N1-99178	CR BCIE modifications due to EDGE rev 2	Nokia	SMG3 WPA

* SMG2 EDGE drafting on 04.60 Mar 99, 30-31 March 1999, Paris

Filename	Title	Source	Prepared for
2e99-065	Meeting notes	Chairman	
2e99-066	Acknowledgement for EGPRS	Nokia	
2e99-067	Change request draft on 04.60	Nortel	
2e99-068	Signalling for EGPRS	Ericsson	
2e99-069	ACK/NACK bitmap transmission for EGPRS	Ericsson	
2e99-070	LQC Measurements	Ericsson	
2e99-071	Power Control Parameters for EGPRS	Ericsson	
2e99-072	RLC Window Size Requirements for EGPRS	Lucent	
2e99-073	Signalling messages to support acknowledgements in EGPRS	Nokia	
2e99-074	Evaluation of short implicit acknowledgements	Nokia	
2e99-075	Agenda and notes from the 04.60 telephone conference	Chairman	
2e99-076	Draft proposal for clause 10 of 04.60	Drafting sub group	
2e99-077	Draft proposal for clause 9 of 04.60	Drafting sub group	

* SMG2 EDGE drafting on 05.05 Apr 99, 7-8 April 1999, Helsinki

Filename	Title	Source	Prepared for
2e99-079	Executive meeting notes	Chairman	
2e99-080	Performance for EVM scenarios in EDGE	Ericsson	
2e99-081	Modulation accuracy for EDGE	Ericsson	
2e99-082	Power classes for EDGE	Ericsson	
2e99-083	Analysis of Spectrum Mask changes in EDGE	Ericsson	
2e99-084	Output RF spectrum for EDGE	Ericsson/Nokia	
2e99-085	Scenario calculations for large signal performance of receivers in EDGE	Ericsson	
2e99-086	Performance at high input level for EDGE	Ericsson	
2e99-087	Transmitter IM for EDGE	Ericsson	
2e99-088	Output level dynamic operation for EDGE	Ericsson	
2e99-089	Transmitter/receiver performance requirements for EDGE	Ericsson	
2e99-090	EDGE receiver performance for different propagation conditions	Ericsson	
2e99-091	Reference Performance Results for EDGE EGPRS 8PSK Transmission Schemes	Nokia	
2e99-092	Performance Requirements for EDGE 8PSK	Nokia	

2e99-093	Comparison of Filters for EDGE 8PSK EVM Measurement	Nokia	
2e99-094	Principles of Specification of Error Vector Magnitude	Nokia	
2e99-095	EDGE: Amplitude Statistics of 3pi/8-8PSK Signals	Nokia	
2e99-096	Output document from radio subgroup	Nokia	
2e99-097	EDGE 8PSK Receiver Performance for HT100, RA250, and EQ50 profiles	Lucent	
2e99-098	EVM measurement filter	Hewlett Packard	
2e99-099	Withdrawn		
2e99-100	Slot mapping and interleaving for EGPRS	Motorola	
2e99-101	EGPRS simulation results	Motorola	
2e99-102	Puncturing schemes for EDGE	Motorola	
2e99-103	Suitable dispersion profiles for 8PSK modes for EGPRS	AT&T	
2e99-104	EGPRS performance in hostile environment	Nortel	
2e99-105	Spectrum relaxation for high power PA	Nortel	
2e99-106	EDGE Radio Requirements	EDGE workshop	
2e99-107	Mobile station output power for EDGE	Ericsson	
2e99-108	Summary of implementation imperfection studies related to power class, modulation spectrum and EVM requirements for GSM 05.05	Nokia	
2e99-109	Reference level for Power versus time	HP	
2e99-110	Reference performance results for ECSD 8PSK transmission schemes	Nokia	
2e99-111	Revised version of TDOC 088/99	05.05 sub group	
2e99-112	Simulation assumption for the 05.05 receiver performance tests	05.05 sub group	
2e99-113	Revised version of 081/99	05.05 sub group	
2e99-114	Withdrawn	-	
2e99-115	Revised version of 082/99	05.05 sub group	
2e99-116	Revised version of 086/99	05.05 sub group	
2e99-117	Revised version of TDOC 115/99	05.05 sub group	
2e99-118	Revised version of TDOC 113/99	05.05 sub group	
2e99-119	Revised version of TDOC 112/99	05.05 sub group	

* SMG2 #30, 12-16th April 1999, Dublin

Filename	Title	Source	Prepared for
2-99-183	Woven Convolutional Codes for EDGE/ECSD Channel Coding	Siemens	
2-99-213	LS to ETSI SMG2 WPB Regarding ETSI SMG2 WPB's Response to TIA TR45.3 AHIC's Tdoc SMG2 WPB 30/99 "EDGE Blocking Specifications"	TIA TR45.3 Ad-Hoc on International Coordination (AHIC)	
2-99-217	TCH/F43.2 for ECSD NT; CR to GSM 02.34 to be validated by SMG2 before presenting it to SMG#29	SMG1	
2-99-281	EDGE: 'Concept Proposal for Enhanced GPRS'	Ericsson	
2-99-282	ACK/NACK Bitmap Transmission for EGPRS	Ericsson	
2-99-283	Signalling for EGPRS	Ericsson	
2-99-299	EDGE on the BCCH Carrier - Summary of system effects	Nokia, Ericsson	
2-99-300	CR 05.08-A085 rev 2 EDGE on the BCCH carrier	Nokia	
2-99-335	Meeting report from EDGE Toulouse workshop	EDGE Secretary	
2-99-336	EDGE radio requirements	SMG2 EDGE WS Toulouse	
2-99-337	Outcome of EGPRS working session	SMG2 EDGE WS Toulouse	
2-99-338	Working assumption for ECSD channel coding	SMG2 EDGE WS Toulouse	
2-99-339	Proposal for TCH/F 43.2 in ECSD NT	SMG2 EDGE WS Toulouse	
2-99-340	Output on Encryption of EDGE calls	SMG2 EDGE WS Toulouse	
2-99-341	Meeting report from EDGE 04.60 drafting group	Drafting session Chairman	
2-99-342	Meeting report from EDGE 05.05 drafting group	Drafting session chairman	
2-99-343	GSM 10.59 V1.12.0	Rapporteur	
2-99-344	Output level dynamic operation for EDGE	EDGE SMG2 05.05 drafting group	
2-99-345	Modulation accuracy for EDGE	EDGE SMG2 05.05 drafting group	
2-99-346	Performance at high input level	EDGE SMG2 05.05 drafting group	
2-99-347	Transmitter/Receiver performance for EDGE	EDGE SMG2 05.05 drafting group	

2-99-348	Power classes for EDGE	EDGE SMG2 05.05 drafting group	
2-99-349	Output RF spectrum for EDGE	EDGE SMG2 05.05 drafting group	
2-99-350	Simulation assumptions for the 05.05 receiver performance tests for EDGE	EDGE SMG2 05.05 drafting group	
2-99-351	Analysis of spectrum mask changes for EDGE	Ericsson	
2-99-352	Scenario calculations for large signal performance of receivers in EDGE	Ericsson	
2-99-353	EDGE: Coding for ECSD	Ericsson	
2-99-363	Summary of modifications proposed in 04.60 for EGPRS support	EGPRS drafting session	
2-99-364	Draft CR for EGPRS support on 04.60, clauses 1-10	EGPRS drafting session	
2-99-365	EGPRS drafting session - Draft CR for EGPRS support in 04.60 , clauses 11-12	EGPRS drafting session	
2-99-376	Fast Associated channel for ECSD	Nokia	
2-99-377	Radio interface performance of ECSD 43.2 kbps service	Nokia	
2-99-378	ECSD concept evaluation, v5.0	Nokia	
2-99-379	Fast measurement reporting and power control for ECSD	Nokia	
2-99-380	CR 04.08-A356 rev 3 Classmark modification	Nokia	
2-99-402	PLC Window size requirements for EGPRS	Lucent Technologies	
2-99-403	EGPRS RLC Performance with Efficient Transmission of ARQ Feedback through Segmented Bitmaps	Lucent Technologies	
2-99-404	CR 05.02-046 rev 3 Introduction of 8-PSK burst format	Nokia	
2-99-408	Assymmetric service for ECSD	Nokia	
2-99-414	EGPRS and ECSD power and multislot configuration	Ericsson	
2-99-464	Link Quality Control Measurements for EGPRS	Ericsson	
2-99-465	Proposed liaison statementto TIA TR 45.3 AHIC concerning "Harmonisation of the EDGE radio specifications between ETSI and TIA"	Alcatel, AT&T, Ericsson, Hewlett Packard, Lucent, Motorola, Nokia, Nortel Networks, Philips, Siemens	
2-99-500	EGPRS puncturing schemes	Ericsson, Motorola	
2-99-502	CR 05.08-A085 rev 3 EDGE on the BCCH carrier	Nokia	
2-99-506	Proposed answer to the liaison statement from SMG1 "TCH/F43.2 for ECSD NT CR to GSM 02.34 to be validated by SMG2 before submission to SMG#29"	SMG2 WPB	

 * SMG7 EDGE WS#2, 17-19 May 1999, Paris

Filename	Title	Source	Proposed for
7e99-015	EDGE Receiver Tests: Technical issues for discussion	Ericsson	
7e99-016	Meeting report from EDGE SMG7 WS #2	Secretary	

 * SMG2 EDGE WS#8, 17-19 May 1999, Paris

Filename	Title	Source	Proposed for
2e99-120	Minutes of meeting from the EDGE workshop in Paris, France	Secretary	
2e99-121	GPRS-136HS EDGE - Motivation Presentation	UWCC	
2e99-122	GPRS-136HS EDGE - Technical Presentation	UWCC	
2e99-123	10.59 EDGE project schedule	Rapporteur	
2e99-124	05.08 CR (A085 r4) on EDGE on the BCCH Carrier	Nokia	
2e99-125	Minutes of meeting from the EDGE workshop in Toulouse, France	Secretary	
2e99-126	Efficient Transmission of ARQ Feedback in EGPRS Through Segmented Bitmaps	Lucent	
2e99-127	EDGE 8PSK Receiver Performance for Different Propagation Conditions (Rev.2)	Lucent	
2e99-128	Proposed draft CR for EGPRS introduction in 04.60; Clause 11-12	Nortel	
2e99-129	EDGE: Coding / modulation asymmetry for ECSD	Ericsson	
2e99-130	Concept proposal for EGPRS	Ericsson	
2e99-131	04.60 CR, Clause 1-8	Ericsson	
2e99-132	Future proofing for EGPRS	Ericsson	
2e99-133	RLC ACK/NACK transmission for EGPRS	Ericsson	
2e99-134	Uplink TBF establishment for EGPRS	Ericsson	
2e99-135	MCS-8 Coding	Ericsson	
2e99-136	CR Power Class for EDGE	Ericsson	
2e99-137	Implementation Issues on Mobile Station Output Power for EDGE	Ericsson	

2e99-138	CR Output RF Spectrum for EDGE	Ericsson	
2e99-139	Analysis of Spectrum Mask Changes in EDGE	Ericsson	
2e99-140	The Influence of a Spectrum Mask Relaxation in EDGE on Talk Time and Heating of a Mobile Station	Ericsson	
2e99-141	CR Performance at High Input Level for EDGE	Ericsson	
2e99-142	Scenario Calculation for High Input Levels in EDGE	Ericsson	
2e99-143	EVM performance with frequency offset and carrier leakage	Ericsson	
2e99-144	EGPRS 8PSK receiver performance	Ericsson	
2e99-145	CR Modulation accuracy for EDGE	Ericsson	
2e99-146	CR Output level dynamic operation for EDGE	Ericsson	
2e99-147	Scenario calculations for blocking signal performance of receivers in EDGE	Ericsson	
2e99-148	CR Blocking performance for EDGE receivers	Ericsson	
2e99-149	CR Transmitter/receiver performance requirements for EDGE	Ericsson	
2e99-150	The effect of ACP variation on EDGE performance in a 4x3 re-use pattern	Motorola	
2e99-151	EDGE: Interleaving and Burst Mapping for EGPRS	Ericsson	
2e99-152	3-Carrier Compact Proposal	UWCC	
2e99-153	Measurement Capabilities in 3-carrier Compact	UWCC	
2e99-154	Performance Results for EDGE EGPRS 8PSK Transmission Schemes	Nokia	
2e99-155	EVM Sensitivity of EGPRS Throughput	Nokia	
2e99-156	CRC Polynomials for EGPRS	Nokia	
2e99-157	Header Code Puncturing for EGPRS	Nokia	
2e99-158	EDGE one phase access, two phase access and UL modulation capability	Nokia	
2e99-159	RLC window size negotiation and minimum window sizes	Nokia	
2e99-160	TLLI for EGPRS	Nokia	
2e99-161	EGPRS Length Indicator	Nokia	
2e99-162	MS Radio Access Capability modification due to EDGE	Nokia	
2e99-163	CR 04.60. clause 9	Ericsson	
2e99-164	CR 04.60, clause 10	Ericsson	
2e99-165	Evaluation of EGPRS ARQ throughput efficiency	Alcatel	
2e99-166	Liaison Statement on the applicability of Receiver tests on non-EDGE MS in the presence of EDGE MS	SMG7	
2e99-167	Fast Measurement Reporting and Power Control for ECSD	Nokia	
2e99-168	ECSD concept v6.0	Nokia	
2e99-169	CR to 04.08 due to EDGE "Classmark and Channel Mode modification	Nokia	
2e99-170	CR to 08.08 due to EDGE "Channel Type and CHosen Channel IEs in 08.08	Nokia	
2e99-171	CR to 08.58 due to EDGE "Modifications to CHannel mode information element	Nokia	
2e99-172	On Asymmetry for ECSD	Nokia	
2e99-173	MS radio access capability for EGPRS	Ericsson	
2e99-174	EDGE phase II	Ericsson, Nokia	
2e99-175	Reference performance results for EDGE ECSD 8-PSK transmission	Nokia	
2e99-176	FACCH proposal for ECSD	Nokia	
2e99-177	O5-series changes for ECSD studies	Nokia	
2e99-178	Copy from SMG11 document: Narrowband and wideband speech in EDGE 8-PSK channels	Nokia	
2e99-179	05.03 changes for ECSD channel coding	Nokia	
2e99-180	Coding for EGPRS MCS-8	Nokia	
2e99-181	EGPRS receiver performance simulation results	Motorola	
2e99-182	EGPRS slotmapping and interleaving	Motorola	
2e99-183	Error Detection for EGPRS header and data block	Motorola	
2e99-184	For discussion: Edge phase 2	Nokia	
2e99-185	ECSD ciphering proposal	Nortel	
2e99-186	Proposed new BTS clause for GSM 05.05	Bellsouth -AT&T - Nortel	
2e99-187	Agreed changes regarding EVM, output power and spectrum mask	Work group	
2e99-188	CR: Blocking performance for EDGE receivers	Work group	
2e99-189	CR: Blocking performance for EDGE receivers	Work group	
2e99-190	Proposed CR for 05.05	Bellsouth -AT&T - Nortel	
2e99-191	Simulation assumptions for EDGE receiver performance analysis	Work group	

2e99-192	Proposed new BTS clause for GSM 05.05	Bellsouth -AT&T - Nortel	

* SMG2 #31, 31st May-4th June 1999, Tucson

Tdoc SMG2	Title	Source	Agenda Item
2-99-529/99	Liason statement from UWCC/PDFG regarding ANSI-41/IS-136 harmonisation with GSM EDGE specifications	UWCC/PDFG	4.3, 6.2, 7.1.6.6, 7.2.6.6, 7.3.6.3
2-99-530	Concept document for harmonisation of ANSI-41/IS-136 and GSM EDGE specifications	UWCC/PDFG	4.3, 6.2, 7.1.6.6 7.2.6.6, 7.3.6.3
2-99-541	Slide presentations from EDGE Workshop regarding harmonisation of IS-136HS	UWCC	6.2
2-99-544	Liaison statement on usage of GSM-only SIM Cards	3GPP TSG SA	4.3, 6.5, 7.2.6.10
2-99-590	CR 05.02-A046 rev 4 Introduction of 8-PSK burst format	Nokia	7.2.6.6
2-99-615	CR 05.05-A100 Output level dynamic operation for EDGE	EDGE WS#8	7.2.6.6
2-99-616	CR 05.05-A101 Transmitter/receiver performance requirements for EDGE	EDGE WS#8	7.2.6.6
2-99-617	CR 05.05-A102 Blocking performance for EDGE receivers	EDGE WS#8	7.2.6.6
2-99-618	Joint CRs regarding Power classes, modulation accuracy and Output RF spectrum mask EDGE MS. (Includes 05.05-A103 Power classes for EDGE, CR 05.05-A104 Modulation accuracy for EDGE, and CR 05.05-A105 Output RF spectrum for EDGE)	AT&T, Ericsson, Motorola, Nortel	7.2.6.6
2-99-619	Joint CRs for Power classes, Modulation accuracy and Spectrum mask for EDGE BTS (Includes CR 05.05-A108 Output power for EDGE BTS, CR 05.05-A109 Modulation accuracy for EDGE BTS, CR 05.05-A110 Output RF spectrum for EDGE)	AT&T, Ericsson, Motorola	7.2.6.6
2-99-620	Withdrawn	Ericsson	7.2.6.6
2-99-621	CR 05.05-A106 Performance at input level for EDGE	EDGE WS#8	7.2.6.6
2-99-622	Scenario calculations for high input levels in EDGE	Ericsson	7.2.6.6
2-99-623	Analysis of spectrum mask changes in EDGE	Ericsson	7.2.6.6
2-99-624	EVM performance with frequency and origin offset	Ericsson	7.2.6.6
2-99-625	Implementation issues on mobile station output power for EDGE	Ericsson	7.2.6.6
2-99-626	The influence of a Spectrum mask relaxation in EDGE on talk time and heating of a mobile station	Ericsson	7.2.6.6
2-99-627	Impact from 8-PSK introduction on existing GSM system performance	Ericsson	7.2.6.6
2-99-628	Varying simulation assumptions regarding Spectrum mask changes for 8-PSK in EDGE	Ericsson	7.2.6.6
2-99-629	Harmonising specifications regarding spurious emission and Intra BTS Intermodulation Attenuation	Ericsson	7.2.6.6
2-99-630	CR 03.64-A054 rev 1 Introduction of EGPRS	Nokia	7.1.6.6, 7.2.6.6
2-99-631	EGPRS One Phase Access, Short Access, Two Phase Access and Uplink Modulation Capability	Nokia	7.1.6.6
2-99-632	RLC Window Size Negotiation and Minimum Window Sizes	Nokia	7.1.6.6
2-99-633	Withdrawn	Rapporteur	6.2, 7.2.6.6, 7.1.6.6
2-99-635	Meeting report from the EDGE WS #8	Secretary	5, 6.2
2-99-636	10.59 EDGE project plan	Rapporteur	6.2
2-99-637	EDGE phase II	Ericsson	6.2
2-99-654	Proposed New BTS Clauses in GSM 05.05 and CR	AT&T Wireless Services, BellSouth Cellular, Nortel Networks	6.2
2-99-657	EGPRS Concept	Ericsson	6.2
2-99-658	CR 04.60-A366 04.60 CR clause 1-8	SMG2 EDGE WS	7.1.6.6
2-99-659	CR 04.60-A367 04.60 CR clause 9	SMG2 EDGE WS	7.1.6.6
2-99-660	CR 04.60-A368 04.60 CR clause 10	SMG2 EDGE WS	7.1.6.6
2-99-661	CR 04.60-A369 04.60 CR clause 11-12	SMG2 EDGE WS	7.1.6.6
2-99-662	Coding for MCS8	Ericsson	7.2.6.6
2-99-663	Puncturing for MCS8	Ericsson	7.2.6.6
2-99-667	CR 05.01-A018 05.01 changes for ECSD FACCH	Nokia	7.2.6.6
2-99-668	CR 05.02-A074 05.02 changes for ECSD FACCH	Nokia	7.2.6.6
2-99-669	CR 05.03-A022 Introduction of ECSD/EDGE in 05.03	Nokia	7.2.6.6
2-99-670	ECSD Concept Evaluation, v6.1	Nokia	6.2
2-99-671	CR 04.08-A562 CR to 04.08 due to EDGE	SMG2 EDGE WS	7.1.6.6
2-99-672	CR 08.08-A151 CR to 08.08 due to EDGE	Nokia	7.1.6.6
2-99-673	CR 08.58-A035 CR to 08.58 due to EDGE	Nokia	7.1.6.6
2-99-674	CR 04.08-A564 CR to 04.08 due to EDGE	Nokia	7.1.6.6
2-99-675	Fast measurement reporting and power control for ECSD	Nokia	7.2.6.6
2-99-677	CR 05.08 A085 rev 5 EDGE on the BCCH carrier	SMG2 EDGE WS	7.2.6.6
2-99-678	Introducing a slightly coded MCS for EGPRS	Nokia	7.2.6.6

Tdoc SMG2	Title	Source	Agenda Item
2-99-687	CR 04.60-A369 rev 1 04.60 CR clause 11-12	SMG2 EDGE WS/Ericsson	7.1.6.6
2-99-688	TR-45.3 Committee Correspondence	TIA TR45.3 Chair	4.3, 6.2
2-99-690	CR 08.58-A036 ECSD asymmetry	Nokia	7.1.6.6
2-99-691	CR 08.08-A152 ECSD asymmetry	Nokia	7.1.6.6
2-99-692	CR 04.04-A004 Fast Power Control for ECSD (for information)	Nokia	7.1.6.6
2-99-693	CR 04.08-A572 to Fast Power Control for ECSD (for information)	Nokia	7.1.6.6
2-99-694	CR 08.58-A037 Fast Power Control for ECSD (for information)	Nokia	7.1.6.6
2-99-695	CR 05.03-A023 Fast Power Control for ECSD (for information)	Nokia	7.2.6.6
2-99-696	CR 05.08-A147 Fast Power Control for ECSD	Nokia	7.1.6.6
2-99-697	Narrowband and wideband speech in EDGE 8-PSK channels	Nokia	6.2
2-99-698	(E)GPRS Phase II for IP-based services	AT&T, Lucent	6.2
2-99-725	EDGE: Some aspects on introduction of 8-PSK FACCH (EFACCH)	Ericsson	7.1.6.6.
2-99-726	EDGE: Coding/modulation asymmetry for ECSD	Ericsson	7.1.6.6
2-99-730	EDGE phase 2	Nokia	6.2
2-99-734	CR 04.08-A582 rev 1 MS Radio Access Capability IE.	Ericsson, Nokia	7.1.6.6.
2-99-737	CR 04.08-A582 rev 2 MS Radio Access Capability IE.	Ericsson, Nokia.	7.1.6.6.
2-99-738	CR 04.08-A584 rev 1 MS Radio Access Capability IE.	Ericsson, Nokia.	7.1.6.6.
2-99-764	Mobile Station Output Power for EDGE	BCP (Brazil), BellSouth, Cellcom (Israel), E-plus, SBC	7.2.6.6
2-99-795	Proposed Liaison Statement concerning EDGE phase 2	EDGE phase II drafting group	7.2.6.6
2-99-799	Simulation assumption for EDGE receiver performance analysis	EDGE WS#8	7.2.6.6
2-99-800	CR 05.01-A018 rev 1 05.01 changes for ECSD FACCH	Nokia	7.2.6.6
2-99-801	CR 05.02-A074 rev 1 05.02 changes for ECSD FACCH	Nokia	7.2.6.6
2-99-802	CR 05.03-A022 rev 1 Introduction of ECSD/EDGE in 05.03	Nokia	7.2.6.6
2-99-803	Prposed Work Item: "EDGE Compact and support for E-GPRS in ANSI-136 networks	Drafting group	7.2.6.6
2-99-805	CR 05.05-A102 rev 1 Blocking performance for EDGE receivers	SMG2-WPB	7.2.6.6
2-99-806	CR 05.05-A106 rev 1 Performance at high input level for EDGE	SMG2-WPB	7.2.6.6
2-99-807	CR 05.08 A085 rev 6 EDGE on the BCCH carrier	SMG2-WPB	7.2.6.6
2-99-809	Liaison Statement concerning EDGE phase 2	SMG2-WPB	7.2.6.6
2-99-816	CR 08.08-A152 rev 1 ECSD asymmetry	Nokia	7.1.6.6
2-99-817	CR 08.08-A151 rev 1 CR to 08.08 due to EDGE	Nokia	7.1.6.6
2-99-821	CR on 04.08 on EDGE (for information - requested no CR number)	Ericsson	7.1.6.6
2-99-826	Proposed Work Item: "EDGE Compact and support for E-GPRS in ANSI-136 networks	SMG2-WPB	7.2.6.6
2-99-827	CR 05.05-A103 rev 1 Power Classes for EDGE MS	SMG2-WPB	7.2.6.6
2-99-828	CR 05.05-A108 rev 1 Output power for EDGE BTS	SMG2-WPB	7.2.6.6
2-99-829	CR 05.05-A104 rev 1 Modulation Accuracy for EDGE MS and BTS	SMG2-WPB	7.2.6.6
2-99-830	CR 05.05-A105 rev 1 Spectrum Mask for EDGE MS and BTS	SMG2-WPB	7.2.6.6
2-99-845	LS concerning coding/modulation assymetry for ECSD	SMG2-WPA	7.1.6.6
2-99-846	CR 08.08-A151 rev 2 CR to 08.08 due to EDGE	Nokia	7.1.6.6
2-99-847	CR 03.64-A054 rev 2 Introduction of EGPRS, Revised 2-99-630	Nokia	7.1.6.6
2-99-848	CR 04.60-A366 re 1 04.60 CR clause 1-8, Revised 2-99-658	SMG2 EDGE WS.	7.1.6.6
2-99-850	CR 04.60-A368 rev 1 04.60 CR clause 10, Revised 2-99-660	SMG2 EDGE WS	7.1.6.6
2-99-851	CR 04.60-A369 rev 2 04.60 CR clause 11-12, Revised 2-99-687	SMG2 EDGE WS	7.1.6.6
2-99-872	Work Item: "EDGE Compact and support for E-GPRS in ANSI-136 networks	SMG2-WPB	7.2.6.6

* SMG2 EDGE WS #9, 21st –23rd June 1999, Stockholm

Tdoc SMG2	Title	Source	Agenda Item
2e99-193	Minutes of meeting from the EDGE workshop in Stockholm, Sweden	Secretary	2

2e99-194	Minutes of meeting from the EDGE workshop in Paris, France	Secretary	3
2e99-195	RLC Window Size Negotiation and Minimum Window Sizes	Nokia	6.3
2e99-196	EGPRS One Phase Access, Short Access, Two Phase Access and UL modulation capability	Nokia	6.3
2e99-197	04.08 CR on RR	Ericsson	6.3
2e99-198	Stealing Flags, Puncturing and Interleaving for EGPRS	Ericsson	6.3
2e99-199	LQC Measurements for EGPRS	Ericsson	6.3
2e99-200	Open EGPRS Issues in 04.60	Ericsson	6.3
2e99-201	Draft CR on 05.09	Ericsson	6.3
2e99-202	MS Radio Access Capability modification due to EDGE	Nokia	6.3
2e99-203	Impacts of a new MS RAC IE on signalling messages	Nokia	6.3
2e99-204	Enhancement to the 3-Carrier Compact	UWCC/PDFG	6.4
2e99-205	EDGE: Coding/modulation asymmetry for ECSD	Ericsson, Nokia	6.2
2e99-206	Power reference level for Power versus Time	HP	6.1
2e99-207	Review of 05.03 drafting changes for EGPRS	Motorola	6.3
2e99-208	USF coding for EGPRS	Nokia	6.3
2e99-209	ECSD concept	Nokia	6.2
2e99-210	Fast measurement reporting and power control	Nokia	6.2
2e99-211	CR to 08.08 due to Asymmetry for ECSD	Nokia	6.2
2e99-212	CR to 08.58 due to Asymmetry for ECSD	Nokia	6.2
2e99-213	CR to 04.08 due to Asymmetry for ECSD	Nokia	6.2
2e99-214	CR to 04.04 due to FPC for ECSD	Nokia	6.2
2e99-215	CR to 04.08 due to FPC for ECSD	Nokia	6.2
2e99-216	CR to 05.08 due to FPC for ECSD	Nokia	6.2
2e99-217	CR to 05.03 due to FPC for ECSD	Nokia	6.2
2e99-218	CR to 04.08 due to Asymmetry for ECSD	Nokia	6.2
2e99-219	Simulation assumptions for EDGE ECSD receiver performance analysis	Nokia	6.1
2e99-220	EGPRS receiver performance	Nortel	6.3
2e99-221	RLC window size	Nortel	6.3
2e99-222	Concern about introduction of new training sequence for access burst	Nortel	6.3
2e99-223	Header field length and coding scheme	Nortel	6.3
2e99-224	Concept Proposal for GPRS-136HS EDGE	UWCC/PDFG	6.4
2e99-225	CR 08.60: Asymmetrical channel coding for ECSD	Ericsson	6.2
2e99-226	CR 02.34: Asymmetry	Ericsson	6.2
2e99-227	CR 03.34: Asymmetry	Ericsson	6.2
2e99-228	CR A037 to 08.58 due to FPC for ECSD	Nokia	6.2
2e99-229	Withdrawn	Nokia	6.2
2e99-230	Requirement specification for GPRS 136 HS	UWCC/PDFG	6.4
2e99-231	New training sequences for Access burst due to EGPRS	Nokia	6.3
2e99-232	10.59, Version 1.14.0	Rapporteur	
2e99-233	ECSD receiver performance	Ericsson	6.1
2e99-234	Cochannel and adjacent channel performance for 8PSK EGPRS	Ericsson	6.1
2e99-235	Discussion paper on requirements for EDGE Compact	Nokia	6.4
2e99-236	Receiver Implementation Margin for EDGE	Ericsson	6.1
2e99-237	Correction to output level dynamic operation in EDGE	Ericsson	6.1
2e99-238	CR: Transmitter/receiver performance	Ericsson	6.1
2e99-239	Frequency Compensation Requirement	Ericsson	6.1
2e99-240	Remaining Issues in the 05.05 specification for EDGE Phase 1	Ericsson	6.1
2e99-241	Requirements in GSM for 850/1900 MHz mixed-mode systems	Ericsson	6.1
2e99-242	Proposed 850 MHz and 1900 MHz GSM 05.50 Scenario Document	TIA45.3	6.1
2e99-243	Harmonizing specifications regarding spurious emission and Intra BTS Intermodulation Attenuation	Ericsson	6.1
2e99-244	EGPRS Receiver Performance Preliminary Results	Motorola	6.1
2e99-245	Puncturing Schemes for the EGPRS Header	Motorola	6.2
2e99-246	Error Detection for EGPRS Header and Data Blocks	Motorola	6.2
2e99-247	Downlink 8-PSK EGPRS Interleaving and Slot Mapping with Bit Skipping	Motorola	6.2
2e99-248	Slides for EDGE#9	Rapporteur	
2e99-249	EGPRS simulation assumptions	EDGE WS#9	
2e99-250	Simulation Assumptions for EDGE receiver performance analysis		
2e99-251	Timeplan and list of CRs for WI on EDGE Compact etc"	Rapporteur	
2e99-252	CR to 04.60	Nokia	
2e99-253	CR to 04.08 MS Radio Access Capability	Nokia	
2e99-254	Background information on EDGE Compact Feature Development	SBC/BellSouth/AT&T	

2e99-255	Report from the 05.05 drafting group	Secretary	
2e99-256	EGPRS receiver performance revision 1	Nortel	
2e99-257	Notes from Group 2 discussion	Secretary	
2e99-258	242 revised	Drafting group	
2e99-259	Revised 255	Secretary	
2e99-260	Presentation of Tdoc 224	Ericsson	
2e99-261	Simulation Assumptions for EDGE receiver performance analysis, revision 1	SMG2 EGDE WS	

* SMG1 Jul 99, 5-9th July 1999, Quebec City

Tdoc	Title	Source	For:
1-99-208	EDGE II	Ericsson	
1-99-291	EDGE Project Plan 10.59 V1.14.0	Secretary	
1-99-292	CR on 02.34 concerning ECSD Asymmetry	Ericsson	
1-99-293	EDGE Phase II	Ericsson	
1-99-297	GPRS 136HS EDGE - Motivation presentation	UWCC	
1-99-298	GPRS 136HS EDGE – Technical presentation	UWCC	
1-99-299	Concept proposal GPRS 136 HS EDGE	UWCC	
1-99-302	Requirements for EDGE Phase II	Lucent	
1-99-306	EDGE Phase II Ad-hoc meeting notes	Chairman of ad-hoc	
1-99-318	EDGE Phase II Ad-hoc meeting notes (revised)	Chairman of ad-hoc	
s1-99410	3GIP press release		
s1-99409	IP, GPRS and 3GPP Release 2000 For discussion	Andy Watson, Motorola	
s1-99411	Issues for an all IP based network for R00 for Decision	Siemens	
s1-99478	IP based networks and high level requirements for R00	BT, Wayne Ashwell	
s1-99479	Requirements for an all-IP-Based Network	BT, Wayne Ashwell	
s1-99480	Architectural approach for an all-IP-Based Network	BT, Wayne Ashwell	
s1-99503	S1 Release 2000 Planning	Lucent	
s1-99526	Liaison statement concerning requirements for all-IP option for release 2000	S1	
s1-99542	Liaison statement concerning requirements for all-IP option for release 2000 (revised)	S1	S2, SMG2, TSG RAN

* SMG10 Aug 99, 3-5 August 1999, Sofia Antipolis

Tdoc	Title	Source	For:
AP99-089	CR to 03.20 on EDGE	Nokia	
AP99-100	CR to 03.20 on A5 adaptation for EDGE	SMG10	
AP99-106	LS to GSM Association Security Group, copy to SMG plenary	SMG10	SMG, GSM NA

* SMG3 Aug 99, 16-20 August 1999, Oxford

Tdoc	Title	Source	For:
N1-99778	CR 24.008-A014 BCIE modifications due to ECSD asymmetry	Nokia, Ericsson	
N1-99811	EDGE: Coding/modulation asymmetry for ECSD	Nokia, Ericsson	
N1-99882	CR 03.34-A007 Modifications due to ECSD asymmetry	Nokia, Ericsson	

* SMG7 EDGE WS#3, 24-27 August 1999, Paris

Filename	Title	Source	Proposed for
7e99-017	EDGE Receiver Tests: Technical issues for discussion (version 2)	Ericsson	
7e99-018	*Not used*	Motorola	
7e99-019	Report from SMG7 EDGE ad-hoc meeting #3	Motorola	
7e99-020	Inclusion of EDGE RF test cases into GSM 11.10-1	HP	
7e99-021	Issues relating to RX measurements in EDGE	HP	

* SMG2 EDGE WS 10, 24-27 August 1999, Paris

Tdoc	Title	Source	For:
2e99-262	Minutes of meeting from the EDGE workshop in Paris, France	Secretary	2
2e99-263	Minutes of meeting from the EDGE workshop in Stockholm, Sweden	Secretary	2
2e99-264	10.59, V1.15.0	Rapporteur	5.2
2e99-265	Status rapport for EDGE Compact	Rapporteur	5.2
2e99-266	Radio link performance with EDGE repeater.	Ericsson	6.1
2e99-267	CR: Modulation accuracy for EDGE repeater.	Ericsson	6.1
2e99-268	Frequency compensation analysis for EDGE receiver	Ericsson	6.1
2e99-269	CR: Frequency compensation requirement for EDGE receiver	Ericsson	6.1
2e99-270	CR: Modulation accuracy for EDGE MS and BTS	Ericsson	6.1
2e99-271	CR: Output level Dynamic operation in EDGE	Ericsson	6.1
2e99-272	ECSD receiver performance	Ericsson	6.1

2e99-273	ECSD receiver performance with impairments	Ericsson	6.1
2e99-274	EGPRS receiver performance	Ericsson	6.1
2e99-275	EGPRS receiver performance with impairments	Ericsson	6.1
2e99-276	CR: EDGE Blocking performance for micro and pico-BTS	Ericsson	6.1
2e99-277	CR: Transmitter/receiver performance	Ericsson	6.1
2e99-278	CR 05.03: EGPRS channel coding	Motorola	6.1, 6.4
2e99-279	EGPRS One Phase Access, Short Access, Two Phase Access and UL modulation capability	Nokia	6.4
2e99-280	CR 04.04: Introduction of EGPRS (PDTCH block formats)	Nokia	6.4
2e99-281	CR 05.01: Definition of the PDTCH for EGPRS. Plus misc. changes due to EDGE.	Nokia	6.4
2e99-282	CR 05.02 New Training Sequences for Access Burst	Nokia	6.4
2e99-283	CR 03.64 Introduction of EGPRS	Nokia	6.4
2e99-284	CRs to 04.60, Part 1	Ericsson	6.4
2e99-285	CRs to 04.60, Part 2	Ericsson	6.4
2e99-286	CRs to 04.60, Part 3	Ericsson	6.4
2e99-287	CRs to 04.60, Part 4	Ericsson	6.4
2e99-288	CR on Radio Resource Management to 04.08	Ericsson	6.4
2e99-289	Handling of EGPRS PACKET CHANNEL REQUESTS	Ericsson	6.4
2e99-290	Evaluation of First and Next Partial Bitmaps	Ericsson	6.4
2e99-291	EGPRS Link Quality Control Measurements and Filtering	Ericsson	6.4
2e99-292	Incremental Redundancy Performance Requirements	Ericsson	6.4
2e99-293	CR to 05.09 in IR performance	Ericsson	6.4
2e99-294	EGPRS Impact on LLC, SNDCP and BSSGP	Ericsson	6.4
2e99-295	withdrawn		
2e99-296	CR on GSM 11.11 for Compact Cell Selection	UWCC	6.2
2e99-297	CR on GSM 04.18 for Compact Cell Selection and Compact Control Channels	UWCC	6.2
2e99-298	CR on GSM 04.60 for Compact Cell Selection	UWCC	6.2
2e99-299	CR on GSM 04.60 for Compact Cell Reselection	UWCC	6.2
2e99-300	CR on GSM 24.008 for Compact Cell Selection	UWCC	withdrawn
2e99-301	Proposed Change Request (CR) to GSM 05.05 Version 8.0.0 Clause 2: "Frequency Bands and Channel Arrangement" for 850 MHz.	UWCC	6.2
2e99-302	Proposed EDGE Compact Change Request for GSM 04.03 Ver. 6.0.0	UWCC	6.2
2e99-303	Proposed EDGE Compact Change Request for GSM 05.01 Ver. 8.0.0	UWCC	6.2
2e99-304	Proposed EDGE Compact Change Request for GSM 05.02 Ver. 8.0.1	UWCC	6.2
2e99-305	Proposed EDGE Compact Change Request for GSM 05.10 Ver.7.0.0	UWCC	6.2
2e99-306	PRBS length for EVM evaluation	HP	6.1
2e99-307	CR on 04.18 for 30-kHz related broadcast information	UWCC	6.2
2e99-308	CR on 04.60 for 30-kHz related broadcast information	UWCC	6.2
2e99-309	CR on 05.02 for 30-kHz related broadcast information	UWCC	6.2
2e99-310	CR 02.06: Compact Control Channels	UWCC	6.2
2e99-311	CR 03.22: Compact Cell Selection	UWCC	6.2
2e99-312	CR 05.08: Compact Cell Selection	UWCC	6.2
2e99-313	CR 03.64: Compact Cell Reselection	UWCC	6.2
2e99-314	CR 05.02: Compact Cell Reselection	UWCC	6.2
2e99-315	Real time-EGPRS concept	Ericsson	6.3
2e99-316	A work plan for EDGE phase 2	Ericsson	6.3
2e99-317	Withdrawn		
2e99-318	Withdrawn		
2e99-319	Withdrawn		
2e99-320	Withdrawn		
2e99-321	CR on GSM 04.18 for Compact Cell Reselection	UWCC	6.2
2e99-322	EDGE Compact concept proposal	UWCC	6.2
2e99-323	Changes to 11.21 due to EDGE	Ericsson	6.1
2e99-324	Proposed 850 MHz and 1900 MHz Mixed-Mode Change Request for GSM 05.50, Ver. 7.1.0	TIA 45.3	6.1
2e99-325	Proposed 850 MHz and 1900 MHz Mixed-Mode Change Request for GSM 05.05, Ver. 8.0.0	TIA 45.3	6.1
2e99-326	ECSD receiver performance	Nokia	6.1
2e99-327	Simulation assumptions for EDGE ECSD receiver performance analysis	Nokia	6.1
2e99-328	CR 04.04 due to Fast power control	Nokia	6.5
2e99-329	CR 08.58 due to Fast power control	Nokia	6.5
2e99-330	CR 04.08 due to Fast power control	Nokia	6.5
2e99-331	Fast Measurement Reporting and Power Control for ECSD	Nokia	6.5
2e99-332	CR 04.08 RR due to Asymmetry	Nokia	6.5

2e99-333	CR 08.58 due to Asymmetry	Nokia	6.5
2e99-334	CR 08.08 due to Asymmetry	Nokia	6.5
2e99-335	CR to 03.20: Introduction of EDGE variant of A5 algorithm (for information, already approved in SMG10)	Nokia	6.5
2e99-336	CR 05.02-A??? Introduction of Fast Power Control for ECSD in 05.02	Nokia	6.5
2e99-337	CR 05.03-A??? Introduction of Fast Power Control for ECSD in 05.03	Nokia	6.5
2e99-338	CR 05.08-A147 rev3 Fast Power Control for ECSD	Nokia	6.5
2e99-339	CR 05.08-A??? Link Quality Control measurements for EGPRS	Nokia	6.4
2e99-340	Impacts of MS Radio Access Capability information on signalling messages	Nokia	6.4
2e99-341	CR 24.008: MS Radio Access Capability IE	Nokia	6.4
2e99-342	CR 08.18: MS Radio Access Capability IE	Nokia	6.4
2e99-343	CR 04.60: MS RAC impacts on EGPRS One Phase Access and Two Phase Access procedures	Nokia	6.4
2e99-344	TFI for EGPRS	Lucent	6.4
2e99-345	Polling for Segmented ARQ Bitmaps in EGPRS	Lucent	6.4
2e99-346	Link Quality Metrics for EGPRS	Lucent	6.4
2e99-347	Variability Metrics for EGPRS	Lucent	6.4
2e99-348	EDGE EGPRS Receiver Performance	Lucent	6.1
2e99-349	MAC Protocols for Real-Time EGPRS (RT-EGPRS)	Lucent	6.3
2e99-350	Capacity Caluclations for Alternative MAC Protocols in RT-EGPRS	Lucent	6.3
2e99-351	Discussion Paper on ERAN Architecture	Lucent	6.3
2e99-352	GPRS-136HS Impact to GSM/ANSI Standards	UWCC	6.2
2e99-353	LS: Use of A5 algorithms for EDGE	SMG10	4
2e99-354	EGPRS receiver performance	Nortel	6.1
2e99-355	EGPRS receiver performance with impairments	Nortel	6.1
2e99-356	Comments on Edge Phase II	Nortel	6.3
2e99-357	CR to 08.60 due to asymmetry	Ericsson	6.5
2e99-358	Intra BTS Intermodulation Analysis	Ericsson	6.1
2e99-359	Blocking characteristics for 850/1900 MHz base stations	Ericsson	6.1
2e99-360	EMC aspects of 8PSK modulation / 05.90, a first analysis	Lucent	6.1
2e99-361	Performance Results for EDGE EGPRS 8PSK Transmission Schemes	Nokia	6.1
2e99-362	Radio and service requirements for EDGE Compact	UWCC	6.2
2e99-363	Draft technical report: Arichtucture for an all-IP network	AT&T	6.3
2e99-364	Radio related requirements for all-IP architecture	AT&T	6.3
2e99-365	CR for EDGE compact	UWCC	6.2
2e99-366	Receiver performance simulation results	Motorola	6.1
2e99-367	Overhead presentation for Worskhop #10	Rapporteur	5.2
2e99-368	Discussion of Blocking characteristics and AM suppression	Nokia	6.1
2e99-369	Frequency compensation requirements for EDGE receivers: revised version from 2e99-269.	SMG2EDGE WS	
2e99-370	Modulation accuracy for EDGE MS and BTS	SMG2EDGE WS	
2e99-371	CR: Output level Dynamic operation in EDGE	SMG2EDGE WS	
2e99-372	CR: EDGE Blocking performance for micro and pico-BTS, Revised version	SMG2EDGE WS	
2e99-373	Receiver performance subgroup	SMG2EDGE WS RX subgroup	
2e99-374	Revision of Tdoc 2e99-365, CR for EDGE compact	SMG2EDGE WS	
2e99-375	Revision of Tdoc 2e99-301, Proposed Change Request (CR) to GSM 05.05 Version 8.0.0 Clause 2: "Frequency Bands and Channel Arrangement" for 850 MHz.	SMG2EDGE WS	
2e99-376	Revision of Tdoc 2e99-302, Proposed EDGE Compact Change Request for GSM 04.03 Ver. 6.0.0	SMG2EDGE WS	
2e99-377	Revision of Tdoc 2e99-303, Proposed EDGE Compact Change Request for GSM 05.01 Ver. 8.0.0	SMG2EDGE WS	
2e99-378	Revision of Tdoc 2e99-304, Proposed EDGE Compact Change Request for GSM 05.02 Ver. 8.0.1	SMG2EDGE WS	
2e99-379	Revision of Tdoc 2e99-305, Proposed EDGE Compact Change Request for GSM 05.10 Ver.7.0.0	SMG2EDGE WS	
2e99-380	Proposed EDGE compact change request for GSM 05.03	UWCC	
2e99-381	Revised of Tdoc 2e99-307, Non-GSM broadcast information.	SMG2EDGEWS	withdrawn
2e99-382	Radio aspects for the planning of RT-EDGE work	Nokia	
2e99-383	Revised of Tdoc 2e99-310, CR 02.06: Compact Control Channels	SMG2EDGE WS	
2e99-384	Revised of Tdoc 2e99-298, CR on GSM 04.60 for Compact Cell Selection	SMG2EDGE WS	
2e99-385	Revised of Tdoc 2e99-299, CR 04.60: EDGE compact cell	UWCC	

	reselection		
2e99-386	Revised of Tdoc 2e99-313, CR 03.64: EDGE compact cell reselection	SMG2EDGEWS	
2e99-387	Revised of Tdoc 2e99-314, CR 05.02: Compact Cell Reselection	SMG2EDGE WS	
2e99-388	Revised of Tdoc 2e99-321, CR on GSM 04.18 for Compact Cell Reselection	SMG2EDGE WS	
2e99-389	Link level simulations for alternative MAC protocols in RT-EGPRS	Lucent	
2e99-390	Revised from Tdoc 2e99-283, CR 03.64	SMG2EDGE WS	
2e99-391	Revised from Tdoc 2e99-280, CR 04.04	SMG2EDGE WS	
2e99-392	Comments to 2e99-285	Lucent	
2e99-393	Revised from Tdoc 2e99-284, CR 04.60 Handling of EGPRS PACKET CHANNEL REQUEST	SMG2EDGE WS	
2e99-394	LS from SMG7 EDGE to SMG2EDGE regarding MS transmitter tests	SMG7EDGE WS	
2e99-395	Revised from Tdoc 2e99-286, CR 04.60: Clause 10	SMG2EDGE WS	
2e99-396	S1 inputs	AT&T	
2e99-397	EGPRS II Concept paper outline	AT&T, Ericsson, Lucent, Nortel, Nokia	
2e99-398	EDGE Phase II discussion report	Phase II Discussion Group Convenor (AT&T)	
2e99-399	Reserved		Withdrawn
2e99-400	Reserved		withdrawn
2e99-401	Revised of Tdoc 2e99-373, Report from receiver performance subgroup	SMG2EDGE WS	
2e99-402	Revised of Tdoc 2e99-281, CR 05.01 Introduction of the PDTCH for EGPRS	SMG2EDGE WS	
2e99-403	Revised of Tdoc 2e99-282, CR 05.02 New training sequences for Access Burst	SMG2EDGE WS	
2e99-404	Revised of Tdoc 2e99-278, CR 05.03 EGPRS Channel coding	SMG2EDGE WS	
2e99-405	CR04.60 Link Quality Measurements		
2e99-406	Summary of EDGE compact discussions at EDGE WS #10	UWCC Rapporteur	
2e99-407	Revised of Tdoc 2e99-311, CR on 03.22	UWCC	
2e99-408	Revised of Tdoc 2e99-312, CR on 05.08	UWCC	
2e99-409	Revised of Tdoc 2e99-332, CR on 04.18 for Asymmetry	SMG2EDGE WS	
2e99-410	Revised of Tdoc 2e99-333, CR on 05.68 for Asymmetry	SMG2EDGE WS	
2e99-411	Revised of Tdoc 2e99-334, CR on 08.08 for Asymmetry	SMG2EDGE WS	
2e99-412	Revised of Tdoc 2e99-357, CR on 08.60 for asymmetry	SMG2EDGE WS	
2e99-413	Revised of Tdoc 2e99-328, CR 04.04 due to Fast power control	SMG2EDGE WS	
2e99-414	Revised of Tdoc 2e99-329, CR on 08.58 due to Fast power control	SMG2EDGE WS	
2e99-415	Revised of Tdoc 2e99-330, CR 04.18 due to Fast power control	SMG2EDGE WS	
2e99-416	Revised of Tdoc 2e99-336, CR 05.02-A??? Introduction of Fast Power Control for ECSD in 05.02	SMG2EDGE WS	
2e99-417	Revised of Tdoc 2e99-337, CR 05.03-A??? Introduction of Fast Power Control for ECSD in 05.03	SMG2EDGE WS	
2e99-418	Revised of Tdoc 2e99-324, Proposed 850 MHz and 1900 MHz Mixed-Mode Change Request for GSM 05.50	SMG2EDGE WS	
2e99-419	Revised of Tdoc 2e99-325, Proposed 850 MHz and 1900 MHz Mixed-Mode Change Request for GSM 05.05	SMG2EDGE WS	
2e99-420	LS from SMG2EDGE to SMG7EDGE regarding MS transmitter tests: answer to Tdoc 2e99-394	SMG2EDGE WS	
2e99-421	Report from MS RAC group	MS RAC subgroup	
2e99-422	Revised of Tdoc 2e99-398, EDGE Phase II discussion report	SMG2EDGE WS	
2e99-423	Revised of Tdoc 2e99-421, Report from MS RAC subgroup	SMG2EDGE WS	
2e99-424	Revised of Tdoc 2e99-377, Proposed EDGE Compact Change Request for GSM 05.01 Ver. 8.0.0	SMG2EDGE WS	
2e99-425	Revised of Tdoc 2e99-384, CR on GSM 04.60 for Compact Cell Selection	SMG2EDGEWS	
2e99-426	Revised of Tdoc 2e99-385. CR 04.60: EDGE compact cell reselection	SMG2EDGE WS	
2e99-427	Revised of Tdoc 2e99-388, CR on GSM 04.18 for Compact Cell Reselection	SMG2EDGE WS	
2e99-428	Revised of Tdoc 2e99-386, CR 03.64: EDGE compact cell reselection	SMG2EDGE WS	
2e99-429	Revised of Tdoc 2e99-420, Response to input from	SMG2EDGE WS	

	SMG7EDGE (Tdoc 2e99-394)		
2e99-430	Revised of Tdoc 2e99-397, EGPRS II Concept paper outline	AT&T, Ericsson, Lucent, Nortel, Nokia	
2e99-431	Revised of Tdoc 2e99-380, Proposed EDGE compact change request for GSM 05.03	SMG2EDGE WS	
2e99-432	Revised of Tdoc 2e99-374, CR for EDGE compact	SMG2EDGE WS	
2e99-433	Revised of Tdoc 2e99-378, Proposed EDGE Compact Change Request for GSM 05.02 Ver. 8.0.1	SMG2EDGE WS	

* SMG3 3GPP TSGN1 Sept 99, 13th-17th Sept 1999, Makuhari

* SMG3 3GPP TSGN1 Sept 99, 13th-17th Sept 1999, Makuhari

Tdoc	Title	Source	Agenda Item
N1-99996	CR 22.034 due to asymmetry for ECSD	Nokia	
N1-99997	CR 23.034 due to asymmetry for ECSD	Nokia	
N1-99998	CR 24.008 due to asymmetry for ECSD	Nokia	
N1-99999	IMPACTS OF MS RADIO ACCESS CAPABILITY INFORMATION ON SIGNALLING MESSAGES	Nokia	
N1-99A00	CR 24.008: MS RADIO ACCESS CAPABILITY IE DUE TO EDGE	Nokia	
N1-99A01	CR 08.18: MS RADIO ACCESS CAPABILITY IE	Nokia	
N1-99B16	Revised version of N1-99998	Nokia	
N1-99B17	Revised version of N1-99A00	Nokia	
N1-99B18	Revised version of N1-99997	Nokia	

* SMG2 #32, 20th-24th Sept 1999, Bordeaux

Tdoc	Title	Source	Agenda Item
2-99-931	CR 04.18-A003 Non-GSM Broadcast Information	UWCC	7.1.5.9
2-99-932	CR 04.60-A426 Non-GSM Broadcast Information	UWCC	7.1.5.9
2-99-933	CR 05.02-A081 Non-GSM Broadcast Information	UWCC	7.2.6.6
2-99-934	Introduction to CRs for 'Non-GSM Broadcast Information' related CRs	UWCC	6.2, 7.1.5.9, 7.2.6.6
2-99-948	CR 04.60-A443 Clause 9 for EGPRS support	Ericsson	7.1.5.9
2-99-949	CR 04.60-A444 Clause 11-12 for EGPRS support	Ericsson	7.1.5.9
2-99-951	CR 04.60-A445 Clause 8 Resegment bit Clarification	Ericsson	7.1.5.9
2-99-952	CR 04.18-A008 EGPRS support in RR Signalling	Ericsson	7.1.5.9
2-99-953	CR 24.008-Axxx EGPRS support	Ericsson	7.1.5.9
2-99-954	EGPRS impacts on SNDCP, BSSGP and LCC protocols	Ericsson	7.1.5.9
2-99-955	CR04.60-A397 Miscellaneous corrections (R97), CR04.60-A398 Miscellaneous corrections (R98), CR04.60-A399 Miscellaneous corrections (R99)	ETSI MCC	7.1.5.9
2-99-984	CR 05.05-A118 Frequency compensation requirements for EDGE receivers	EDGE Workshop #10	7.2.6.6
2-99-985	CR 05.05-A119 Modulation accuracy for EDGE MS and BTS	EDGE Workshop #10	7.2.6.6
2-99-986	CR 05.05-A114 Output level Dynamic operation in EDGE	EDGE Workshop #10	7.2.6.6
2-99-987	CR 05.05-A115 EDGE Blocking performance for micro and pico-BTS	EDGE Workshop #10	7.2.6.6
2-99-988	CR 05.05-A116 Frequency Bands and Channel Arrangement for 850 MHz.	EDGE Workshop #10	7.2.6.6
2-99-989	CR 04.03-A006 EDGE Compact Change Request for GSM 04.03	EDGE Workshop #10	7.1.5.9
2-99-990	CR 05.10-A038 Proposed EDGE Compact Change Request for GSM 05.10	EDGE Workshop #10	7.2.6.6
2-99-991	CR 05.02-A082 Compact Cell Reselection	EDGE Workshop #10	7.2.6.6
2-99-992	CR 03.64-A058: EGPRS fine tuning	EDGE Workshop #10	7.2.6.6
2-99-993	CR 04.04-A005 EGPRS	EDGE Workshop #10	7.1.5.9
2-99-994	CR 04.60-A439 Handling of EGPRS PACKET CHANNEL REQUEST	EDGE Workshop #10	7.1.5.9
2-99-995	CR 04.60-A440 Clause 10	EDGE Workshop #10	7.1.5.9
2-99-996	Report from receiver performance subgroup	EDGE Workshop #10	7.2.6.6
2-99-997	CR 05.01-A021 Introduction of the PDTCH for EGPRS	EDGE Workshop #10	7.2.6.6
2-99-998	CR 05.02-A083 New training sequences for Access Burst	EDGE Workshop #10	7.2.6.6
2-99-999	CR 05.03-A025 EGPRS Channel coding	EDGE Workshop #10	7.2.6.6
2-99-a00	CR 04.18-A004 Asymmetry	EDGE Workshop #10	7.1.5.9
2-99-a01	CR 08.58-A036 rev 1 Asymmetry	EDGE Workshop #10	7.1.5.9
2-99-a02	CR 08.08-A152 rev 1 Asymmetry	EDGE Workshop #10	7.1.5.9
2-99-a03	CR 08.60-A009 Asymmetry	EDGE Workshop #10	7.1.5.9
2-99-a04	CR 04.04-A004 Fast power control	EDGE Workshop #10	7.1.5.9
2-99-a05	CR 08.58-A037 Fast power control	EDGE Workshop #10	7.1.5.9
2-99-a06	CR 04.18-A005 Fast power control	EDGE Workshop #10	7.1.5.9

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2-99-a07	CR 05.02-A084 Introduction of Fast Power Control for ECSD in 05.02	EDGE Workshop #10	7.2.6.6
2-99-a08	CR 05.03-A023 rev 2 Introduction of Fast Power Control for ECSD in 05.03	EDGE Workshop #10	7.2.6.6
2-99-a09	CR 05.50-A008 850 MHz and 1900 MHz Mixed-Mode	EDGE Workshop #10	7.2.6.6
2-99-a10	CR 05.05-A117 850 MHz and 1900 MHz Mixed-Mode	EDGE Workshop #10	7.2.6.6
2-99-a11	EDGE Phase II discussion report	EDGE Workshop #10	6.2
2-99-a12	Report from MS RAC subgroup	EDGE Workshop #10	7.1.5.9
2-99-a13	CR 05.01-A022 EDGE Compact Change Request	EDGE Workshop #10	7.2.6.6
2-99-a14	CR 04.60-A441 Compact Control channel	EDGE Workshop #10	7.1.5.9
2-99-a15	CR 04.60-A442 EDGE compact cell reselection	EDGE Workshop #10	7.1.5.9
2-99-a16	CR 04.18-A006 Compact Cell Reselection	EDGE Workshop #10	7.1.5.9
2-99-a17	CR 03.64-A059 EDGE compact cell reselection	EDGE Workshop #10	7.2.6.6
2-99-a18	CR 05.03-A027 EDGE compact change request	EDGE Workshop #10	7.2.6.6
2-99-a19	CR 03.64-A060 Compact logical channels	EDGE Workshop #10	7.2.6.6
2-99-a20	CR 05.02-A085 EDGE Compact Change Request	EDGE Workshop #10	7.2.6.6
2-99-a43	Verification of MCS3 performance	Ericsson	7.2.6.6
2-99-a44	Withdrawn (ECSD Receiver Performance with impairments)	Ericsson	7.2.6.6
2-99-a45	Withdrawn (Remaining EGPRS Receiver Performance Issues)	Ericsson	7.2.6.6
2-99-a46	EDGE: Some Aspects on Introduction of 8-PSK FACCH (EFACCH)	Ericsson	7.2.6.6
2-99-a47	Incremental Redundancy Performance Requirements	Ericsson	7.2.6.6
2-99-a48	Link Quality Control Measurements and Filtering	Ericsson	7.2.6.6
2-99-a49	CR 05.09-A003 Introduction of EGPRS Link Quality Control	Ericsson	7.2.6.6
2-99-a50	EDGE: Concept Proposal for EGPRS Phase 2	Ericsson	6.2, 7.2.6.6
2-99-a51	EDGE: Performance Evaluation of EGPRS Phase 2 Bearers	Ericsson	6.2, 7.2.6.6
2-99-a52	10.59, V1.16.0	Rapporteur	6.2
2-99-a54	Minutes of meeting from the EDGE workshop in Paris, France	EDGE Workshop #10	6.2
2-99-a72	CR 03.30-006 Radio Network Planning Aspects	Nokia	7.2.6.6
2-99-b28	CR05.05-A101 rev 1 Transmitter/receiver performance requirements for EDGE	Ericsson	7.2.6.6
2-99-b29	Introduction to Compact Cell Selection related CRs	UWCC	7.2.6.6, 7.1.5.9
2-99-b30	CR 03.22-A042 Additional Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b31	CR 03.22-A043 Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b32	CR 005.08-A180 Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b33	CR 04.18-A015 Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b34	CR 04.60-A495 Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b35	CR 11.11-Axxx Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b36	CR 02.11-Axxx Compact Cell Selection	UWCC	7.2.6.6, 7.1.5.9
2-99-b46	CR 10.59-A001 Service and Radio Requirementsfor EDGE Compact	UWCC	6.2
2-99-b54	Liaison statement concerning requirements for all-IP option for release 2000	3GPP S1	4.2
2-99-b55	Liaison statement concerning the work plan for all-IP option for release 2000	3GPP S2	4.2
2-99-b61	ECSD Receiver Performance	Nokia	7.2.6.6
2-99-b62	ECSD Receiver Performance with impairments	Nokia	7.2.6.6
2-99-b63	EGPRS receiver performance	Nortel Networks	7.2.6.6
2-99-b64	EGPRS receiver performance with impairements	Nortel Networks	7.2.6.6
2-99-b93	CR 05.03-A030 Correction to E-FACCH/F interleaving	Nokia	7.2.6.6
2-99-b94	EGPRS One Phase Access, Two Phase Access, Short Access and Uplink Modulation Capability	Nokia	7.1.5.9, 7.2.6.6
2-99-b95	CR 05.08-A181 Link Quality Control measurements for EGPRS (for information)	Nokia	7.2.6.6
2-99-b96	Discussion Document, Edge practical BTS implementation and spectrum due to switching requirements on GSM	Siemens	7.2.6.6
2-99-b97	EGPRS Phase II Radio Requirements	AT&T	6.2, 7.2.6.6
2-99-c14	CR05.05-A121 PCS 1900 MHz intermodulation requirements	Ericsson	7.2.6.6
2-99-c15	Intra BTS Intermodulation Analysis in mixed-mode environment	Ericsson	7.2.6.6
2-99-c51	ECSD Receiver Performance - Proposal for Ideal Receiver Performance Requirements	Nokia & Ericsson	7.2.6.6
2-99-c53	CR 05.08-A147 rev 4 Fast Power Control for ECSD	Nokia	7.2.6.6
2-99-c54	Fast Measurement Reporting and Power Controlfor ECSD	Nokia	7.2.6.6
2-99-c56	WITHDRAWN CR 05.05-A122 Modulation accuracy for EDGE MS and BTS	Siemens	7.2.6.6
2-99-c57	WITHDRAWN Pseudo random symbol sequence for EVM measurement	Siemens	7.2.6.6
2-99-c59	Link Quality Metrics for EGPRS	Lucent	7.2.6.6, 7.1.5.9

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2-99-c60	Variability Metrics for EGPRS	Lucent	7.2.6.6
2-99-c72	Incremental Redundancy modes using several MCSs	Nokia	7.2.6.6
2-99-c80	Impacts of MS Radio Access Capability information on signalling messages	Nokia	7.1.5.9
2-99-c81	CR 24.008-Axxx MS Radio Access Capability IE due to EDGE	Nokia	7.1.5.9
2-99-c82	CR 08.18-A078 MS Radio Access Capability IE	Nokia	7.1.5.9
2-99-c83	CR 04.60-A540 MS RAC impacts on EGPRS One Phase Access and Two Phase Access procedures	Nokia	7.1.5.9
2-99-c86	EDGE phase II : BSS view	Nortel NetworksNortel Networks	6.2
2-99-c87	On E-FACCH and link adaptation for ECSD	Nokia	7.2.6.6
2-99-c90	CR05.05-A119 rev 1, Modulation accuracy for EDGE MS and BTS	Ericsson, Hewlett Packard	7.2.6.6
2-99-c97	Concept Proposal for GPRS-136HS EDGE rev 1.4	UWCC	6.2
2-99-c99	EDGE Phase 2	Motorola	6.2, 7.2.6.6
2-99-d00	CR 10.59-A001 rev 1 Service and Radio Requirementsfor EDGE Compact	UWCC	6.2, 7.2.6.6
2-99-d03	Presentation of EDGE status	Rapporteur	6.2
2-99-d04	EGPRS Phase 2 presentation	Ericsson	6.2
2-99-d34	CR 05.05-A126 8-PSK requirement for GSM 400	Ericsson	7.2.6.6
2-99-d35	8-PSK performance with cavity combiner	Nokia	7.2.6.6
2-99-d80	Analysis of end-end delay for RT-EGPRS Services	Lucent Technologies	7.2.6.6
2-99-d81	Study of Physical & RLC/MAC Design for transmission of Speech Packkets over EGRPS Air interface	Lucent Technologies	7.2.6.6
2-99-d82	EGPRS receiver performance with impairments	Nokia	7.2.6.6
2-99-d83	CR 05.05-A117 rev 1 850 MHz and 1900 MHz Mixed-Mode	SMG2-WPB	7.2.6.6
2-99-d84	CR05.05-A121 rev 1 PCS 1900 MHz intermodulation requirements	Ericsson	7.2.6.6
2-99-d85	CR 05.05-A118 rev 1 Frequency compensation requirements for EDGE receivers	EDGE Workshop #10	7.2.6.6
2-99-d86	CR05.05-A119 rev 2, Modulation accuracy for EDGE MS and BTS	Ericsson	7.2.6.6
2-99-d87	CR 05.05-A114 rev 1 Output level Dynamic operation in EDGE	SMG2-WPB	7.2.6.6
2-99-d90	CR 05.02-A084 Introduction of Fast Power Control for ECSD in 05.02	SMG2-WPB	7.2.6.6
2-99-d91	CR 05.02-A083 rev 1 New training sequences for Access Burst	SMG2-WPB	7.2.6.6
2-99-d92	CR 05.05-A116 rev 1 Frequency Bands and Channel Arrangement for 850 MHz.	SMG2-WPB	7.2.6.6
2-99-d93	CR 05.10-A038 rev 1 Proposed EDGE Compact Change Request for GSM 05.10	SMG2-WPB	7.2.6.6
2-99-d94	CR 05.01-A022 rev 1 EDGE Compact Change Request	SMG2-WPB	7.2.6.6
2-99-d95	CR 05.03-A027 rev 1 EDGE compact change request	SMG2-WPB	7.2.6.6
2-99-d96	CR 03.64-A060 rev 1 Compact logical channels	SMG2-WPB	7.2.6.6
2-99-d97	CR 05.02-A085 rev 1 EDGE Compact Change Request	SMG2-WPB	7.2.6.6
2-99-d98	CR 05.02-A082 rev 1 Compact Cell Reselection	SMG2-WPB	7.2.6.6
2-99-d99	CR 03.64-A059 rev 1 EDGE compact cell reselection	SMG2-WPB	7.2.6.6
2-99-e01	CR 04.60-A445 rev 1 Clause 8 Re-segment bit Clarification	Ericsson	7.1.5.9
2-99-e02	CR 04.60-A439 rev 1 Handling of EGPRS PACKET CHANNEL REQUEST included in 04.60 clauses 1 – 8	Ericsson	7.1.5.9
2-99-e03	CR 04.18-A008 EGPRS support on 04.18, Immediate Assignment and PDCH assignment	Ericsson	7.1.5.9
2-99-e05	CR 24.008-Axxx rev 1 MS Radio Access Capability IE due to EDGE	Nokia	7.1.5.9
2-99-e06	CR 08.58-A037 rev 1 Fast power control due to ECSD	Nokia	7.1.5.9
2-99-e07	CR 04.18-A003 rev 1 Non-GSM Broadcast Information	Ericsson	7.1.5.9
2-99-e08	CR 04.60-A426 rev 1 Non-GSM Broadcast Information	Ericsson	7.1.5.9
2-99-e09	CR 04.03-A006 rev 1 Introduction of compact logical channels	WPA	7.1.5.9
2-99-e17	CR 04.60-A441 rev 1 Compact Control channel	WPA	7.1.5.9
2-99-e18	CR 04.60-A442 rev 1 EDGE compact cell reselection	WPA	7.1.5.9
2-99-e19	CR 04.18-A006 rev 1 Compact Cell Reselection	WPA	7.1.5.9
2-99-e20	CR 04.60-A495 rev 1 Compact and support for EGPRS in ANSI-136 networks	WPA	7.1.5.9
2-99-e26	CR05.05-A126 PCS 1900 MHz intermodulation requirements	Ericsson, Nokia	7.2.6.6
2-99-e28	Draft of GSM/EDGE RAN Radio Requirements	GSM/EDGE RAN drafting group	7.2.6.6, 8
2-99-e30	CR 05.02-A085 rev 2 EDGE Compact Change Request	SMG2-WPB	7.2.6.6

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2-99-e43	Proposed liaison statement concerning GSM/EDGE RAN	GSM/EDGE RAN drafting group	8.2.2
2-99-e45	GSM 10.59 ver 1.17	Rapporteur	7.2.6.6
2-99-e48	Proposed Liaison Statement on measurement order parameters sent to the MS for GSM to MC handovers	SMG2-WPB	8.2.2
2-99-e55	Slides from the EDGE compact status report	Rapporteur	6.2
2-99-e59	Proposed Liaison Statement on measurement order parameters sent to the MS for GSM to MC handovers	SMG2	8.2.2
2-99-e60	Liaison statement concerning GSM/EDGE RAN	SMG2	8.2.2
2-99-e61	Draft of GSM/EDGE RAN Radio Requirements	SMG2	7.2.6.6

* SMG7 EDGE WS#4, 12-14 Oct 1999, Edinburgh

Filename	Title	Source	Proposed for
7e99-013	Impact of test cases	SMG7 EDGE	
7e99-022	Transmitter	Motorola	
7e99-023	Liaison statement on Transmitter testing	SMG7 EDGE ad-hoc	To SMG2 EDGE
7e99-024	Summary of EDGE test cases	Arnold Rönbeck	
7e99-025	EVM Measurement Methodology	HP	
7e99-026	ECSD/EGPRS Power Control Discussion Document	HP	
7e99-027	ECSD/EGPRS Power Control CR to GSM 11.10	HP	
7e99-028	GSM 11.10 Annex 5 CR	HP	
7e99-029	Response to Input document from SMG7 EDGE regarding MS Transmitter Tests.	SMG2 EDGE	
7e99-030	Report from SMG7 EDGE ad-hoc meeting #4		
7e99-031	Receiver tests	Ericsson	
7e99-032	Discussion paper for COMPACT related issues for SMG7	Nokia	
7e99-033	Timing advance and absolute delay	Nokia	
7e99-034	Answer to "Discussion paper for COMPACT related issues for SMG7" TDoc 032	SMG7 EDGE	

* SMG2 EDGE WS #11, 18nd – 22nd Oct 1999, Austin

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2e99-434	Minutes of meeting from the EDGE workshop in Austin, US	Secretary	2
2e99-435	Minutes of meeting from the EDGE workshop in Paris, France	Secretary	3
2e99-436	10.59, V1.18.0	Rapporteur	5.2
2e99-437	LS concerning GSM/EDGE RAN	SMG2	6.5
2e99-438	Radio requriements for the GSM/EDGE RAN	SMG2	6.5
2e99-439	Dedicated Voice Service Requirements for RT-EGPRS	Lucent	6.5
2e99-440	RLC/MAC and physical layer design for AMR speech, best effort and real-time data services over RT-EGPRS	Lucent	6.5
2e99-441	CR to Specification: 04.18: Packet Downlink Assignment, Alignment of 04.18 with 04.60 for EGPRS	Ericsson	6.3
2e99-442	Concept Proposal for EGPRS Phase 2	Ericsson	6.5
2e99-443	Performance Evaluation of EGPRS Phase 2 Bearers	Ericsson	6.5
2e99-444	EGPRS Link Quality Control Measurements and Filtering	Ericsson	6.3
2e99-445	Incremental Redundancy Performance Requirements	Ericsson	6.3
2e99-446	A New Extended Training Sequence for COMPACT Synchronization Burst and its importances	UWCC	6.4
2e99-447	Requirements Document Input	AWS	6.5
2e99-448	System Concept Document Input	AWS	6.5
2e99-449	Voice Bearer Link Design and Performance	AWS	6.5
2e99-450	System Capacity of Circuit-Switched and Packet-Switched Operation	AWS	6.5
2e99-451	IP Architecture and (E)GPRS in EDGE Phase 2	AWS	6.5
2e99-452	Withdrawn	AWS	6.5
2e99-453	The impact of narrow band filter on EVM values	Allgon	6.1
2e99-454	Introduction to CRs for Non-GSM Broadcast Information	UWCC	6.2
2e99-455	CR for Non-GSM Broadcast Information	UWCC	6.2
2e99-456	CR for Non-GSM Broadcast Information	UWCC	6.2
2e99-457	CR for Network Suspend and Resume for Non-GSM Mobile Stations	UWCC	6.2
2e99-458	Measurement Filter for EDGE	HP	6.1
2e99-459	A New Measurement Filter for EDGE	HP	6.1
2e99-460	Introduction to CRs for COMPACT Cell Selection Part 1	UWCC	6.2
2e99-461	CR GSM 02.11: COMPACT Cell Selection Part 1	UWCC	6.2
2e99-462	CR GSM 03.22: COMPACT Cell Selection Part 1	UWCC	6.2
2e99-463	CR GSM 05.08: COMPACT Cell Selection Part 1	UWCC	6.2
2e99-464	CR GSM 11.11: COMPACT Cell Selection Part 1	UWCC	6.2
2e99-465	CR GSM 24.008: COMPACT Cell Selection Part 1	UWCC	6.2
2e99-466	CR 05.01 for COMPACT: CR for the support of frequency	UWCC	6.2

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	hopping in EGPRS Compact		
2e99-467	CR 05.02 for COMPACT: CR for the support of frequency hopping in EGPRS Compact (2)	UWCC	6.2
2e99-468	CR 05.10 for COMPACT: CR for a more flexible synchronization scheme of multi-frames in EGPRS Compact	UWCC	6.2
2e99-469	ECSD Receiver Performance – proposal for ideal receiver values, outstanding cases	Nokia, Ericsson	6.1
2e99-470	ECSD Ideal Receiver Performance	Ericsson	6.1
2e99-471	EGPRS performance requirements with receiver impairements	Motorola	6.1
2e99-472	Operational scenarios for multiplexing speech and other real-time services with best-effort data in RT-EGPRS	Lucent	6.5
2e99-473	EDGE EGPRS receiver performance including impairments	Lucent	6.1
2e99-474	ERAN Reference Architecture for RT-EGPRS	Lucent	6.5
2e99-475	Handover of Real-Time Services in RT-EGPRS	Lucent	6.5
2e99-476	Enhanced Incremental Redundancy modes for EGPRS	Nokia	6.3
2e99-477	CR 03.64: Correction for EGPRS	Nokia	6.3
2e99-478	CR 05.08: Link Quality Control measurements for EGPRS	Nokia	6.3
2e99-479	CR 04.60: Introduction of Incremental Redundancy between different coding schemes in EGPRS	Nokia	6.3
2e99-480	CR 03.64: Introduction of Incremental Redundancy between different coding schemes in EGPRS	Nokia	6.3
2e99-481	ECSD receiver performance without impairments	Nokia	6.1
2e99-482	EGPRS receiver performance with impairments	Ericsson	6.1
2e99-483	ECSD receiver performance with impairments	Ericsson	6.1
2e99-484	CR: Transmitter/receiver performance	Ericsson	6.1
2e99-485	EGPRS receiver performance with impairments	Nokia	6.1
2e99-486	CR on 04.60: MCS for Last RLC Block in TBF for EGPRS	Lucent	6.3
2e99-487	CR on 04.60: EGPRS Link Quality Measurements	Lucent	6.3
2e99-488	Withdrawn	UWCC	6.2
2e99-489	EMC aspects of 8PSK modulation	Lucent	6.1
2e99-490	Update of timer T3198 for EGPRS	Ericsson	6.3
2e99-491	withdrawn		
2e99-492	CR to 05.08-A147r5 version 8.0.0 FPC for ECSD	Nokia	6.4
2e99-493	CR to 04.60 version 8.0.0 MS RAC impacts on One Phase and Two Phase Access procedures	Nokia	6.3
2e99-494	Intra-GSM/EDGE RAN handover	Nokia	6.5
2e99-495	Aspects on spectral efficiency and voice quality in EGPRS networks	Nokia	6.5
2e99-496	On performance of GSM/EDGE RAN voice bearers	Nokia	6.5
2e99-497	Introduction to CRs for COMPACT Cell Selection Part 2	UWCC	6.2
2e99-498	CR GSM 02.11: COMPACT Cell Selection Part 2	UWCC	6.2
2e99-499	CR GSM 03.22: COMPACT Cell Selection Part 2	UWCC	6.2
2e99-500	CR GSM 11.11: COMPACT Cell Selection Part 2	UWCC	6.2
2e99-501	EGPRS LQC measurements Filtering	Nokia	6.3
2e99-502	Support of legacy GPRS terminals in EGPRS Ph 2	Lucent	6.5
2e99-503	Withdrawn	Lucent	6.5
2e99-504	Introduction to CR for Packet Suspend Procedure	UWCC	6.2
2e99-505	CR for GSM 04.60 – Packet suspend procedure for mobile stations capable of non-GSM circuit operation	UWCC	6.2
2e99-506	CR for GSM 04.18 – Support for packet suspend procedure for mobile stations capable of non-GSM circuit operation.	UWCC	6.2
2e99-507	Discussion paper on EDGE Receiver Performance in 05.05	Ericsson	6.1
2e99-508	Proposed Mechanism for Implementing Downlink Co-Channel Interference Measurements for COMPACT and EGPRS	UWCC	6.2
2e99-509	Proposed 850 MHz and 1900 MHz Mixed-Mode CR for GSM 11.21 Ver. 7.1.0	UWCC	6.1
2e99-510	EGPRS MAC Procedures to Support Real-Time Services	Nortel Networks	6.5
2e99-511	CR 0460A596: EGPRS Multi-slot Channel Coding Command	Lucent	6.3
2e99-512	CR: EDGE blocking requirements for micro and pico-BTS	Ericsson	6.1
2e99-513	CR: Spuious emission in RX and TX band	Ericsson	6.1
2e99-514	CR: EVM requirements for EDGE BTS transmitter	Ericsson	6.1
2e99-515	EDGE practical BTS implementation and spectrum due to switching requirements for GSM	Siemens	6.1
2e99-516	EGPRS receiver performance with impairments	Nortel	6.1
2e99-517	Issues with Respect to new Extended Training Sequence for CSCH	Ericsson	6.2
2e99-518	EDGE WS introduction slides	Rapporteur	2

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2e99-519	EDGE WS status slides	Rapporteur	5
2e99-520	Updated from 509. 850MHz and 1900MHz MXM changes to 11.21	UWCC	6.1
2e99-521	Updated from 512. CR 05.05. EDGE Blocking requirement for micro and pico BTS	Ericsson	6.1
2e99-522	Updated from 515. EDGE practical BTS implementation and spectrum due to switching requirements fro GSM	Siemens, Nokia, Ericsson	6.1
2e99-523	Lower rate channels for EGPRS Ph2	Ericsson	6.5
2e99-524	Revised from 466: CR 05.01	SMG2EDGE	
2e99-525	Revised from 467: CR 05.02	SMG2EDGE	
2e99-526	Revised from 468: CR 05.10	Withdrawn	
2e99-527	Revised from 455: CR 04.60	SMG2EDGE	
2e99-528	Revised from 456: CR04.18	SMG2EDGE	
2e99-529	Revised from 504	SMG2EDGE	
2e99-530	Revised from 505: CR 04.60	SMG2EDGE	
2e99-531	Revised from 506: CR 04.18	SMG2EDGE	
2e99-532	Revised from 461: CR 02.11	SMG2EDGE	
2e99-533	Revised from 462: CR 03.22	SMG2EDGE	
2e99-534	Revised from 465: CR 24.008	SMG2EDGE	
2e99-535	Revised from 460	SMG2EDGE	
2e99-536	Revised from 463: CR 05.08	SMG2EDGE	
2e99-537	Revised from 497		
2e99-538	Revised from 498: CR 02.11	SMG2EDGE	
2e99-539	Revised from 499: CR 03.22	SMG2EDGE	
2e99-540	Revised from 477: CR 03.64	SMG2EDGE	
2e99-541	Revised from 490: CR 04.60	SMG2EDGE	
2e99-542	Revised from 493: CR 04.60	SMG2EDGE	
2e99-543	Revised from 480: CR 03.64	SMG2EDGE	
2e99-544	GSM/EDGE RAN Architectural Requirements	Nortel	
2e99-545	Notes from Ad-Hoc on a new TSC for Compact	CSCH subgroup	
2e99-546	Report from L1 subgroup discussion	L1 subgroup	
2e99-547	Report from EGPRS subgroup discussion	EGPRS subgroup	
2e99-548	Initial set of identified work areas for the GSM/EDGE RAN	Phase 2 subgroup	
2e99-549	GERAN concept	Nortel	
2e99-550	Revised from 525: CR 05.02	SMG2EDGE	
2e99-551	Revised from 546	SMG2EDGE	
2e99-552	Revised from 545	SMG2EDGE	
2e99-553	User plane adaptation for GSM/EDGE RAN	Nokia	
2e99-554	Concept document for GSM/EDGE RAN	SMG2EDGE	
2e99-555	Revised from 554	SMG2EDGE	

* SMG3 WPA Oct 99, 25-27 Oct 1999, Kobe

Tdoc	Title	Source	Agenda Item
N1-99C37	Introduction to CRs for COMPACT cell selection 1	SMG2 EDGE #11	
N1-99C43	Introduction to CRs for COMPACT cell selection 2	SMG2 EDGE #11	

* SMG2 #33, 22-26 Nov 1999, Sofia Antipolis

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2-99-f22	Introduction to COMPACT RF Power Control and Downlink Co-Channel Interference Measurements CR for GSM 05.08 Ver. 8.1.0	UWCC	7.2.6.6
2-99-f23	CR 05.08-A203 COMPACT RF Power Control and Downlink Co-Channel Interference Measurements	UWCC	7.2.6.6
2-99-f24	Introduction to COMPACT Logical Channel CR for GSM 05.02 Ver. 8.1.0	UWCC	7.2.6.6
2-99-f25	CR 05.02-A107 COMPACT Logical Channel	UWCC	7.2.6.6
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2g00-014	Gb+ or Iu-PS?	Vodafone	4.2
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2g00-019	Some requirements for the GERAN to CN packet switched domain interface	AT&T, T-Mobil, Vodafone Airtouch, Mannesmann Mobilfunk, France Telecom, E-plus	4.2
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2e00-052	FACCH design for Half Rate Channels in RT-EGPRS	Lucent	6.2.3
2e00-053	Fixed Allocation vs Dynamic Allocation for Non-Real Time Data Services in EGPRS Phase II: Performance Study	Lucent	6.2.2
2e00-054	Excess Speech Delay for Statistical Multiplexing	Lucent	6.3.1
2e00-055	EDGE Radio Related Performance Enhancing Technologies	Lucent	6.3.1
2e00-056	Burst FACCH design with 8PSK modulation in RT-EGPRS	Lucent	6.2.3
2e00-057	Withdrawn	Lucent	6.2.1
2e00-058	Fast Access MS Identifier in RT-EGPRS	Lucent	6.2.2
2e00-059	Aspects on Unidirectional Radio Channels and Odd/Even Interleaving in RT-EGPRS	Lucent	6.2.2
2e00-060	Further results on the performance of burst-based access and assignment	Lucent	6.3.1
2e00-061	GERAN R2000 Concept Proposal	Lucent	6.2.1
2e00-062	GERAN R2001 Concept Proposal	Lucent	6.3.1
2e00-063	IP/UDP/RTP Header Stripping for Optimised Speech Radio Bearer	Lucent	6.2.2
2e00-064	Withdrawn	Ericsson	6.1.2
2e00-065	Proposed additions to the GERAN concept paper	Ericsson	6.2.1
2e00-066	CR: Corrections to 05.05	Ericsson	6.1.1
2e00-067	Discussion note: On transmit diversity for EDGE	AT&T, Nokia	6.3.1
2e00-068	Statistical Multiplexing for Mobile Stations with Half Duplex Constraints	Lucent	6.3.1
2e00-069	CR 04.18 - Addition of CSCH description	Motorola	6.1.2
2e00-070	05.05 BTS requirements for GSM 850	Nokia	6.1.1
2e00-071	EDGE/GERAN status	Rappoteur	5
2e00-072	Requirements and agreements for the GERAN to CN packet switched domain interface	SMG2/SMG12/S2 adhoc on GERAN	4
2e00-073	Measurements results for EDGE repeaters	Micom	6.1.1
2e00-074	MS NER performance for 8PSK	Nokia	6.1.1
2e00-075	GERAN radio interface	Nortel	6.2.1
2e00-076	Joined CR 05.05: NER, RecPerf, Corrections	L1 drafting group	7.2
2e00-077	Revised version 027	EDGE WS #13	7.2
2e00-078	Revised version 028	EDGE WS #13	7.2
2e00-079	Revised	EDGE WS #13	7.2
2e00-080	Revised	EDGE WS #13	7.2
2e00-081	Revised 25	EDGE WS #13	7.2
2e00-082	Revised	EDGE WS #13	7.2
2e00-083	Revised from 2e00-041	SMG2EDGE	
2e00-084	Revised from 2e00-044	SMG2EDGE	
2e00-085	LS from SMG7EDGE: 7e00-043	SMG7EDGE	
2e00-086	Revised from 2e00-046	SMG2EDGE	
2e00-087	Revised from 2e00-048	SMG2EDGE	
2e00-088	Answer to LS from SMG7EDGE	SMG2EDGE	
2e00-089	GERAN reference architecture	AT&T	
2e00-090	GERAN concept document	AT&T	
2e00-091	Completion of 05.05 for EDGE	L1 subgroup	
2e00-092	GERAN Simulation Parameters	Sim subgroup	
2e00-093	GERAN Concept Document	Subgroup	
2e00-094	EDGE/GERAN Status	Rapporteur	

2e00-095	Revised from 2e00-076	L1 subgroup	
2e00-096	Revised from 2e00-091	SMG2EDGE	
2e00-097	Answer to LS from SMG7EDGE on PC	SMG2EDGE	
2e00-098	Revised from 2e00-093	SMG2EDGE	
2e00-099	Revised from 2e00-043	SMG2EDGE	

Annex 2:
EDGE service requirements

The following table summarises all the key requirements identified for EDGE concept. Unless otherwise specified EGPRS refers to both EGPRS in its original form (EGPRS Classic), and EGPRS Compact, which allows deployment of EGPRS in less than 1 MHz of initial spectrum.

Key Requirements	Description
	BEARER CAPABILITIES
Peak Rates	This clause assumes that the same types of services as in current GSM should be provided in EDGE. EDGE should support a range of peak bit rates in all typical GSM radio environments and an indoor environment. The peak rates should at least be EGPRS: 384 kbps (48 kbps/timeslot) (3km/h – 100km/h)** 144 kbps (18 kbps/timeslot) (250 km/h)** ECSD T: 32 kbps/timeslot *) (3km/h - 100km/h)** 32 kbps/timeslot *) (250 km/h)** ECSD NT: 28.8 kbps/timeslot *) *)The data rates are not defined yet by SMG2/4 and giving a rough indication **) See GSM05.05 for channel conditions. For circuit switched data the limitation of 64 kbps is on the network side (A-interface) and not on the radio interface. In EDGE the number of required timeslots for these data rates should be minimized. (Ref. 02.02). Same delay requirements as in GSM of today applies for EDGE. The air interface should be optimised to provide as much coverage/availability providing the peak rates above, i.e. maximizing the mean throughput. SMG2 should define appropriate evaluation criteria, e.g. mean throughput.
Flexibility	Negotiation of bearer service attributes as provided in GSM. Provision of General Bearer Services and provision of GPRS services apply for EDGE. The same parameter negotiation as for HSCSD applies. Adaptation of link to quality, traffic and network load, and radio conditions (in order to optimise the link in different environments and to provide a transparent service with constant bit rate based on negotiated parameters). Mechanism to report data rate change to application as done today. Modulation is set per time slot depending on BTS capabilities. Seamless transition ECSD-> CSD -> ECSD and EGPRS classic ->GPRS -> EGPRS classic in case of variable EDGE deployment. Seamless transition from EGPRS Classic->EGPRS Compact->EGPRS Classic is possible when the Classic and Compact systems are time-synchronised.

Applications	EDGE bearer capabilities should provide basis for real-time multi-media services, e.g. video applications.
	Typical GPRS applications should be provided with higher bitrates.
Handover/Cell-reselection	Re-selection methods should allow the operator to optimise the service availability for EDGE users.
	EDGE should not prevent seamless HO between compatible access networks.
	Efficient handover between EDGE and GSM cells should be possible.
Roaming	EDGE should not prevent roaming with 3rd generation system, e.g. UMTS, IS136HS.
	OPERATIONAL REQUIREMENTS
Compatibility with Services Provided by Present Core Transport Networks	Network interworking should be possible to: PSTN ISDN PSPDN CSPDN X.25 networks IP networks other GPRS PLMN´s, directly or via a transit network Service interworking should be possible to: Supplementary Services that are applicable to the General Bearer Service. SMS MO/PP SMS MT/PP
Radio Access Network Planning	EDGE should not require a modification of actual frequency/coverage planning defined for GSM air interface when introduced. Frequency/coverage re-planning may be used to maximise the throughput in the system.
Private and Residential Operators	The radio access scheme should be suitable for low cost applications where range, mobility and user speed may be limited.
	SPECTRUM USAGE
Coverage / Capacity	The system should be flexible to support a variety of initial coverage/capacity configurations (e.g. cell by cell deployment) and facilitate an evolution path to improve coverage/capacity evolution.
	EGPRS Compact shall be possible to deploy in less than 1 MHz initial spectrum.
Interference	*The performance of a GSM network shall not be worsened if a GSM carrier is used for transmission of EDGE signal in a given frequency reuse pattern and vice versa. A GSM system with EDGE should be capable to co-exist with a GSM system without EDGE deployment within the same or neighbouring band as well on neighbouring time slots.*
Frequency	EDGE can be deployed on 850, 900, 1800 and 1900 MHz bands.
	COMPLEXITY/COST
Mobile Terminal Viability	Handportable and PCMCIA card sized EDGE terminals should be optimized in terms of size, weight, operating time, range, effective radiated power and cost/performance ratio.

Network Complexity and Cost	The development and equipment cost should be kept at a reasonable level.
Mobile Terminal Types	It should be possible to provide a variety of mobile station types of varying complexity, cost and capabilities in order to satisfy the needs of different types of users.
	NETWORK MANAGEMENT
Network Management	Performance data relating to EDGE codings/modulations should be provided in order to facilitate optimization of the network performance.
	OTHER
Charging	*In addition to current information, information of the modulation used should be provided (explicitly or implicitly) for the charging record.*
Security	EDGE should be able to accommodate at least the same level of security in authentication and ciphering as in current GSM.

Annex 3:
EDGE radio requirements

The following radio requirements have been identified. Unless otherwise specified EGPRS refers to both EGPRS in its original form (EGPRS Classic), and to EGPRS Compact, which allows deployment of EDGE in less than 1 MHz of initial spectrum.

A3.1   Bearer capabilities

A3.1.1 Bearer capabilities

The EDGE radio interface shall be designed to work in all typical GSM radio environments like rural area (RA), typical urban (TU) and an indoor environment. EDGE shall also work in a Hilly Terrain (HT) environment however the main focus is on channels with lower delay spread than HT, as specified in GSM05.05.

The peak rates mentioned below may not be available in the full cell area. The radio interface should however be optimised to provide as much coverage/availability as possible.

In addition to peak data rates, the average throughput and the area where 384 kbps can be achieved are important measures and should be optimized.

A3.1.1.1 Enhanced GPRS

EGPRS shall provide a range of bearer capabilities that depend upon the environment and user's speed. The peak rate shall at least be:

EGPRS			
	Indoor/Low range outdoor	**Urban/Suburban outdoor**	**Rural outdoor**
EGPRS	384 kbps (48 kbps/timeslot)	384 kbps (48 kbps/timeslot)	144 kbps (18kbps/timeslot)
Speed	up to 10 km/h	up to 100 km/h	up to 250 km/h
Propagation conditions	Indoor, TU3	TU50 HT100	850/900MHz: RA250 1800/1900MHz: RA130 HT100

A3.1.1.2 Enhanced CSD

ECSD shall provide a range of bearer capabilities (per time slot) that depend upon the environment and user's speed. The peak rates should at least be:

ECSD/T			
	Indoor/Low range outdoor	**Urban/Suburban outdoor**	**Rural outdoor**
ECSD/T	32 kbps/timeslot *)	32 kbps/timeslot *)	-
Speed	up to 10 km/h	up to 100 km/h	-
Propagation conditions	Indoor, TU3	TU50, HT100	-

ECSD/NT			
	Indoor/Low range outdoor	**Urban/Suburban outdoor**	**Rural outdoor**
ECSD/T	28.8 kbps/timeslot *)	28.8 kbps/timeslot *)	-
Speed	up to 10 km/h	up to 100 km/h	-
Propagation conditions	Indoor, TU3	TU50, HT100	-

*)The data rates are not defined yet by SMG2/4 and giving a rough indication

The maximum transfer delay including channel coding and decoding for ECSD/T shall be the same as for CSD/T.

Due to the current limitations of the core network, transmission of circuit switched data shall be limited to 64 kbps per user.

A3.1.2 Bearer service attributes

The same bearer service attributes used for GPRS and CSD should be used for EGPRS and ECSD. Some new bearer service parameters relevant to the radio interface may be needed. For EGPRS the same QoS classes should apply.

A3.1.3 Hand over/cell re-selection

The same hand over/cell re-selection mechanisms as for CSD/GPRS apply. Re-selection methods should allow the operator to optimise the service availability for EDGE users.

Seamless transition ECSD-> CSD -> ECSD and EGPRS classic->GPRS -> EGPRS classic.

Seamless transition from EGPRS Classic->EGPRS Compact->EGPRS Classic is possible when the Classic and Compact systems are time-synchronised.

EGPRS Compact mobile stations shall be able to re-select to a neighboring synchronized EGPRS Classic cell, and vice-versa. Re-selection between EGPRS Classic and EGPRS Compact at different frequency bands is desirable.

EDGE shall allow multi-band operation, i.e 850/900/1800/1900 MHz including E- and R-band.

Hand over should be supported for GSM850/900/1800/1900 and between GSM850/900/1800/1900.

A3.1.4 Mobile Stations

EGPRS Compact mobile stations shall support EGPRS Classic.

UWCC operators require that EGPRS-Capable handsets shall support operation at both 850 and 1900 MHz, and shall support both EGPRS Classic and EGPRS Compact.

A3.1.5 Link adaptation

Link adaptation should be provided to adapt the modulation and coding scheme to the radio channel conditions. This includes a reconfiguration of time slots (i.e. transparent 28.8kbps -> 2x14.4kbps) as well as fall-back to GMSK.

Measurements should be provided for efficient link adaptation for services and applications provided by EDGE.

A3.2   Operational requirements

A3.2.1 Compatibility with services provided by present core networks

EDGE will enhance the GPRS and CSD service by providing higher data rates. That means, that EDGE will rely on underlying GSM functionality.

A3.2.2 Operating environments

The operational scenario for EDGE includes international operation across various EDGE radio operating environments (850/900/1800/1900 MHz bands). Further, EDGE will support a variety of services with a range of bit rates.

A3.2.3 Radio Access network planning

EDGE should not require a modification of actual frequency/coverage planning defined for GSM air interface when introduced. Frequency/coverage re-planning may be used to maximise the throughput in the system.

An EDGE network shall support at least 4/12, 3/9 and 1/3 frequency reuse patterns. EGPRS Compact shall support at least 1/3 frequency re-use.

A3.2.4 Operators

All GSM900/1800/1900 operators should be able to deploy EDGE without licensing problems.

A3.3   Efficient spectrum usage

A3.3.1 Spectral Efficiency

The spectral efficiency of EDGE should be significantly higher than in GSM.

The radio interface should be designed to maximise spectral efficiency.

EGPRS Compact shall be possible to implement in less than 1 MHz initial spectrum.

A3.3.2 Spectrum utilisation

It should be possible to use EDGE in all GSM bands.

It should be possible to mix EDGE and non EDGE timeslots on the same carrier.

If simultaneous EDGE and non EDGE operation in the same time slot is required or not is for further investigation.

If EDGE is used on the BCCH carrier, it should not have any impact on BCCH power measurements.

A3.3.3 Coverage/capacity

The peak service rates may be provided only in a limited coverage area. Link adaptation shall provide a mechanism to have a smooth degradation of the service rates for the outer cell areas.

EDGE should be designed to maximise the area where high data rates can be achieved.

SMG2 should define appropriate evaluation criteria. The throughput should be at least 384 kbps over 25% of the cell in both coverage and interference limited systems, with the simulation assumptions as described in the EDGE Feasibility Study".

EDGE should be flexible to support a variety of initial coverage/capacity configurations, e.g. cell by cell deployment, and facilitate coverage/capacity evolution.

EGPRS Compact shall support more than one carrier in a given sector.

EGPRS Compact shall be able to grow non-uniformly, such that sectors may have a different number of EGPRS Compact carriers.

A3.3.4 Evolution requirements

With EDGE several 3rd generation services can be provided in GSM. The technical parameters for EDGE should allow an evolution for coverage and capacity, as well as provisioning of future 3rd generation services.

A3.3.4.1 Coverage evolution

The radio coverage for the EDGE may be:

- contiguous coverage;

- island coverage;

- spot coverage.

EDGE should be sufficiently flexible to support a variety of initial coverage configurations and facilitate coverage evolution. Coverage can be increased by deploying cell planning parameters optimised for EDGE usage and/or techniques like e.g. adaptive antennas, advanced power control, efficient resource allocation etc.

A3.3.4.2 Capacity evolution

EDGE should facilitate the implementation and use of appropriate capacity improvement techniques, if applicable, in the various radio operating environments.

EDGE should not prevent capacity improvements, e.g. adaptive antennas, advanced power control, efficient resource allocation etc. It is desirable that the EDGE does not depend on the implementation of these techniques, but that they are capacity improvement options. It is desirable that they do not significantly add complexity or cost to the infrastructure or MSs.

A3.4 Complexity / Cost

A3.4.1 Mobile complexity and cost

Hand portable and PCMCIA card sized EDGE terminals should be optimised in terms of size, weight, operating time, range, effective radiated power and cost/performance ratio.

A3.4.2 Network complexity and cost

The cost/performance ratio of development and equipment should be kept at a reasonable level.

A3.4.3 Mobile Station / Base Station types

The EDGE standard should support multislot operation for ECSD and EGPRS. It should be possible to provide a variety of Mobile Station as well as Base Station types of varying complexity, cost and capabilities in order to satisfy the needs of different types of users. The number of mobile classes should though be minimised. (The number and classes are for further study).

A3.5 Requirements from bodies outside SMG

A3.5.1 Electromagnetic compatibility

The modulation characteristics have to be such that the degree of interference caused to other equipment is not higher than in today's systems.

A3.5.2 RF Radiation effects

EDGE shall be operative at RF emission power levels which are in line with the recommendations related to electromagnetic radiation.

A3.5.3 Security

The EDGE radio interface should be able to accommodate at least the same level of security as the GSM radio interface does.

A3.6 Co-existence with other systems

A GSM system with EDGE should be capable to co-exist with a GSM system without EDGE deployment within the same or neighbouring band as well on neighbouring time slots. Furthermore should the performance of GSM channels without EDGE not be worsened by the fact that the neighbouring channel is a GSM channel with EDGE and vice versa.

A GSM or ANSI-136 system with EGPRS Compact should be able to co-exist with a GSM or ANSI-136 system without EGPRS Compact deployed within the same or neighbouring band.

A3.7 Further Work Areas

A3.7.1 Services coordination

Possibility to have same or similar services in EDGE as in UMTS needs to be investigated. Investigation of hand-over between GSM and UMTS is necessary.

A3.7.3 Measurements in existing GSM

It should be studied if there is a need to modify existing measurements for EDGE or other work items.

Annex 4:
History

Document history	
16th February 1998	First draft
20th February 1998	Update after Joint SMG1,2,3 & 4 EDGE workshop in Helsinki
27th April 1998	Update after SMG1 and SMG2 WPB#4
25th May 1998	Update after SMG4 and EDGE SMG2 working session
27th May 1998	Update after smg2 #26 decision, V1.0.0
3rd July 1998	Update after SMG4 workshop , V1.1.0
7th August 1998	Update after SMG1 plenary, V1.2.0
28th August 1998	Update after SMG2 EDGE workshop and SMG3WPA, V1.3.0, removal of open questions. expanded concept clause
12th of October 1998	Update after SMG2WPA and SMG2 WPB, V1.4.0
2nd of November 1998	Update after EDGE WS, V1.5.0
2nd of December 1998	Update for EDGE WS #6, V1.6.0
14th December 1998	Update for SMG 7, V1.7.0
7th of January 1999	Update for SMG2 WPB, V1.8.0
25th of January 1999	Update for SMG2 plenary, V1.9.0
4th February 1999	Update for SMG plenary, V1.10.0
2nd March 1999	Update for SMG2 EDGE WS #7, V1.11.0
12th March 1999	Update for SMG2 #30, V1.12.0
31st May 1999	Updated for SMG2 #31, V1.13.0
18th June 1999	Updated for SMG EDGE WS #9, V1.14.0
24th August 1999	Updated for SMG EDGE WS #10, V1.15.0
19th September 1999	CR list for EDGE compact included, updated for SMG2 #32, V1.16.0
22th September 1999	COMPACT requirements included, V1.17.0
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10th January 2000	Updated with results from workshop and SMG #30bis, V1.20.0
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Rapporteur EDGE BSS: Frank Mueller, Ericsson Email: Frank.Muller@era.ericsson.se Tel: +46-8-7570287 Fax:+46-8-7575550 Rapporteur EDGE NSS: Tommi Kokkola, Nokia Email: tommi.kokkola@ntc.nokia.com Tel: +358-9-511 38358 Fax:+358-40-504 0734 Rapporteur GPRS 136 HS EDGE: Tommi Ljunggren, AT&T Email: tommy.ljunggren@northstream.se Tel: +46 8 754 0001 Fax: +46 8 754 0002	

Annex A:
Change history

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<tr><th>Date</th><th>TSG #</th><th>TSG Doc.</th><th>CR</th><th>Rev</th><th>Subject/Comment</th><th>Old</th><th>New</th></tr>
<tr><td>2001-04</td><td>4</td><td></td><td></td><td></td><td>Version for Release 4</td><td></td><td>4.0.0</td></tr>
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History

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