

PT SMG

Permanent

Document

GSM 10.59

Version: 8.0.0.

Release 1999

Source: PT SMG

Reference: PT SMG PD/GSM

Key words: Digital cellular telecommunications system, Global System for Mobile communications (GSM), Enhanced Data rates for GSM Evolution (EDGE)



**Digital cellular telecommunications system (Phase 2+);
Enhanced Data rates for GSM Evolution (EDGE)
Project scheduling and open issues for EDGE;
(GSM 10.59, Version 8.0.0)**

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Contents

| | |
|--|----|
| Foreword..... | 3 |
| Scope..... | 3 |
| General..... | 4 |
| Requirements | 4 |
| Functional description..... | 4 |
| Technical realisation and amendments | 6 |
| Work item status | 7 |
| Approvals Time Frame for EDGE | 10 |
| Backwards compatibility | 22 |
| Annex 1: EDGE related documents | 23 |
| Annex 2: EDGE service requirements | 66 |
| Annex 3: EDGE radio requirements | 70 |
| History | 75 |

Foreword

This Project Team Special Mobile Group (PT SMG) Permanent Document has been produced by PT SMG for the SMG Technical Committee of the European Telecommunications Standards Institute (ETSI).

This PT-PD describes the schedules of the Enhanced Data rate for GSM Evolution (EDGE) standardisation process, points out important milestones and open issues that are still under work. It also lists the necessary amendments to the GSM/DCS phase 2+ specifications for the technical realisation of the work item.

This PT-PD is an informative document resulting from ETSI TC-SMG studies, which are not appropriate for European Telecommunication Standard (ETS), Interim European Telecommunication Standard (I-ETS) or ETSI Technical Report (ETR) status.

Scope

The purpose of this document is to describe the schedules of the Enhanced Data rate for GSM Evolution (EDGE) standardisation process and to view its 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.

References

This ETS incorporates by dated and undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- [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"

Abbreviations

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

Support of specification work

This 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 this 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.

SMG-TR (GSM 10.59 Version 8.0.0):

- 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

For information concerning subscription or removal from the mailing list refer to:

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

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

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)

Functional description

EGPRS

The concept proposal for EGPRS has been discussed fairly detailed and has stabilized 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 sections below.

ECSD

The concept proposal for ECSD has been discussed fairly detailed and has stabilized 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 sections 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.

Technical realisation and amendments

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 than creating new ones.

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].

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.

Phase 2 EDGE

Due to the substantial 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.

Work item status

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

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.

SMG-TR (GSM 10.59 Version 8.0.0):

| | |
|--------------|---|
| | 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

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

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

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

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

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.

SMG-TR (GSM 10.59 Version 8.0.0):

| | |
|--------------|---|
| 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 |

Approvals Time Frame for EDGE

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

Time frame for different STCs**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 | - | | |

SMG-TR (GSM 10.59 Version 8.0.0):

| | | | | | |
|---------------|--------------|---------------------|---|--|--|
| 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 assumption 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 |
| 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 | 05 series, 04 series | | |

| | | WPA/B/P | | | |
|--------------|--------------|------------------------|--|--|--|
| 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 | Fri 99-07-09 | SMG1 | Service requirements for EDGE phase II | | |
| Tue 99-08-03 | Tue 99-08-05 | SMG10 | CR on ciphering | | |
| Mon 99-07-19 | Fri 99-09-23 | SMG3 WPA | 04.08 asymmetry, FPC | | |
| Tue 99-08-24 | Tue 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 | Approval 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 | Tue 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 | | |

Phase 2

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

New Specifications

No new specifications are foreseen.

Change Requests (EGPRS, ECSD Phase 1)

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

| | | | |
|------------|---------------------------|----------|-----|
| CR0207A017 | Mobile station features | Ericsson | #29 |
| CR0234A008 | HSCSD stage 1 description | Nokia | #28 |
| CR0260A010 | GPRS stage 1 description | Ericsson | #28 |

| | | | | | |
|-----------|---------------------------------------|--|--------------------|------|-------|
| T2-99174 | CR0310A010 | GSM Public Land Mobile Network (PLMN) connection types | Nokia | | #29 |
| AP99-100 | CR0320A | A5/1 changes concerning ECSD | Nokia | | #30 |
| N1-99882 | CR0334A004R4 CR 03.34A007 | HSCSD Stage 2 description Modifications due to ECSD asymmetry | Nokia Nokia | | #29 |
| N1-99592 | CR0360A103 CR0360A116 | GPRS stage 2 description Tunneling of non GSM messages | Ericsson UWCC | | #29 |
| 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 |
| 2-99-1004 | CR0404A004 | Fast Power Control for ECSD | Nokia | | #30 |
| 2-99-993 | CR0404A005 | Introduction of PDTCH | Nokia | | #30 |
| N1-99178 | CR0408A371R2 | BCIE modification due to EDGE | Nokia | SMG3 | #29 |
| 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 |
| 2-99-1000 | CR0418A004 | Modification 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 of n 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 |
| T2-99175 | CR0421A014 | EDGE changes for transmission Formats | Nokia | | #29 |
| T2-99179 | CR0422A023 | EDGE changes for RLP | Nokia | | #29 |
| 2-99-848 | CR0460A366R1 | CR chapter 1-8 | Ericsson | | #29 |
| 2-99-659 | CR0460A367 | CR chapter 9 | Ericsson | | #29 |
| 2-99-850 | CR0460A368R1 | CR chapter 10 | Ericsson | | #29 |
| 2-99-851 | CR0460A369R2 | CR chapter 11-12 | Ericsson | | #29 |
| 2-99-1402 | CR0460A439R1 | CR chapter 1-8 | Ericsson | | #30 |
| 2-99-948 | CR0460A443 | CR chapter 9 | Ericsson | | #30 |
| 2-99-995 | CR0460A440 | CR chapter 10 | Ericsson | | #30 |
| 2-99-949 | CR0460A444 | CR chapter 11-12 | Ericsson | | #30 |
| 2-99-1401 | CR0460A445R1 | CR chapter 8 resegment bit clarification | Ericsson | | #30 |
| 2-99-1025 | CR0460A446 | CR chapter 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 |

SMG-TR (GSM 10.59 Version 8.0.0):

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|-----------|--------------|--|----------|-------|
| 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 |
| N1-99593 | CR0464A070 | Tunneling of non-GSM messages | UWCC | #29 |
| 2-99-800 | CR0501A018R1 | Changes for EDGE ECSD/EGPRS | Ericsson | #29 |
| 2-99-997 | CR0501A021 | Introduction of the PDTCH for EGPRS | Nokia | #30 |
| 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 |
| 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 |
| s298-453 | CR0504A001 | Modulation changes | Ericsson | #28 |
| 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 requirements for MXM 850 and MXM 1900 BTS | | #31 |
| 2-00-0057 | CR0505A137 | Clarification of Intra BTS Intermodulation Attenuation requirements 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 |

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|-----------|-----------------------|--|-------|-------|--|---------|
| 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 |
| 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 |
| 2-00-0062 | CR0510A050 | Modifications for 8-PSK | | | | ☞ #31 |
| 2-00-0458 | CR0550A011R1 | 8-PSK scenarios in GSM 05.50 | | | | ☞ #31 |
| T2-99177 | CR0701A037 | Support for circuit switched channels (ECSD) | Nokia | | | ☞ #29 |
| | CR0702A014 | Support for circuit switched channels (ECSD) | Nokia | | | ☞ #29 |
| N3-99063 | CR0703A??? | Introduction of EDGE(ECSD) | Nokia | | | ☞ #29 |
| | CR0808A143 | Modifications to channel type | Nokia | | | |
| 2-99-846 | CR0808A151R2 | Changes due to EDGE | Nokia | | | ☞ #29 |
| 2-99-1002 | CR0808A152R2 | ECSD asymmetry | Nokia | | | ☞ #30 |
| 2-99-1282 | CR0818A078 | MS Radio Access Capability | Nokia | | | ☞ #30 |
| T2-99176 | CR0820A006 | EDGE changes for transmission formats | Nokia | | | ☞ #29 |
| N3-99179 | CR0820A007 | Asymmetric Channel Coding | Nokia | | | ☞ #30 |
| | 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 |
| 2-99-1003 | CR0820A009 | EDGE changes for transmission formats | Nokia | | | ☞ #29 |
| T2-99178 | CR0907A051 | Support for circuit switched channels (ECSD) | Nokia | SMG4 | | ☞ #29 |
| N1-99594 | CR0918A028 | Gs interface changes to support tunneling of non-GSM messages | UWCC | SMG12 | | ☞ #29 |
| 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 |
| N1-99118 | CR23034A001R2 | Introduction of asymmetry | Nokia | | | ☞ #30 |

SMG-TR (GSM 10.59 Version 8.0.0):

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|-----------------|--------------------|---------------------------------|-----------------------|------------------------------|
| N1-99116 | CR24008A014R 1 | BCIE modification for asymmetry | Nokia | #30 |
| N1-99117 | CR24008A028R 1 | MS RAC modification | Nokia | #30 |
| T2-99566 | CR27007A | ECSD addition | Ericsson | #30 |
| T2-99567 | CR27007A | ECSD asymmetry | Ericsson | #30 |
| T2-99661 | CR27007A | ECSD AT command correction | Ericsson | #30 |
| 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.

| | | | | | |
|-----------|--------------|---|----------|------|-------|
| 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 |
| 2-99-1072 | CR0330A006 | Radio Network Planning Aspects | | | #30 |
| | CR0360A116r4 | Tunneling of messages | Motorola | | #29 |
| 2-99-1396 | CR0364A060R1 | Introduction of Compact logical channels | Nortel | | #30 |
| 2-99-1399 | CR0364A059R1 | COMPACT Cell Selection | Ericsson | | #30 |
| 2-99-1409 | CR0403A006R1 | Introduction of compact logical channels | | | #30 |
| 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 |
| 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 |
| | CR0464A070 | Tunneling of messages | Motorola | | #29 |
| 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 |
| 2-99-933 | CR0502A081 | Non-GSM Broadcast Information | Ericsson | | #30 |

SMG-TR (GSM 10.59 Version 8.0.0):

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|-----------|--------------|--|---------------------|--|
| 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 |
| 2-99-1395 | CR0503A027R1 | COMPACT introduction | Nortel | #30 |
| 2-99-1392 | CR0505A027R1 | Frequency Bands and Channel Arrangement for 850 MHz | Nortel | #30 |
| 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 |
| 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 |
| 2-99-A09 | CR0550A008 | 850 and 1900 Mhz Mixed Mode | Nortel | #30 |
| | CR0918A028 | Tunneling of messages | Motorola | #29 |
| | CR23040A??? | Delivery of Short Message via Gd Interface | Lucent | #30 |
| | Approved | Set on hold | #29 Send to SMG #29 | CR000A000 CR has been cancelled |

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/SMG12 | SMG #28 | Shkumbin Hamiti (Nokia) | |
| 03.60/23.0060 | "General Packet Radio Service; Service Description; Stage 2" | SMG2/SMG12 | SMG #28 | Krister Sällberg (Ericsson) | |
| 03.64 | "General Packet Radio Service; Overall Description of the GPRS Radio Interface; Stage 2" | SMG2/SMG12 | SMG #28 | Eero Nikula (Nokia) | |
| CHANGE | | | | | |

| REQUESTS | | | | | |
|-----------------|---|------------|---------|-------------------------------|---|
| 01.04 | Abbreviations and acronyms | ? | SMG #29 | | EDGE abbreviations |
| 01.60 | "General Packet Radio Service (GPRS); Terms and Definition" | ? | SMG #29 | | |
| 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 Hamati (Nokia) | New channel codings, new data rates in bearer capability? |
| 24.008 MM | Mobile radio interface layer 3 specification | SMG3WPA | SMG #29 | Shkumbin Hamati (Nokia) | MS Classmark |
| 24.008 SM | Mobile radio interface layer 3 specification | SMG3WPA | SMG #29 | Shkumbin Hamati (Nokia) | |
| 04.18 RR | Mobile radio interface layer 3 specification | SMG2WPA | SMG #29 | Shkumbin Hamati (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 Furuskär (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 | SMG4 | SMG #29 | Erik Colban (Ericsson) | L2R ? |

| Bearer Capabilities | | | | | |
|---------------------|---|----------|---------|-------------------------|---|
| 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 specification | SMG2WPA | SMG #29 | | Abis signalling, channel types, ECSD 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 | |

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. Sections 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, | | SBC, AWS | Roaming between an IS136- |

SMG-TR (GSM 10.59 Version 8.0.0):

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|------------------|---|------------------------|--|----------------------------------|--|
| | | SMG10, SMG3 | | | 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 Netw orks | 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; Stage 2 | SMG2 SMG3 | | Nortel Netw orks/ Ericsson | EDGE Compact logical channels need to be included in GSM 03.64. Add new control channel description – CPCCCH, CPRA CH, CPPCH, CPA GCH, CPNCH, CPBCCCH. *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 Netw orks/ 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 Specification (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 Netw orks | |
| 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 | SMG2 | | PDFG-NS Ericsson | 30-kHz CS related information on PBCCH. To allow non-GSM broadcast |

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|-------|---|---------|--|---------------------------------|--|
| | (RLC/MAC) protocol | | | | 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 Tunneling 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. |

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| | | | | | Synchronization requirements. Band independent except for identification of new frequency band. |
| 05.10 | Radio subsystem synchronisation | SMG2 | | Nortel Netw orks/ 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 sections 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 CRs, including 05.05. |
| 11.11 | Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface | SMG9 | | Nortel Netw orks | Define new Dedicated File (DF) for TDMA. Support introduction of initial PLMN and cell selection for EDGE Compact. Define two new EFs: EF _{CPECCCH} and EF _{VPLMN} . |
| 11.14 | Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface | SMG9 | | AWS/Nortel Netw orks | |
| 11.21 | GSM Radio Aspects Base Station System Equipment | SMG2 | | Nortel Netw orks | 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) |

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 modulation 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 Quaternary 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 | Drafting group |

| Filename | Title | Author | Prepared for |
|-------------------|---|--|--------------|
| | | International Coordination Ad Hoc | |
| EDGE 29/98 | Revised version of EDGE 24/98 | Alcatel, Bell South, Cellnet, Ericsson, Motorola, Nokia, Nortel and Siemens | SMG1 |
| 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 kbps | 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 | |

| Filename | Title | Author | Prepared for |
|-----------------|---|--|--------------|
| SMG2 EDGE 39/98 | EDGE mobile station battery power impact analysis: A comparison between 8PSK, QOQAM (linear) 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 | |
| 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 sw itched 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 sw itched services | SMG1 | SMG4 |

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

| Filename | Title | Author | Prepared for |
|-----------|---|-------------------------------|--------------|
| w s98e047 | Agenda | Chairman | EDGE WS |
| w s98e048 | Meeting report | Secretary | EDGE WS |
| w s98e049 | EDGE: Link Performance Comparison of Link Adaptation and Hybrid II ARQ for Enhanced GPRS | Ericsson | EDGE WS |
| w s98e050 | EDGE: Measurement, Memory and Protocol Requirements for Link Adaptation and Hybrid II ARQ for Enhanced GPRS | Ericsson | EDGE WS |
| w s98e051 | EDGE project plan: 10.59, V1.2.0 | Rapporteur | EDGE WS |
| w s98e052 | Proposal for Link Protocol Evaluation for Enhanced GPRS | Ericsson | EDGE WS |
| w s98e053 | Incremental redundancy for EDGE | AT&T Wireless Service | EDGE WS |
| w s98e054 | Training sequences and interference rejection | AT&T Wireless Service | EDGE WS |
| w s98e055 | A measurement-based link adaptation algorithm and its implementation requirements | AT&T Wireless Service | EDGE WS |
| w s98e056 | Proposed liaison statement concerning EDGE user rates for ECSD | SMG4 | EDGE WS |
| w s98e057 | Serial concatenated codes for EDGE | Nokia | EDGE WS |
| w s98e058 | Circuit sw itched channels for EDGE | Nokia | EDGE WS |
| w s98e059 | Modifications to 05 series specifications | Nokia | EDGE WS |
| w s98e060 | Blind detection of modulation reusing GSM training sequences for 8PSK | Ericsson | EDGE WS |
| w s98e061 | EDGE status in different STCs | Rapporteur | EDGE WS |
| w s98e062 | Coding of modulation type and uplink state flags in training sequences | Nokia | EDGE WS |
| w s98e063 | Burst structure with EDGE to achieve high compability betw een GPRS and EDGE | Lucent Technologies | EDGE WS |
| w s98e064 | Improved modulation schemes for EDGE | Nortel | EDGE WS |
| w s98e065 | Channel coding strategies for EDGE | Nortel | EDGE WS |
| w s98e066 | Arguments for retaining GSM training sequences w ith a GMSK like modulation | Lucent Technologies | EDGE WS |
| w s98e067 | Approximation of true GMSK by linearised GMSK and modified 4PSK | Lucent Technologies | EDGE WS |
| w s98e068 | Draft outcome of the w orking session on EDGE | SMG2 w orking session on EDGE | SMG2 WPB |
| w s98e069 | EDGE: Draft proposal for Link Protocol Evaluation for Enhanced GPRS | - | SMG2 WPB |
| w s98e070 | Outcome of the w orking session on EDGE | SMG2 w orking 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 Sw itched 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, Høye 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 Sw itched 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 |
|-----------|--|------------------------------|--------------------|
| w s98e071 | Agenda | Chairman | EDGE WS98E |
| w s98e072 | Meeting report | Secretary | EDGE WS |
| w s98e073 | EDGE: Concept Proposal for Enhanced GPRS | Ericsson | EDGE WS |
| w s98e074 | EDGE: Evaluation of Link Adaptation and Hybrid II ARQ for Enhanced GPRS | Ericsson | EDGE WS |
| w s98e075 | EDGE: Blind Detection of Modulation | Ericsson | EDGE WS |
| w s98e076 | 10.59 EDGE project plan, V1.4.0 | Rapporteurs | EDGE WS |
| w s98e077 | ECSD - concept evaluation (draft) | Nokia | EDGE WS |
| w s98e078 | Comparison table for LA/ARQ alternatives for EGPRS | Nokia | EDGE WS |
| w s98e079 | Training sequence concepts for EDGE | SMG2 | EDGE WS |
| w s98e080 | EDGE: Comments on ECSD | Ericsson | EDGE WS |
| w s98e081 | Compared impact of Incremental redundancy and link adaptation for EGPRS on the GSM BSS architecture and implementation aspects | Nortel | EDGE WS |
| w s98e082 | Requirements for the development of a compromise solution for the RLC protocol for EDGE | Nortel | EDGE WS |
| w s98e083 | Concatenated codes for EDGE CSD | Nortel | EDGE WS |
| w s98e084 | Simulation evaluation results for EDGE Link Adatation and Incremental Redundancy | AT&T | EDGE WS |
| w s98e085 | Suggested 'Further Improvements to EDGE Combined LA and incremental redundancy | AT&T | EDGE WS |
| w s98e086 | Draft "Outcome of the working session on EDGE, regarding link control and concept aspects" | SMG2 Working session on EDGE | EDGE WS |
| w s98e087 | Draft "Outcome of the EDGE working session regarding modulation refinement and burst structure | SMG2 modulation subgroup | EDGE WS |
| w s98e088 | Revised "Outcome of the EDGE working session regarding modulation refinement and burst structure" | SMG2 Working session on EDGE | SMG2 WPB |
| w s98e089 | Revised "Outcome of the working session on EDGE, regarding link control" | SMG2 Working session on EDGE | EDGE WS |
| w s98e090 | 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 |

SMG-TR (GSM 10.59 Version 8.0.0):

| | | | |
|----------|---|-----------------------|----------|
| 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 |
|-----------|--|----------------|--------------|
| w s98e091 | Meeting report | Secretary | EDGE WS |
| w s98e092 | Meeting report from the Stockholm meeting | Secretary | EDGE WS |
| w s98e093 | Changes in 05.05 due to introduction of EDGE | Ericsson | EDGE WS |
| w s98e094 | EDGE: Concept Proposal for EGPRS | Ericsson | EDGE WS |
| w s98e095 | Link Quality Control Proposal for EGPRS | Ericsson, AT&T | EDGE WS |
| w s98e096 | EDGE: Comments on Link Quality Control Proposals | Ericsson | EDGE WS |
| w s98e097 | EDGE Usage on the BCCH Carrier | Ericsson | EDGE WS |
| w s98e098 | Link Adaptation and Incremental Redundancy for EGPRS – Revised | Lucent | EDGE WS |
| w s98e099 | Comparison of LA/IR Proposals | Lucent | EDGE WS |
| w s98e100 | Performance of Link Adaptation and Incremental Redundancy for EGPRS - Impact of RLC Block Size | Lucent | EDGE WS |
| w s98e101 | ECSD – Concept evaluation, 2.0 | Nokia | EDGE WS |
| w s98e102 | EDGE on BCCH carrier – Impact on cell selection/reselection | Nokia | EDGE WS |
| w s98e103 | Burst based link quality control proposal for EGPRS | Nokia | EDGE WS |
| w s98e104 | Forseen impact on 03.64 | Ericsson | EDGE WS |
| w s98e105 | Comments on ECSD III | Ericsson | EDGE WS |
| w s98e106 | CR A004r2 to 03.34 Modifications to Stage 2 service description due to EDGE | Nokia | EDGE WS |
| w s98e107 | CR A356r2 to 04.08 Classmark and Channel Mode Modifications due to EDGE | Nokia | EDGE WS |
| w s98e108 | CR A371 to 04.08 BCIE modifications due to EDGE | Nokia | EDGE WS |
| w s98e109 | CR A026 to 08.08 Modifications to Channel mode information element | Nokia | EDGE WS |
| w s98e110 | CR A113 to 08.58 Channel Type and Chosen Channel IEs in 08.08 | Nokia | EDGE WS |

SMG-TR (GSM 10.59 Version 8.0.0):

| | | | |
|----------|---|---------------------------------|---------|
| 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 Sw itched Data) – concept evaluation, v. 3.0 | Nokia | SMG2 WPB |
| 2a99-126 | EGPRS concept | Ericsson | SMG2 WPA |
| 2a99-127 | Tw o Burst Based Link Quality Control Proposal for EGPRS | AT&T, Ericsson, Lucent, Nokia, Nortel | SMG2 WPA |
| 2a99-127 | EDGE: Tw o 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 w orkshop 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 | Tw o Burst Based Link Quality Control Proposal for EGPRS | AT&T, Ericsson, Lucent, | SMG2 WPB |

| | | | |
|----------|--|---|------------|
| | | Nokia, Nortel | |
| 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 sw itched EDGE (w ith TCH/F38.4) | Nokia | SMG4 WS |
| 4e99-002 | CR to 08.20 on circuit sw itched EDGE (w ith TCH/F38.4) | Nokia | SMG4 WS |
| 4e99-003 | CR to 07.01 on circuit sw itched EDGE | Nokia | SMG4 WS |
| 4e99-004 | CR to 09.07 on circuit sw itched EDGE | Nokia | SMG4 WS |
| 4e99-005 | CR to 08.60 on circuit sw itched EDGE | Nokia | SMG4 WS |
| 4e99-006 | Proposal for TCH/F43.2 in ECSD NT | Ericsson | SMG4 WS |
| 4e99-007 | Alternative solution w ith 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 sw itched EDGE (w ith TCH/F43.2) | Nokia | SMG4 WS |
| 4e99-009 | CR to 08.20 on circuit sw itched EDGE (w ith TCH/F43.2) | Nokia | SMG4 WS |
| 4e99-010 | Minutes of meeting | Chairman | SMG4 WS |
| 4e99-011 | CR to 04.21 on circuit sw itched EDGE (revision of Tdoc 001) | Nokia | SMG4 WS |
| 4e99-012 | CR to 04.21 on circuit sw itched EDGE (revision of Tdoc 008) | Nokia | SMG4 WS |
| 4e99-013 | CR to 08.20 on circuit sw itched EDGE (revision of Tdoc 002) | Nokia | SMG4 WS |
| 4e99-014 | CR to 08.20 on circuit sw itched 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 sw itched EDGE (revision of Tdoc 003) | Nokia | SMG4 WS |
| 4e99-017 | CR to 04.21 on circuit sw itched EDGE (revision of Tdoc 011) | Nokia | SMG4 WS |
| 4e99-018 | CR to 08.20 on circuit sw itched EDGE (revision of Tdoc 013) | Nokia | SMG4 WS |
| 4E99-019 | CR to 09.07 on circuit sw itched 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 Sw itched 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 TCHF43.2 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 Transmitter – 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 parameters | 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 | Nokia | 5.2.2 |

| | sizes | | |
|----------|---|-----------------|-------|
| 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 | Chairman | |

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| | conference | | |
| 2e99-076 | Draft proposal for chapter 10 of 04.60 | Drafting sub group | |
| 2e99-077 | Draft proposal for chapter 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 | |

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|----------|--|--|--|
| 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, chapters 1-10 | EGPRS drafting session | |
| 2-99-365 | EGPRS drafting session - Draft CR for EGPRS support in 04.60, chapters 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 | |

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| 2-99-465 | Proposed liaison statement to TIA TR 45.3 AHIC concerning "Harmonisation of the EDGE radio specifications between ETSI and TIA" | Alcatel, Ericsson, Packard, Motorola, Nortel, Philips, Siemens | AT&T, Hewlett Packard, Lucent, Nokia, Networks, 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; Chapter 11-12 | Nortel | |
| 2e99-129 | EDGE: Coding / modulation asymmetry for ECSD | Ericsson | |
| 2e99-130 | Concept proposal for EGPRS | Ericsson | |
| 2e99-131 | 04.60 CR, Section 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 | |

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|----------|--|--------------------------|--|
| 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. section 9 | Ericsson | |
| 2e99-164 | CR 04.60, section 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 | O5.03 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 section 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 section 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 | Liaison 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 |

| Tdoc SMG2 | Title | Source | Agenda Item |
|-----------|---|---|-----------------------|
| 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 Sections 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 chapter 1-8 | SMG2 EDGE WS | 7.1.6.6 |
| 2-99-659 | CR 04.60-A367 04.60 CR chapter 9 | SMG2 EDGE WS | 7.1.6.6 |
| 2-99-660 | CR 04.60-A368 04.60 CR chapter 10 | SMG2 EDGE WS | 7.1.6.6 |
| 2-99-661 | CR 04.60-A369 04.60 CR chapter 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 |

| Tdoc SMG2 | Title | Source | Agenda Item |
|-----------|---|--|-------------|
| 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 |
| 2-99-687 | CR 04.60-A369 rev 1 04.60 CR chapter 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 | Proposed 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 asymmetry 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 |

| Tdoc SMG2 | Title | Source | Agenda Item |
|-----------|---|---------------|-------------|
| 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 chapter 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 chapter 10, Revised 2-99-660 | SMG2 EDGE WS | 7.1.6.6 |
| 2-99-851 | CR 04.60-A369 rev 2 04.60 CR chapter 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 netw orks | 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 |

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|----------|--|--------------------|-----|
| 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 | |

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|----------|--|----|-------------------|
| 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 | <i>Not used</i> | 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 | Ericsson | 6.4 |

| | Filtering | | |
|----------|---|----------|------------|
| 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 | withdraw n | | |
| 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 | withdraw n |
| 2e99-301 | Proposed Change Request (CR) to GSM 05.05 Version 8.0.0 Section 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 | Withdraw n | | |
| 2e99-318 | Withdraw n | | |
| 2e99-319 | Withdraw n | | |
| 2e99-320 | Withdraw n | | |
| 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 |

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|----------|--|-------------------------|-----------|
| 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 Calculations 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: Architecture 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 Workshop #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 Section 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 | |

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| 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 reselection | UWCC | |
| 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: Chapter 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 | SMG2EDGE WS | |

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|----------|---|---------------------------------------|--|
| | 1900 MHz Mixed-Mode Change Request for GSM 05.05 | | |
| 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 SMG7EDGE (Tdoc 2e99-394) | SMG2EDGE WS | |
| 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

| 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 Chapter 9 for EGPRS support | Ericsson | 7.1.5.9 |
| 2-99-949 | CR 04.60-A444 Chapter 11-12 for EGPRS support | Ericsson | 7.1.5.9 |
| 2-99-951 | CR 04.60-A445 Chapter 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 SNDCCP, 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 |

| Tdoc | Title | Source | Agenda Item |
|----------|--|-------------------|-------------|
| 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 Chapter 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 |
| 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 |

| Tdoc | Title | Source | Agenda Item |
|----------|--|-------------------|------------------|
| 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 Requirements for 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 impairments | 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 Control for ECSD | Nokia | 7.2.6.6 |

| Tdoc | Title | Source | Agenda Item |
|----------|--|--|------------------|
| 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 |
| 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 Netw orks Nortel Netw orks | 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, Hew lett 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 Requirements for 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 Packets 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 Chapter 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 chapters 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 |

| Tdoc | Title | Source | Agenda Item |
|----------|---|-----------------------------|-------------|
| 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 |
| 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

| Tdoc | Title | Source | Agenda Item |
|----------|---|------------|-------------|
| 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 requirements 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 | Ericsson | 6.3 |

| Tdoc | Title | Source | Agenda Item |
|----------|--|-----------------|-------------|
| | Filtering | | |
| 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 | Withdraw n | 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 hopping in EGPRS Compact | UWCC | 6.2 |
| 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 impairments | 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 | Withdraw n | UWCC | 6.2 |

| Tdoc | Title | Source | Agenda Item |
|----------|---|--------------------------|-------------|
| 2e99-489 | EMC aspects of 8PSK modulation | Lucent | 6.1 |
| 2e99-490 | Update of timer T3198 for EGPRS | Ericsson | 6.3 |
| 2e99-491 | withdraw n | | |
| 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 Tw o Phase Access procedures | Nokia | 6.3 |
| 2e99-494 | Intra-GSMEDGE RAN handover | Nokia | 6.5 |
| 2e99-495 | Aspects on spectral efficiency and voice quality in EGPRS netw orks | Nokia | 6.5 |
| 2e99-496 | On performance of GSMEDGE 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 | Withdraw n | 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 Netw orks | 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: Spurious 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 sw itching requirements for GSM | Siemens | 6.1 |
| 2e99-516 | EGPRS receiver performance w ith impairments | Nortel | 6.1 |
| 2e99-517 | Issues w ith Respect to new Extended Training Sequence for CSCH | Ericsson | 6.2 |
| 2e99-518 | EDGE WS introduction slides | Rapporteur | 2 |
| 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 sw itching requirements fro GSM | Siemens, Nokia, Ericsson | 6.1 |
| 2e99-523 | Low er 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 | Withdraw n | |
| 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 | |

| Tdoc | Title | Source | Agenda Item |
|----------|---|------------------|-------------|
| 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

| Tdoc | Title | Source | Agenda Item |
|-----------------|--|---------------------|-------------|
| <u>2-99-f22</u> | 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 |
| <u>2-99-f23</u> | CR 05.08-A203 COMPACT RF Power Control and Downlink Co-Channel Interference Measurements | UWCC | 7.2.6.6 |
| <u>2-99-f24</u> | Introduction to COMPACT Logical Channel CR for GSM 05.02 Ver. 8.1.0 | UWCC | 7.2.6.6 |
| <u>2-99-f25</u> | CR 05.02-A107 COMPACT Logical Channel | UWCC | 7.2.6.6 |
| <u>2-99-f27</u> | A new CFCH burst for COMPACT | UWCC | 7.2.6.6 |
| <u>2-99-f28</u> | CR 24.008-A049 850 MHz band impacts on GSM 24.008 | UWCC | 7.1.5.9 |
| <u>2-99-f32</u> | CR 11.21-A115 introduction of GSM 400, MXM 850, PCS 1900 and MXM 1900 | Ericsson | 7.3.6.4 |
| <u>2-99-f36</u> | Introduction to CR for COMPACT specific extended training sequence | UWCC | 7.2.6.6 |
| <u>2-99-f37</u> | CR 05.02-A109 COMPACT specific extended training sequence | UWCC | 7.2.6.6 |
| <u>2-99-f38</u> | EGPRS receiver performance | Nortel Networks | 7.2.6.6 |
| <u>2-99-f39</u> | Report from subgroup Layer1 subgroup discussion | EDGE workshop #11 | 7.2.6.6 |
| <u>2-99-f40</u> | CR GSM 05.01-A023 Frequency Hopping for EGPRS Compact | EDGE workshop #11 | 7.2.6.6 |
| <u>2-99-f41</u> | CR GSM 05.02-A110 Frequency Hopping for EGPRS Compact | EDGE workshop #11 | 7.2.6.6 |
| <u>2-99-f42</u> | CR GSM 05.02-A111 Synchronization of Multiframes in EGPRS Compact | UWCC | 7.2.6.6 |
| 2-99-f43 | CR GSM 05.10-A043 Synchronization of Multiframes in EGPRS Compact | UWCC | 7.2.6.6 |
| <u>2-99-f44</u> | Background information for Tdoc SMG2 2-99-f40 - 2-99-f43 | Lucent Technologies | 7.2.6.6 |
| <u>2-99-f45</u> | CR 04.60-A495 rev 2 COMPACT Cell Selection and COMPACT Control Channels | UWCC | 7.1.5.9 |
| <u>2-99-f46</u> | CR 04.18-A038 EGPRS COMPACT Cell Selection | UWCC | 7.1.5.9 |

| | | | |
|--------------------------|---|---------------------|------------------|
| 2-99-f47 | CR 03.22-A043 rev 2 COMPACT Cell Selection part 1 | UWCC | 7.2.6.6 |
| 2-99-f48 | CR 05.08-A180 rev 2 COMPACT Cell Selection and Reselection | UWCC | 7.2.6.6 |
| 2-99-f49 | Concept description for Compact | UWCC | 7.2.6.6 |
| 2-99-f52 | GSM/EDGE RAN Radio Requirements | AT&T | 6.3 |
| 2-99-f53 | GSM/EDGE RAN and all-IP Network Option: Architecture Overview | AT&T | 6.3 |
| 2-99-f54 | GSM/EDGE RAN and all-IP Network Option: Function Split and RT-GPRS Protocols | AT&T | 6.3 |
| 2-99-f55 | GSM/EDGE RAN: Voice Bearer Design | AT&T | 6.3, 7.2.6.7 |
| 2-99-f56 | GSM/EDGE RAN: Multiplexing and MAC Principles | AT&T | 6.3, 7.2.6.7 |
| 2-99-f57 | Introduction to CRs for "Packet Suspend Procedure | EDGE workshop #11 | 7.1.5.9 |
| 2-99-f58 | CR 04.60-A640 Packet suspend procedure for mobile stations capable of non-GSM circuit operation | EDGE workshop #11 | 7.1.5.9 |
| 2-99-f59 | CR 04.18-A034 Support for packet suspend procedure for mobile stations capable of non-GSM circuit operation | EDGE workshop #11 | 7.1.5.9 |
| 2-99-f64 | CR 11.21-A117 Introduction of EDGE | Ericsson | 7.3.6.3 |
| 2-99-f65 | EDGE EGPRS Receiver Performance including Impairments (Rev 2) | Lucent Technologies | 7.2.6.6 |
| 2-99-f66 | Proposal for EDGE EGPRS Receiver performance values in GSM 05.05 | Lucent Technologies | 7.2.6.6 |
| 2-99-f67 | Discussion paper on EDGE receiver performance standardisation | Lucent Technologies | 7.2.6.6 |
| 2-99-f94 | CR 04.60-A624 MS RAC impacts on One Phase and Two Phase Access procedures | Nokia | 7.1.5.9 |
| 2-99-f95 | CR 05.08-A147 rev 5 Fast Power Control for ECSD | EDGE workshop #11 | 7.2.6.6 |
| 2-99-f97 | CR 11.11-Axxx COMPACT Cell Selection Part 1 | UWCC | 7.2.6.6 |
| 2-99-f98 | CR 11.11-Axxx COMPACT Cell Selection Part 2 | UWCC | 7.2.6.6 |
| 2-99-g29 | Intro Cell Selection Part 1 | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g30 | CR 02.11-Axxx Cell Selection | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g31 | CR 24.008-A051 Cell Selection | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g32 | Intro Cell Selection Part 2 | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g33 | CR 02.11-Axxx Cell Selection Part 2 | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g34 | CR 03.22-A046 Cell Selection Part 2 | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g35 | CR 04.60-A426 rev 3 Non GSM Broadcast | EDGE workshop #11 | 7.2.6.6, 7.1.5.9 |
| 2-99-g36 | CR 04.18-A003 rev 2 Non GSM Broadcast | EDGE workshop #11 | 7.2.6.6, 7.1.5.9 |
| 2-99-g37 | CR 04.60-A495 rev 1 COMPACT Cell Selection and COMPACT Control Channels | EDGE workshop #11 | 7.1.5.9 |
| 2-99-g38 | CR 04.18-Axxx EGPRS COMPACT Cell Selection | EDGE workshop #11 | 7.1.5.9 |
| 2-99-g39 | CR 03.22-A043 rev 1 COMPACT Cell Selection part 1 | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g40 | CR 05.08-A180 rev 1 COMPACT Cell Selection and Reselection | EDGE workshop #11 | 7.2.6.6 |
| 2-99-g47 | CR 24.008-063 Mobile Station Classmark 850 and 1900 band included | UWCC | 7.1.5.9 |
| 2-99-g56 | Link Performance of GERAN bearers | Ericsson | 6.3, 7.2.6.7 |
| 2-99-g57 | GERAN reuse pattern impact on system performance | Ericsson | 6.3, 7.2.6.7 |
| 2-99-g58 | GERAN simulation parameters | Ericsson | 7.2.6.7 |
| 2-99-g59 | CR 04.60-A654 Update of timer T3198 | EDGE workshop #11 | 7.1.5.9 |
| 2-99-g60 | CR 04.18-A039 Alignment of 04.18 with 04.60 for EGPRS for downlink assignments | Ericsson | 7.1.5.9 |
| 2-99-g61 | GERAN - Evolution of the 200kHz radio access network | Ericsson | 6.3 |

| | | | |
|--------------------------|---|----------------------------------|------------------------|
| 2-99-g62 | Header compression for GSM/EDGE RAN | Ericsson | 6.3 |
| 2-99-g63 | GSM/EDGE RAN user plane bearers and protocols | Ericsson | 6.3, 7.1.5.9 |
| 2-99-g64 | GSM/EDGE RAN control plane bearers and protocols | Ericsson | 6.3, 7.1.5.9 |
| 2-99-g65 | Minutes of meeting from the EDGE workshop in Austin, US | Secretary | 6.2 |
| 2-99-g66 | 10.59, V1.19 | Rapporteur | 6.2 |
| 2-99-g67 | Initial set of identified work areas | EDGE WS #11 | 6.3 |
| 2-99-g68 | CR 05.05-A132 EDGE blocking requirement for micro and pico-BTS | EDGE-WS#11 | 7.2.6.6 |
| 2-99-g69 | CR 05.05-A133 Spurious emission in RX- and TX-band in other frequency bands | Ericsson | 7.2.6.6 |
| 2-99-g70 | CR 05.05-A101 rev 2 for transmitter/receiver performance in GSM 05.05 | Ericsson | 7.2.6.6 |
| 2-99-g71 | Impact on EVM with different measurement filters | Ericsson | 7.2.6.6 |
| 2-99-g72 | EGPRS performance requirements for USF | Ericsson | 7.2.6.6 |
| 2-99-g73 | EDGE blocking requirement for micro and pico-BTS | EDGE-WS#11 | 7.2.6.6 |
| 2-99-h22 | ECSD Receiver Performance with impairments WITHDRAWN | Nokia | 7.2.6.6 |
| 2-99-h23 | CR 03.64-A067 Correction for EGPRS | EDGE workshop #11 | 7.2.6.6 |
| 2-99-h24 | Enhanced Incremental Redundancy modes for EGPRS | Nokia | 7.2.6.6 |
| 2-99-h25 | CR 03.64-A068 Introduction of incremental redundancy between different coding schemes in EGPRS | EDGE workshop #11 | 7.2.6.6 |
| 2-99-h27 | CR 05.08 A181 rev 2: LQC measurements for EGPRS | Nokia | 7.2.6.6 |
| 2-99-h28 | EGPRS LQC measurements Filtering | Nokia | 7.2.6.6 |
| 2-99-h29 | MEAN_BEP Reporting for EGPRS | Nokia | 7.2.6.6 |
| 2-99-h44 | EVM measurement filter comparison | Nokia | 7.2.6.6 |
| 2-99-h47 | GSM/EDGE RAN Architectural requirements | Nortel Networks | 6.3 |
| 2-99-h48 | Packet AMR Speech in RT-EGPRS - Link Adaptation | Lucent Technologies | 7.2.6.7 |
| 2-99-h62 | GE RAN System Concept document | Rapporteur | 6.3 |
| 2-99-h66 | CR 05.03-A033 EGPRS channel coding, correction | Ericsson | 7.2.6.6 |
| 2-99-h67 | EDGE Receiver performance in 05.05 | Nokia | 7.2.6.6 |
| 2-99-h83 | EDGE practical BTS implementation and spectrum due to switching requirements for GSM | Siemens, Nokia, Ericsson, Nortel | 7.2.6.6 |
| 2-99-i04 | CR 04.60-A694 Transmission of TLLI in each RLC data block when using MCS-7,8, 9 | Lucent Technologies | Nokia, Nortel Networks |
| 2-99-i08 | GSM/EDGE RAN architecture | Nokia | 6.3 |
| 2-99-i09 | New features for GPRS RLC/MAC layers | Nokia | 7.1.5.9 |
| 2-99-i11 | Requirements for IP/UDP/RTP Header Compression | Nokia | 7.2.6.7 |
| 2-99-i12 | Robust and Efficient IP/UDP/RTP Header Compression | Nokia | 7.2.6.7 |
| 2-99-i17 | Liaison Statement to SMG on the requirement for ERAN to support the 3rd Generation evolved Circuit interface for Release 2000 | 3GPP TSG-SA WG2 | 4.2, 6.3 |
| 2-99-i21 | LS to SMG7 Applicability of GPRS and EDGE requirements and tests | SMG2-WPA | 8.1.3 |
| 2-99-i37 | CR 24-008-063 rev 1 Mobile Station Classmark 850 and 1900 band included (revised 2-99-i47) | Nokia. | 7.1.5.9 |
| 2-99-i39 | CR 04.18-A051 Multiband on early classmark sending | Nokia | 7.1.5.9 |
| 2-99-i40 | CR 04.60-A593 rev 2 EGPRS Incremental Redundancy modes MCS-5-7 and MCS-6-9 End-of-TBF MCS selection, revised Tdoc 2-99-h26 | Nokia | 7.1.5.9 |
| 2-99-j33 | CR 11.21-A115 rev 1 introduction of GSM 400, MXM 850, PCS 1900 and MXM 1900 | Ericsson | 7.3.6.4 |
| 2-99-j34 | CR 11.21-A117 rev 1 Introduction of EDGE | Ericsson | 7.3.6.3 |
| 2-99-j35 | CR 11.21-A117 rev 2 Introduction of EDGE | Ericsson | 7.3.6.3 |
| 2-99-j38 | CR 11.21-A115 rev 1 introduction of GSM 400, MXM 850, PCS 1900 and MXM 1900 | WPC | 7.3.6.4 |
| 2-99-j41 | CR 05.08-A147 rev 6 Fast Power Control for ECSD | Nokia | 7.2.6.6 |
| 2-99-j42 | CR 05.05-A133 rev 1 Spurious emission in RX- and TX-band in other frequency bands | Ericsson | 7.2.6.6 |
| 2-99-j43 | EGPRS performance requirements with imperfection | Layer 1 drafting | 7.2.6.6 |

| | | | |
|--------------------------|--|------------------------|---------|
| | for mobile | group | |
| 2-99-j51 | EGPRS performance requirements with imperfections for normal BTS | Layer 1 drafting group | 7.2.6.6 |
| 2-99-j53 | CR GSM 05.01-A023 rev 1 Frequency Hopping for EGPRS Compact | SMG2-WPB | 7.2.6.6 |
| 2-99-j54 | CR GSM 05.02-A110 rev 1 Frequency Hopping for EGPRS Compact | SMG2-WPB | 7.2.6.6 |
| 2-99-j55 | CR GSM 05.10-A043 rev 1 Synchronization of Multiframes in EGPRS Compact | SMG2-WPB | 7.2.6.6 |
| 2-99-j56 | CR 05.08-A180 rev 3 COMPACT Cell Selection and Reselection | SMG2-WPB | 7.2.6.6 |
| 2-99-j75 | CR 04.60-A495 rev 3 COMPACT Cell Selection and COMPACT Control Channels, revised Tdoc 2-99-j45 | UWCC | 7.1.5.9 |
| 2-99-j79 | CR 24.008-A051 rev 1. Cell selection for Compact, Tdoc 2-99-j31 | Ericsson | 7.1.5.9 |
| 2-99-j80 | CR 04.60-A624 rev 1 MS RAC impacts on One Phase and Two Phase Access procedures, revised Tdoc 2-99-j94 | Nokia | 7.1.5.9 |
| 2-99-j81 | Proposed liaison statement on GERAN architecture | GERAN drafting groups | 7.2.6.7 |
| 2-99-j82 | CR 05.02-A107 rev 1 COMPACT Logical Channel | UWCC | 7.2.6.6 |
| 2-99-j83 | CR 05.02-A120 EDGE COMPACT for EGPRS in ANSI-136 Netw orks | Nokia | 7.2.6.6 |
| 2-99-j84 | Proposed liaison statement on GERAN architecture | SMG2-WPB | 7.2.6.7 |
| 2-99-j91 | Proposed Liaison on GERAN architecture | Nortel | 7.2.7 |
| 2-99-j92 | CR 05.02-A107 rev 2 COMPACT Logical Channel | UWCC | 7.2.6.6 |
| 2-99-j93 | Proposed liaison statement on GERAN architecture | SMG2-WPA | 8.2.3 |
| 2-99-j94 | EDGE status | Rapporteur | 6.2 |
| 2-99-j96 | Proposed Liaison on GERAN architecture | Nortel | 7.2.7 |

* SMG2 EDGE WS #12, 13-16 Dec 1999, Amsterdam

| Filename | Title | Source | Agenda |
|--------------------------|---|--------------|--------|
| 2e99-556 | Minutes of meeting from the EDGE workshop in Amsterdam, The Netherlands | Secretary | 2 |
| 2e99-557 | Minutes of meeting from the EDGE workshop in Austin, Texas | Secretary | 3 |
| 2e99-558 | Radio requirements | Ericsson | 6.4.1 |
| 2e99-559 | GERAN architecture | Ericsson | 6.4.1 |
| 2e99-560 | Time schedule for the GERAN | Ericsson | 6.4.1 |
| 2e99-561 | EGPRS receiver performance for BTS | Ericsson | 6.1 |
| 2e99-562 | ECSD receiver performance BTS | Ericsson | 6.1 |
| 2e99-563 | EGPRS performance requirements for USF | Ericsson | 6.1 |
| 2e99-564 | Proposed values for 05.05 receiver performance for BTS | Ericsson | 6.1 |
| 2e99-565 | CR 05.05-A101 rev 3 for Transmitter/receiver performance in GSM 05.05 | Ericsson | 6.1 |
| 2e99-566 | User plane bearers and protocols | Ericsson | 6.4.2 |
| 2e99-567 | Control plane bearers and protocols | Ericsson | 6.4.2 |
| 2e99-568 | Enhanced multiplexing for EGPRS phase II / GERAN | Ericsson | 6.4.2 |
| 2e99-569 | Withdraw n | Ericsson | 6.4.2 |
| 2e99-570 | LQC measurements for EGPRS | Ericsson | 6.3 |
| 2e99-571 | LQC measurements accuracy requirements for EGPRS | Ericsson | 6.3 |
| 2e99-572 | System performance for GERAN | Ericsson | 6.4.2 |
| 2e99-573 | Simulation models and assumptions | Ericsson | 6.4.2 |
| 2e99-574 | Capacity in Blocking and Interference Limited Scenarios | AT&T, Lucent | 6.4.2 |
| 2e99-575 | Radio Requirements for Handover | AT&T | 6.4.1 |
| 2e99-576 | GERAN System Architecture Requirements | AT&T | 6.4.1 |
| 2e99-577 | GERAN System Concept Document | Rapporteur | 6.4.1 |
| 2e99-578 | GERAN Concept Document Text | AT&T | 6.4.1 |
| 2e99-579 | Block-Based Fast Access and Assignment | AT&T | 6.4.2 |
| 2e99-580 | Withdraw n | AT&T | 6 |
| 2e99-581 | CR 04.60 – A595: EGPRS Link Quality Measurements | Lucent | 6.3 |
| 2e99-582 | CR 04.60 – A596: EGPRS Multi-slot Channel Coding Command | Lucent | 6.3 |
| 2e99-583 | | | |
| 2e99-584 | GERAN Concept Proposal | Lucent | 6.4.1 |

SMG-TR (GSM 10.59 Version 8.0.0):

| | | | |
|--------------------------|---|----------------------|-------|
| 2e99-585 | Interleaving for Half Rate Channels in EGPRS Phase II | Lucent | 6.4.2 |
| 2e99-586 | Speech Aspects for Statistically Multiplexed Voice Bearers | Lucent | 6.4.2 |
| 2e99-587 | 8-PSK vs. QPSK Considerations for RT-EGPRS | Lucent | 6.4.2 |
| 2e99-588 | Performance of burst-based access and assignment for EGPRS Phase II | Lucent | 6.4.2 |
| 2e99-589 | Capacity and Control Channel Overhead for Statistical Multiplexing of Voice in EGPRS Phase II | Lucent | 6.4.2 |
| 2e99-590 | EGPRS receiver performances | Motorola | 6.1 |
| 2e99-591 | Motivation for TDOC 2e99-592 | Siemens | 6.3 |
| 2e99-592 | CR 04.60: Support of IR | Siemens | 6.3 |
| 2e99-593 | EGPRS Link Quality Control Measurements Filtering | Nokia | 6.3 |
| 2e99-594 | CR 05.08 A181r3 Link Quality Control Measurements for EGPRS - Withdraw n | Nokia | 6.3 |
| 2e99-595 | Introduction of Enhanced Measurement Reporting | Nokia | 6.3 |
| 2e99-596 | CR 04.18 A044r1 Enhanced Measurement Reporting | Nokia | 6.3 |
| 2e99-597 | CR 05.08 A207r1 Enhanced Measurement Reporting: CS side | Nokia | 6.3 |
| 2e99-598 | CR 05.08 Enhanced Measurement Reporting: PS side | Nokia | 6.3 |
| 2e99-599 | CR 04.60 Enhanced Measurement Reporting | Nokia | 6.3 |
| 2e99-600 | CR 04.60 A624r2 MS RAC Impacts on One Phase and Two Phase Access procedures | Nokia | 6.3 |
| 2e99-601 | EGPRS mode TBF establishment on CCCH | Nokia | 6.3 |
| 2e99-602 | CR 04.18 EGPRS mode TBF establishment on CCCH | Nokia | 6.3 |
| 2e99-603 | CR 05.03: Correction for ECSD Channel Coding | Nokia | 6.3 |
| 2e99-604 | Optional Filtering for EGPRS LQC Measurements | Nokia | 6.3 |
| 2e99-605 | Complete Frequency Hopping for COMPACT | Motorola | 6.2 |
| 2e99-606 | CR 04.60 : Complete Frequency Hopping for COMPACT | Motorola | 6.2 |
| 2e99-607 | CR 05.01 : Complete Frequency Hopping for COMPACT | Motorola | 6.2 |
| 2e99-608 | CR 05.02 : Complete Frequency Hopping for COMPACT | Motorola | 6.2 |
| 2e99-609 | COMPACT Frequency correction burst | Motorola | 6.2 |
| 2e99-610 | CR 05.01 : COMPACT Frequency correction burst | Motorola | 6.2 |
| 2e99-611 | CR 05.02 : COMPACT Frequency correction burst | Motorola | 6.2 |
| 2e99-612 | CR 05.02 : Correction in BS_AG_BLKs_RES formula | Motorola | 6.2 |
| 2e99-613 | EMC Aspects of 8PSK modulation | Lucent | 6.1 |
| 2e99-614 | EGPRS receiver performance for MS | Ericsson | 6.1 |
| 2e99-615 | ECSD receiver performance for MS | Ericsson | 6.1 |
| 2e99-616 | Proposed values for 05.05 receiver performance for MS | Ericsson | 6.1 |
| 2e99-617 | CR 05.05-A101 rev 3 for Transmitter/receiver performance in GSM 05.05 | Ericsson | 6.1 |
| 2e99-618 | CR 05.05 NER performance for 8-PSK | Ericsson | 6.1 |
| 2e99-619 | CR 05.05 Correction of Output level dynamic operation | Ericsson | 6.1 |
| 2e99-620 | CR 05.05 Clarification of IBSS requirements for MXM850 BTS and MXM1900 BTS | Ericsson | 6.1 |
| 2e99-621 | CR 05.05 Clarification of IBSS requirements for PCS1900 BTS | Ericsson | 6.1 |
| 2e99-622 | CR 05.05 Definition of MS operating in MXM network | Ericsson | 6.1 |
| 2e99-623 | ECSD RX performance with impairments - Withdraw n | Nokia | 6.1 |
| 2e99-624 | Discussion document, EDGE Practical BTS Implementation and Spectrum due to Switching Requirements for GSM- Withdraw n | Siemens | 6.1 |
| 2e99-625 | Incorporating Equalization into an EVM Measurement | Agilent Technologies | 6.1 |
| 2e99-626 | CR on 05.05 Annex G: Calculation of EVM, Origin Offset and Frequency Error | Agilent Technologies | 6.1 |
| 2e99-627 | Methodology for Modulation Quality measurement in EDGE for GSM 11.10 and GSM 11.21 | Agilent Technologies | 6.1 |
| 2e99-628 | CR 04.18-A003 rev2 Non-GSM Broadcast Information | Ericsson | 6.2 |
| 2e99-629 | CR 04.60-A426 rev3 Non-GSM Broadcast | Ericsson | 6.2 |
| 2e99-630 | CR 05.02 New Clarifications on USF and B0 for COMPACT | Ericsson | 6.2 |
| 2e99-631 | CR 04.18 A038 rev1 COMPACT Cell Selection, Cell_Bar_Qualify_2 | Ericsson | 6.2 |
| 2e99-632 | CR 04.18 New Emergency call | Ericsson | 6.2 |
| 2e99-633 | EGPRS Ack/Nack Description coding correction - Withdraw n | Ericsson | 6.3 |
| 2e99-634 | TLI Channel Coding Text description | Ericsson | 6.3 |

| | | | |
|--------------------------|--|----------------------|-------|
| 2e99-635 | Alignment of 04.18 with 04.60 for EGPRS Downlink assignments | Ericsson | 6.3 |
| 2e99-636 | GSM/EDGE RAN Architecture | Nokia | 6.4.1 |
| 2e99-637 | Requirements for IP/UDP/RTP Header Compression | Nokia | 6.4.1 |
| 2e99-638 | New features for EGPRS RLC/MAC layers | Nokia | 6.4.2 |
| 2e99-639 | Introduction to COMPACT RF Power Control and Downlink Co-Channel Interference Measurements CRs for GSM 05.02 Ver. 8.1.0 and 05.08 Ver. 8.1.0 | UWCC | 6.2 |
| 2e99-640 | COMPACT RF Power Control and Downlink Co-Channel Interference Measurements CR for GSM 05.08 Ver. 8.1.0 (CR A203 Rev. 1) | UWCC | 6.2 |
| 2e99-641 | COMPACT RF Power Control and Downlink Co-Channel Interference Measurements CR for GSM 05.02 Ver. 8.1.0 | UWCC | 6.2 |
| 2e99-642 | COMPACT RF Power Control and Downlink Co-Channel Interference Measurements CR for GSM 04.60 Ver. 8.1.0 | UWCC | 6.2 |
| 2e99-643 | CR 05.05 EVM requirements for EDGE BTS transmitter with combining equipment | Nokia | 6.1 |
| 2e99-644 | CR 05.50 for 8PSK introduction | Nortel | 6.1 |
| 2e99-645 | EDGE Receiver performance in GSM 05.05 | Nokia | 6.1 |
| 2e99-646 | LS from SMG7 | SMG7 | |
| 2e99-647 | EDGE status & work schedule | Rapporteur | 5.2 |
| 2e99-648 | Revised from 2e99-628 | SMG2EDGE | |
| 2e99-649 | Revised from 2e99-629 | SMG2EDGE | |
| 2e99-650 | Revised from 2e99-630 | SMG2EDGE | |
| 2e99-651 | Revised from 2e99-651 | SMG2EDGE | |
| 2e99-652 | Revised from 2e99-652 | SMG2EDGE | |
| 2e99-653 | Revised from 2e99-640: CR 05.08. Interference measurements | SMG2EDGE | |
| 2e99-654 | Revised from 2e99-640: CR 05.08. Power control | SMG2EDGE | |
| 2e99-655 | Revised from 2e99-641 | SMG2EDGE | |
| 2e99-656 | Revised from 2e99-642 | SMG2EDGE | |
| 2e99-657 | Measurement filter for EVM | Agilent Technologies | 6.1 |
| 2e99-658 | Revised from 2e99-612 | SMG2EDGE | |
| 2e99-659 | CR to 05.08 Withdrawn | Lucent | |
| 2e99-660 | CR to 04.60: See 2e99-680 | Lucent | |
| 2e99-661 | GERAN System Concept Document text | AT&T | |
| 2e99-662 | Revised from 2e99-602. CONDITIONALLY. | SMG2EDGE | |
| 2e99-663 | Revised from 2e99-600 | SMG2EDGE | |
| 2e99-664 | Revised from 2e99-634 | SMG2EDGE | |
| 2e99-665 | Revised from 2e99-635 | SMG2EDGE | |
| 2e99-666 | Revised from 2e99-603 | SMG2EDGE | |
| 2e99-667 | Revised from 2e99-617 | Drafting group | |
| 2e99-668 | Revised from 2e99-618 | Drafting group | |
| 2e99-669 | Revised from 2e99-619 | SMG2EDGE | |
| 2e99-670 | Revised from 2e99-620 | SMG2EDGE | |
| 2e99-671 | Revised from 2e99-621 | SMG2EDGE | |
| 2e99-672 | Revised from 2e99-622 | SMG2EDGE | |
| 2e99-673 | Revised from 2e99-626 | Agilent Technologies | |
| 2e99-674 | Revised from 2e99-613 | SMG2EDGE | |
| 2e99-675 | Answer to the LS from SMG7 | SMG2EDGE | |
| 2e99-676 | LS to SMG7: Testing of LQ measurements accuracy | SMG2EDGE | |
| 2e99-677 | Revision of 2e99-579 | AT&T | |
| 2e99-678 | 3G TR 23.922 | | |
| 2e99-679 | Outcome of drafting group on BTS EGPRS RX performance | Drafting Group | |
| 2e99-680 | CR to 04.60 | SMG2EDGE | |
| 2e99-681 | GERAN Concept Presentation | Lucent | |
| 2e99-682 | Presentation of 2e99-586 | Lucent | |
| 2e99-683 | Outcome of drafting group on MS EGPRS RX performance | Drafting Group | |
| 2e99-684 | Revised from 2e99-643 | SMG2EDGE | |
| 2e99-685 | Revised from 2e99-657 | SMG2EDGE | |
| 2e99-686 | GERAN Radio Requirements | Drafting Group | |
| 2e99-687 | Draft principles of GERAN phased release | AT&T | |
| 2e99-688 | GERAN Radio Requirements | SMG2EDGE | |

| | | | |
|--------------------------|---|----------|--|
| 2e99-689 | Revised from 2e99-675 | SMG2EDGE | |
| 2e99-690 | Revised from 2e99-676 | SMG2EDGE | |
| 2e99-691 | Revised from 2e99-683 - Outcome of drafting group on MS EGPRS RX performance | SMG2EDGE | |
| 2e99-692 | Revised from 2e99-679 - Outcome of drafting group on BTS EGPRS RX performance | SMG2EDGE | |
| 2e99-693 | Revised from 2e99-667 | SMG2EDGE | |

* SMG2 #34, 10-14 Jan 2000, Aalborg

| Filename | Title | Source | Agenda |
|----------|--|---------------------------|---------|
| 2-00-032 | EDGE 8-PSK Nominal Error Rate Receiver Performance | Lucent Technologies | 7.2.6.6 |
| 2-00-033 | EDGE Practical BTS Implementation and Spectrum due to Switching Requirements | Siemens | 7.2.6.6 |
| 2-00-034 | Effect of Removing Droop Compensation from the EVM Calculations WITHDRAWN | Siemens | 7.2.6.6 |
| 2-00-035 | Link Quality Control Measurements Filtering for EGPRS | Ericsson | 7.2.6.6 |
| 2-00-036 | 2-00-Link Quality Control Measurement Accuracy Requirements for EGPRS <i>REPLACED by TDOC SMG2 260</i> | Ericsson | 7.2.6.6 |
| 2-00-037 | Incremental Redundancy Performance Requirements for EGPRS | Ericsson | 7.2.6.6 |
| 2-00-042 | CR 05.05-A134 Measurement Filter for EDGE EVM | Agilent Technologies | 7.2.6.6 |
| 2-00-043 | CR 05.05-A135 : Definition of 8PSK modulation accuracy parameters in Annex G | Agilent Technologies | 7.2.6.6 |
| 2-00-044 | CR 04.60-A725 EGPRS ACK/NACK Description Correction | Ericsson | 7.1.5.9 |
| 2-00-045 | CR 04.60-A726 TLLI Channel Coding Description | SMG2 EDGE workshop #12 | 7.1.5.9 |
| 2-00-046 | CR 04.18-A063 Alignment of 04.18 with 04.60 for EGPRS Downlink Assignments | SMG2 EDGE workshop #12 | 7.1.5.9 |
| 2-00-047 | CR 05.90-A001 EMC Aspects of 8PSK modulation | SMG2 EDGE workshop #12 | 7.2.6.6 |
| 2-00-053 | Introduction to CRs for "Packet Pause Procedure | UWCC | 7.1.5.9 |
| 2-00-054 | CR 04.60-A729 Packet pause procedure for mobile stations capable of non-GSM circuit operation | UWCC | 7.1.5.9 |
| 2-00-055 | CR 04.18-A064 Support for packet pause procedure for mobile stations capable of non-GSM circuit operation | UWCC | 7.1.5.9 |
| 2-00-056 | CR 05.05-A136 Clarification of Intra BTS Intermodulation Attenuation requirements for MXM 850 and MXM 1900 BTS | SMG2 EDGE workshop #12 | 7.2.6.6 |
| 2-00-057 | CR 05.05 A137 Clarification of Intra BTS Intermodulation Attenuation requirements for PCS 1900 BTS | SMG2 EDGE workshop #12 | 7.2.6.6 |
| 2-00-058 | CR 05.05-A138 Definition of MS for Mixed-mode network | SMG2 EDGE workshop #12 | 7.2.6.6 |
| 2-00-059 | CR 05.05-A139 Correction to Output level dynamic operation | SMG2 EDGE workshop #12 | 7.2.6.6 |
| 2-00-060 | CR 05.05-A140 EGPRS receiver performance for MS DCS 1800 and PCS 1900 | Ericsson, Motorola, Nokia | 7.2.6.6 |
| 2-00-061 | CR 05.05-A141 Nominal Error Rate performance for 8-PSK | Ericsson | 7.2.6.6 |
| 2-00-062 | CR 05.10-A050 Modifications for 8-PSK | Ericsson | 7.2.6.6 |
| 2-00-063 | CR 05.05-A142 Corrections to receiver characteristics for EDGE | Ericsson | 7.2.6.6 |
| 2-00-064 | 10.59, V1.20.0 | Rapporteur | 6.2 |
| 2-00-065 | Meeting report from EDGE WS #12 | Rapporteur | 6.2 |
| 2-00-066 | Enhanced multiplexing in EGPRS phase II / GERAN | Ericsson | 7.1.5.9 |
| 2-00-067 | Ciphering for the GERAN | Ericsson | 7.1.5.9 |
| 2-00-068 | GSM/EDGE user plane bearers and protocols | Ericsson | 7.1.5.9 |
| 2-00-069 | GERAN architecture | Ericsson | 6.3 |
| 2-00-070 | A time plan for GERAN | Ericsson | 6.3 |
| 2-00-071 | CR 08.08-A184 Transparent Containers in Intersystem Handover from GSM to UMTS | Nokia | 7.1.5.9 |
| 2-00-072 | CR 08.08-A185 Target Identification in Intersystem Handover from GSM to UMTS | Nokia | 7.1.5.9 |
| 2-00-073 | CR 08.08-A186 UMTS Security Information in BSSAP | Nokia | 7.1.5.9 |
| 2-00-074 | CR 08.08-A187 Common Id | Nokia | 7.1.5.9 |
| 2-00-081 | EGPRS Receiver Performance for BTS | Ericsson | 7.2.6.6 |

| | | | |
|----------|---|----------------------------|------------------|
| 2-00-082 | NER Performance for 8-PSK | Ericsson | 7.2.6.6 |
| 2-00-083 | USF Performance for 8-PSK | Ericsson | 7.2.6.6 |
| 2-00-084 | ECSD Receiver performance for BTS | Ericsson | 7.2.6.6 |
| 2-00-085 | Outcome of Drafting group on BTS EGPRS RX performance | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-086 | Outcome of Drafting group on MS EGPRS RX performance | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-087 | CR 05.05-A101 rev 3 Transmitter/receiver performance for EDGE | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-094 | CR 04.60-A730 COMPACT Change Request for GSM 04.60 | SMG2 EDGE w orkshop #12 | 7.1.5.9 |
| 2-00-095 | CR 05.02-A127 COMPACT Change Request for GSM 05.02 | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-096 | CR 05.08-A234 COMPACT Change Request for GSM 05.08 | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-097 | CR 05.08-A203 Rev. 1 COMPACT Change Request for GSM 05.08 | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-101 | CR 05.50-A011 8-PSK Introduction Change Request for GSM 05.50 | Nortel Netw orks | 7.2.6.6 |
| 2-00-102 | GERAN Concepts: Requirements & proposals | Nortel Netw orks | 6.3 |
| 2-00-144 | CR 05.10-A051 Timegroup definition removal from 05.10 | Ericsson | 7.2.6.6 |
| 2-00-145 | CR 05.02-A128 Timegroup rotation and NIB Clarification | Ericsson | 7.2.6.6 |
| 2-00-146 | CR-05.02-A129 Clarifications in 05.02 | Ericsson | 7.2.6.6 |
| 2-00-147 | CR-03.22-A049 Cell Selection (corrections after SA1) | Ericsson | 7.2.6.6 |
| 2-00-148 | CR 11.11-Axxx COMPACT Cell Selection (For information) | Ericsson | 7.2.6.6 |
| 2-00-149 | CR 24.009-A049 rev 1 Radio Access Capabilities | Ericsson | 7.1.5.9 |
| 2-00-150 | CR 04.18-A065 Compact Old Cell Bar Qualify 2 removal | Ericsson | 7.1.5.9 |
| 2-00-151 | CR 04.60-A426 rev3 Non-GSM Broadcast Information | Ericsson | 7.1.5.9, 7.2.6.6 |
| 2-00-180 | CR 04.60-A749 Establishment of new uplink TBF (R99) | Nokia | 7.1.5.9 |
| 2-00-183 | Radio requirements for GERAN release 2000 | SMG2 EDGE w orkshop #12 | 6.3 |
| 2-00-187 | Complete Frequency hopping for COMPACT | UWCC | 7.2.6.6 |
| 2-00-188 | CR 05.01-A024 on complete Frequency hopping for COMPACT | UWCC | 7.2.6.6 |
| 2-00-189 | CR 05.01-A025 COMPACT frequency correction burst | Motorola | 7.2.6.6 |
| 2-00-190 | CR 05.02-A130 Complete Frequency hopping for COMPACT | UWCC | 7.2.6.6 |
| 2-00-191 | CR 05.02-A131 New block ordering for COMPACT | UWCC | 7.2.6.6 |
| 2-00-192 | CR 05.02-A132 COMPACT frequency correction burst | Motorola | 7.2.6.6 |
| 2-00-193 | COMPACT frequency correction burst | Motorola | 7.2.6.6 |
| 2-00-194 | New block ordering for COMPACT | UWCC | 7.2.6.6 |
| 2-00-195 | CR 04.60-A751 New block ordering for COMPACT | UWCC | 7.1.5.9 |
| 2-00-196 | CR 04.60 - A595 EGPRS Link Quality Measurements | SMG2 EDGE w orkshop #12 | 7.1.5.9 |
| 2-00-197 | GERAN Features for R2000 and R2001 | Lucent | 6.3 |
| 2-00-198 | GERAN Concept Proposal | Lucent | 6.3 |
| 2-00-199 | Interleaving for Half Rate Channels in EGPRS Phase II | Lucent | 7.2.6.7 |
| 2-00-200 | Speech Aspects for Statistically Multiplexed Voice Bearers | Lucent | 7.2.6.7 |
| 2-00-201 | Performance of burst-based access and assignment for EGPRS Phase II | Lucent | 7.2.6.7 |
| 2-00-202 | Capacity and Control Channel Overhead for Statistical Multiplexing of Voice in EGPRS Phase II | Lucent | 7.2.6.7 |
| 2-00-203 | 8-PSK vs. QPSK Considerations for RT-EGPRS | Lucent | 7.2.6.7 |
| 2-00-204 | Access Burst for Block-Based Fast Access | AT&T | 7.2.6.7 |
| 2-00-205 | GERAN Handover Requirements | AT&T | 6.3 |
| 2-00-206 | GERAN Release Phasing & Feasibility Study | AT&T | 6.3 |
| 2-00-207 | GERAN System Concept Document Input | AT&T | 6.3 |
| 2-00-208 | GERAN System Concept Document | Rapporteur | 6.3 |
| 2-00-210 | NER performance for (MS) 8-PSK | Nokia | 7.2.6.6 |
| 2-00-211 | USF performance for 8-PSK | Nokia | 7.2.6.6 |
| 2-00-215 | CR 04.60-A755 on complete Frequency hopping for COMPACT | UWCC | 7.1.5.9 |
| 2-00-222 | CR 05.02-A133 USF Handling in B0 | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-223 | CR 04.18-A003 rev 2 Non-GSM Broadcast Information | SMG2 EDGE w orkshop #12 | 7.1.5.9, 7.2.6.6 |

| | | | |
|----------|--|----------------------------|------------------|
| 2-00-224 | CR 04.18-A038 rev 1 Compact Cell Selection, CBQ2 | SMG2 EDGE w orkshop #12 | 7.1.5.9 |
| 2-00-225 | CR 04.18-A068 Emergency Call Handling in COMPACT | SMG2 EDGE w orkshop #12 | 7.1.5.9 |
| 2-00-227 | CR 05.02-A134 Amount of CPBCCCH and CPPCH blocks per PDCH | Lucent | 7.2.6.6 |
| 2-00-247 | CR 04.60-A624 rev 3 MS RAC Impacts on One-phase and Two-phase Access Procedures | Nokia | 7.1.5.9 |
| 2-00-248 | EGPRS mode TBF establishment on CCCH | Nokia | 7.1.5.9 |
| 2-00-249 | CR 04.18-A056 rev 1 EGPRS mode TBF establishment on CCCH | Nokia | 7.1.5.9 |
| 2-00-250 | Optional Filtering for EGPRS LQC measurements | Nokia | 7.1.5.9, 7.2.6.6 |
| 2-00-251 | CR 04.60-A760 Optional Filtering for EGPRS LQC measurements | Nokia | 7.1.5.9 |
| 2-00-252 | CR 05.08-A240 EGPRS LQC measurements filtering | Nokia | 7.2.6.6 |
| 2-00-253 | CR 05.03-A036 Correction for ECSD Channel Coding | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-254 | Proposed values for 05.05 ECSD receiver performance (MS) | Ericsson, Nokia | 7.2.6.6 |
| 2-00-255 | Proposed values for 05.05 ECSD receiver performance (BTS) | Ericsson, Nokia | 7.2.6.6 |
| 2-00-259 | CR 04.60-A761 RAC in Packet Resource Request Message (R99) | Ericsson | 7.1.5.9 |
| 2-00-260 | Link Quality Control Measurement Accuracy Requirements for EGPRS | Ericsson | 7.2.6.6 |
| 2-00-273 | CR 05.05-A151 Switching Transients for 8-PSK | Siemens | 7.2.6.6 |
| 2-00-337 | Work areas to be included in R00 GERAN | Nokia | 6.3 |
| 2-00-349 | CR 05.05-A148 ECSD Receiver performance for MS | Ericsson, Nokia | 7.2.6.6 |
| 2-00-352 | CR 05.03-A037 Correction for EGPRS channel coding | Nortel, Nokia, Ericsson | 7.2.6.6 |
| 2-00-353 | CR 05.08-A240 rev 1 EGPRS LQC measurements filtering | Nokia | 7.2.6.6 |
| 2-00-370 | CR 04.60-A787 Correction to Packet Uplink Ack/Nack for Fixed Allocation in EDGE | Motorola | 7.1.5.9 |
| 2-00-381 | CR 04.18-A059 rev 1 Measurement order for Connected mode ver 1 | Ericsson | 7.1.5.9? |
| 2-00-384 | CR 05.05-A149 EVM requirements for EDGE BTS transmitter with combining equipment | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-386 | Proposed Liaison Statement to SMG7 on Testing of Link Quality Measurement accuracy | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-387 | Proposed Answer to Liaison Statement from SMG7 on Definition of Block Errors | SMG2 EDGE w orkshop #12 | 7.2.6.6 |
| 2-00-405 | CR 08.08-Axxx Handover Request UE Capability | Ericsson | 7.1.5.9? |
| 2-00-407 | CR 05.08-A243 Missing GSM 850 requirements for Classic BCCH | Nokia | 7.2.6.6 |
| 2-00-408 | Incremental Redundancy performance requirements WITHDRAWN | Ericsson | 7.2.6.6 |
| 2-00-409 | CR 05.09-A006 Incremental Redundancy performance requirements | Ericsson | 7.2.6.6 |
| 2-00-410 | Link Quality Measurement Filtering for EGPRS | Ericsson | 7.2.6.6 |
| 2-00-414 | EDGE Status Report | Rapporteur | 6.2 |
| 2-00-415 | GERAN Timeplan for Release 2000 – 2001 | Drafting group on GERAN | 7.2.6.7 |
| 2-00-416 | CR 05.02-A143 Complete Frequency hopping on COMPACT | Ericsson | 7.2.6.6 |
| 2-00-417 | Frequency hopping on uplink for COMPACT | Ericsson | 7.2.6.6 |
| 2-00-418 | Outcome of the drafting group on EDGE Receiver Performance | Drafting Group | 7.2.6.6 |
| 2-00-419 | 2-00-Draft Liaison Statement on GERAN (GSM/EDGE) architecture. Response to Tdoc SMG2 141 | Drafting Group on GERAN | 7.2.6.7 |
| 2-00-420 | Radio Requirements for the GERAN | Drafting Group on GERAN | 7.2.6.7 |
| 2-00-421 | CR 05.08-A240 rev 2 EGPRS LQC measurements filtering | Nokia | 7.2.6.6 |
| 2-00-434 | CR 04.18-A057 rev 1 Measurement order Idle mode | Ericsson | 7.1.5.9 |
| 2-00-435 | CR 04.18-A059 rev 2 Measurement order for Connected mode ver 1 | Ericsson | 7.1.5.9? |
| 2-00-436 | CR 04.18-A061 rev 1 Introduction of UMTS measurements in measurement results IE | Ericsson | 7.1.5.9 |
| 2-00-437 | CR 04.60-A760 rev 1 Optional Filtering for EGPRS LQC measurements | Nokia | 7.1.5.9 |

| | | | |
|----------|---|---------------------------|------------------|
| 2-00-440 | CR 04.18-A062 rev 1 Adding UE capabilities to Handover Required BSSMAP | Ericsson | 7.1.5.9 |
| 2-00-451 | CR 05.05-A150 Incremental Redundancy Performance | SMG2-WPB | 7.2.6.6 |
| 2-00-452 | CR 05.08-A244 Example on Link Adaptation Algorithm for EGPRS | SMG2-WPB | 7.2.6.6 |
| 2-00-453 | Proposed Liaison Statement to SMG7 on Testing of Link Quality Measurement accuracy | SMG2-WPB | 7.2.6.6 |
| 2-00-454 | CR 05.05-A140 rev 1 EGPRS receiver performance for MS DCS 1800 and PCS 1900 | Ericsson, Motorola, Nokia | 7.2.6.6 |
| 2-00-455 | CR 05.05-A148 rev 1 ECSD Receiver performance for MS | Ericsson, Nokia | 7.2.6.6 |
| 2-00-456 | Outcome of the drafting group on EDGE Receiver Performance | Drafting Group | 7.2.6.6 |
| 2-00-457 | CR 05.03-A038 Editorial correction to MCS-4 WITHDRAWN | Nokia, Nortel Networks | 7.2.6.6 |
| 2-00-458 | CR 05.50-A011 rev 1 8-PSK Introduction Change Request for GSM 05.50 | Nortel Networks | 7.2.6.6 |
| 2-00-459 | CR 05.05-A101 rev 4 Transmitter/receiver performance for EDGE | SMG2-WPB | 7.2.6.6 |
| 2-00-460 | CR 05.05-A134 rev 1 Measurement Filter for EDGE EVM | SMG2-WPB | 7.2.6.6 |
| 2-00-461 | Open items on EDGE release 99 | Rapporteur | 7.2.6.6 |
| 2-00-464 | CR 05.02-A127 rev 1 COMPACT Change Request for GSM 05.02 | SMG2-WPB | 7.2.6.6 |
| 2-00-465 | CR 05.08-A234 rev 1 COMPACT Change Request for GSM 05.08 | SMG2-WPB | 7.2.6.6 |
| 2-00-466 | CR 05.08-A203 rev 2 COMPACT Change Request for GSM 05.08 | SMG2-WPB | 7.2.6.6 |
| 2-00-467 | CR 05.01-A024 rev 1 on complete Frequency hopping for COMPACT | SMG2-WPB | 7.2.6.6 |
| 2-00-468 | CR 05.02-A143 rev 1 Complete Frequency hopping on COMPACT | SMG2-WPB | 7.2.6.6 |
| 2-00-469 | CR 05.08-A243 rev Missing GSM 850 requirements for Classic BCCH | SMG2-WPB | 7.2.6.6 |
| 2-00-470 | 2-00-Draft Liaison Statement on GERAN (GSM/EDGE) architecture. Response to Tdoc SMG2 141 | Drafting Group on GERAN | 7.2.6.7 |
| 2-00-471 | CR 05.05-A135 rev 1 Definition of 8PSK modulation accuracy parameters in Annex G | Agilent Technologies | 7.2.6.6 |
| 2-00-472 | GERAN Timeplan for Release 2000 – 2001 | Drafting group on GERAN | 7.2.6.7 |
| 2-00-476 | CR 08.08-A183 rev 1 Adding UE to Classmark Change | Ericsson | 7.1.5.9 |
| 2-00-477 | CR 04.18-A038 rev 2 Compact Cell Selection, CBQ2 | SMG2 EDGE workshop #12 | 7.1.5.9 |
| 2-00-478 | CR 04.60-A426 rev 4 Non-GSM Broadcast Information | Ericsson | 7.1.5.9, 7.2.6.6 |
| 2-00-479 | CR 04.18-A003 rev 3 Non-GSM Broadcast Information | SMG2 EDGE workshop #12 | 7.1.5.9, 7.2.6.6 |
| 2-00-480 | CR 04.60-A730 rev 1 COMPACT Change Request for GSM 04.60 | SMG2 EDGE workshop #12 | 7.1.5.9 |
| 2-00-482 | CR 05.05-A151 Switching Transients for 8-PSK | Siemens | 7.2.6.6 |
| 2-00-483 | Status report for COMPACT | Rapporteur | 6.2 |
| 2-00-487 | Radio Requirements for the GERAN | Drafting Group on GERAN | 7.2.6.7 |
| 2-00-488 | Liaison Statement on CR 23.122 after split in SMG2 and CN1 | SMG2-WPB | 7.2.6.6 |
| 2-00-490 | CR04.60-A751rev2 Frequency hopping and block ordering on COMPACT | Ericsson/Motorola | 7.1.5.9 |
| 2-00-491 | CR 04.60-A624 rev 4 MS RAC Impacts on One-phase and Two-phase Access Procedures | Nokia | 7.1.5.9 |
| 2-00-492 | CR 24.009-A049 rev 2 Radio Access Capabilities | Ericsson | 7.1.5.9 |
| 2-00-493 | CR 04.60-A729 rev 1 Packet pause procedure for mobile stations capable of non-GSM circuit operation | UWCC | 7.1.5.9 |
| 2-00-494 | CR 04.18-A063 rev 1 Alignment of 04.18 with 04.60 for EGPRS Downlink Assignments | SMG2 EDGE workshop #12 | 7.1.5.9 |
| 2-00-496 | CR 24.009-A049 rev 3 Radio Access Capabilities | Ericsson | 7.1.5.9 |
| 2-00-500 | Liaison Statement on CR 23.122 after split in SMG2 and CN1 | SMG2-WPB | 7.2.6.6 |
| 2-00-502 | CR 05.08-A240 rev 3 EGPRS LQC measurements filtering | Nokia | 7.2.6.6 |

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|----------|--|----------|---------|
| 2-00-503 | CR 05.05-A101 rev 5 Transmitter/receiver performance for EDGE | SMG2-WPB | 7.2.6.6 |
| 2-00-504 | CR 05.05-A141 rev 1 Nominal Error Rate performance for 8-PSK | SMG2-WPB | 7.2.6.6 |
| 2-00-505 | CR 05.05-A135 rev 2 Definition of 8PSK modulation accuracy parameters in Annex G | SMG2-WPB | 7.2.6.6 |
| 2-00-506 | CR 05.08-A203 rev 3 COMPACT Change Request for GSM 05.08 | SMG2-WPB | 7.2.6.6 |
| 2-00-511 | CR 08.18-A103 Radio Access Capabilities | Ericsson | 7.1.5.9 |
| 2-00-516 | CR 04.60-A760 rev 2 Optional Filtering for EGPRS LQC measurements | Nokia | 7.1.5.9 |
| 2-00-520 | CR 04.60-A760 rev 2 Optional Filtering for EGPRS LQC measurements | Nokia | 7.1.5.9 |

* SMG2 GERAN WS #1, 21-22 Feb 2000, Uppsala

| Filename | Title | Source | Agenda |
|----------|---|--|--------|
| 2g00-001 | Draft Agenda | SMG2 chairman | 2 |
| 2g00-002 | Proposal for an Inter RAN Signaling Interface (lux) | AT&T | 4 |
| 2g00-003 | GSM/EDGE RAN Architecture for R00 | Lucent Technologies | 4.1 |
| 2g00-004 | GERAN Handover and Reselection with 3G Core-WITHDRAWN | Lucent Technologies | 6 |
| 2g00-005 | Support of Legacy GPRS Terminals in GERAN R00 | Lucent Technologies | 4.3 |
| 2g00-006 | Functional Split between GERAN and Core Network for R00 Iu-ps | Lucent Technologies | 4.1 |
| 2g00-007 | GSM/EDGE RAN – evolution of the 200 KHz radio access network | Ericsson | 4.1 |
| 2g00-008 | Comparison between PDCP and SMDCP/LLC | Ericsson | 4.1 |
| 2g00-009 | GERAN Architecture for R2000 | Nokia | 4.1 |
| 2g00-010 | Interoperability of GERAN with other systems | Nokia | 6 |
| 2g00-011 | Location Services in GERAN | Nokia | 4.3 |
| 2g00-012 | GERAN Handover Requirements | AT&T | 6 |
| 2g00-013 | Deciding Between an Iu-ps' and an evolved Gb for the GERAN to Core Network Interface | T-Mobil | 4.2 |
| 2g00-014 | Gb+ or Iu-PS? | Vodafone | 4.2 |
| 2g00-015 | GERAN concepts and requirements | Nortel Networks | 4.1 |
| 2g00-016 | GERAN radio interface | Nortel Networks | 4.1 |
| 2g00-017 | GERAN network architecture | Nortel Networks | 4.2 |
| 2g00-018 | 3GPP "All-IP" vision - Long and short term (Outcome of 3GPP TSG-SA "All-IP" workshop) | TSG-SA workshop | 3 |
| 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 |
| 2g00-020 | DRAFT requirements and agreements for the GERAN to CN packet switched domain | Drafting group | 4 |
| 2g00-021 | Requirements and agreements for the GERAN to CN packet switched domain | GERAN workshop | 4 |

* SMG2 EDGE WS #13, 23-25 Feb 2000, Uppsala

| Filename | Title | Source | Agenda |
|----------|---|----------------------|--------|
| 2e00-001 | Minutes of meeting from the EDGE workshop in Uppsala | Secretary | 2 |
| 2e00-002 | Minutes of meeting from the EDGE workshop in Amsterdam, The Netherlands | Secretary | 3 |
| 2e00-003 | 10.59, V1.21.0 | Rapporteur | 5 |
| 2e00-004 | GERAN project plan, 10.xx, V0.0.1 | Rapporteur | 5 |
| 2e00-005 | Withdrawn | Agilent Technologies | 6.1.1 |
| 2e00-006 | GERAN RTFACCH: Conversational Traffic Class (Transparent RTP/UDP/IP Mode) | Nortel | 6.2.2 |
| 2e00-007 | GERAN RTFACCH: Conversational Traffic Class (Non-Transparent RTP/UDP/IP Mode) | Nortel | 6.2.2 |

| | | | |
|----------|---|----------------------|-------|
| 2e00-008 | GERAN RTFACCH: Streaming Traffic Class (Non-Transparent RTP/UDP/IP Mode) | Nortel | 6.2.2 |
| 2e00-009 | System Concept Document | AT&T | 6.2.1 |
| 2e00-010 | GERAN Handover Requirements | AT&T | 6.2.1 |
| 2e00-011 | Requirements for 8PSK HR Voice Bearers | AT&T | 6.2.1 |
| 2e00-012 | Withdraw n | AT&T | 6.3.1 |
| 2e00-013 | GSM/EDGE RAN user plane bearers and protocols | Ericsson | 6.2.2 |
| 2e00-014 | Guidelines for the feasibility study on performance enhancements | Ericsson | 6.3.1 |
| 2e00-015 | Comparison between PDCP and SNDCP/LLC | Ericsson | 6.2.2 |
| 2e00-016 | Intra-Radio Block Flow Multiplexing for GSM/EDGE RAN | Ericsson | 6.2.2 |
| 2e00-017 | Nominal Error Rate for BTS and MS | Ericsson | 6.1.1 |
| 2e00-018 | Radio link performance with EDGE repeaters | Ericsson | 6.1.1 |
| 2e00-019 | CR: Modulation accuracy for EDGE repeaters | Ericsson | 6.1.1 |
| 2e00-020 | CR: Transmitter /receiver performance for EDGE | Ericsson | 6.1.1 |
| 2e00-021 | CR: Nominal Error Rate performance for 8-PSK | Ericsson | 6.1.1 |
| 2e00-022 | Withdraw n | Ericsson | 6.1.1 |
| 2e00-023 | CR 04.60 : Order of FBI/TI and E bits in RLC/MAC headers | Motorola | 6.1.2 |
| 2e00-024 | CR 04.60 : GPRS and EGPRS TBF modes for a single MS | Motorola | 6.1.2 |
| 2e00-025 | CR 04.60 : Correction in Cell Option CSN-1 description | Motorola | 6.1.2 |
| 2e00-026 | CR 04.60 : Clarification on the handling of BEP_PERIOD2 | Motorola | 6.1.2 |
| 2e00-027 | CR 04.18 : COMPACT : impact of new block ordering on SI19 | Motorola | 6.1.2 |
| 2e00-028 | CR 05.10 : EGPRS Classic to COMPACT BTS synchronisation | Motorola | 6.1.2 |
| 2e00-029 | GERAN Architecture for R2000 | Nokia | 6.2.1 |
| 2e00-030 | INTEROPERABILITY OF GERAN WITH OTHER SYSTEMS | Nokia | 6.2.1 |
| 2e00-031 | Location Services in GERAN | Nokia | 6.2.1 |
| 2e00-032 | Voice over EGPRS Performance under different Operational Scenarios | Nokia | 6.2.1 |
| 2e00-033 | Comments on GERAN simulation parameters | Nokia | 6.3.1 |
| 2e00-034 | Proposed values for 05.05 EGPRS receiver performance (BTS) | Nokia | 6.1.1 |
| 2e00-035 | Proposed values for 05.05 NER receiver performance (BTS) | Nokia | 6.1.1 |
| 2e00-036 | Associated Control Channels for GERAN Radio Access Bearers | Nokia | 6.2.1 |
| 2e00-037 | GERAN PDCP RLC MAC Layers | Nokia | 6.2.2 |
| 2e00-038 | GERAN Radio Access Bearers | Nokia | 6.2.2 |
| 2e00-039 | Shared MAC mode for GERAN | Nokia | 6.2.2 |
| 2e00-040 | MACH: eMbedded Associated Channel | Nokia | 6.2.2 |
| 2e00-041 | CR 04.60 for MS RAC | Nokia | 6.1.2 |
| 2e00-042 | CR 04.18 for EGPRS TBF Establishment on CCCH | Nokia | 6.1.2 |
| 2e00-043 | CR 04.18 for EGPRS on IA Rest Octets IE | Nokia | 6.1.2 |
| 2e00-044 | CR 05.08 for EGPRS LQ Measuremen | Nokia | 6.1.2 |
| 2e00-045 | ECSD BTS RX performance with impairments | Nokia | 6.1.1 |
| 2e00-046 | CR 05.08 for EDGE offset parameter to cell re-selection | Nokia | 6.1.2 |
| 2e00-047 | Withdraw n | Nokia | 6.1.2 |
| 2e00-048 | CR 04.60 - Clarification on bitmap compression in ACK/NACK IE | Motorola | 6.1.2 |
| 2e00-049 | EGPRS Rx and NER performance for BTS | Nortel | 6.1.1 |
| 2e00-050 | Changes to GSM05.05, Annex G | Agilent Technologies | 6.1.1 |
| 2e00-051 | Physical Layer Design Criteria for Voice in RT-EGPRS | Lucent | 6.2.3 |
| 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 | Withdraw n | 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 |

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|----------|---|------------------------------|-------|
| 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 | Withdraw n | 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 | Rapporteur | 5 |
| 2e00-072 | Requirements and agreements for the GERAN to CN packet sw itched 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 | Answe r 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 | Answe r 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 |

| | |
|----------------------------|--|
| <p>Peak Rates</p> | <p>This section assumes that the same types of services as in current GSM should be provided in EDGE.</p> <p>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</p> <p>EGPRS: 384 kbps (48 kbps/timeslot) (3km/h – 100km/h)** 144 kbps (18 kbps/timeslot) (250 km/h)**</p> <p>ECSD T: 32 kbps/timeslot *) (3km/h - 100km/h)** 32 kbps/timeslot *) (250 km/h)**</p> <p>ECSD NT: 28.8 kbps/timeslot *)</p> <p>*)The data rates are not defined yet by SMG2/4 and giving a rough indication</p> <p>**) See GSM05.05 for channel conditions.</p> <p>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).</p> <p>Same delay requirements as in GSM of today applies for EDGE.</p> <p>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.</p> |
| <p>Flexibility</p> | <p>Negotiation of bearer service attributes as provided in GSM.</p> <p>Provision of General Bearer Services and provision of GPRS services apply for EDGE.</p> <p>The same parameter negotiation as for HSCSD applies.</p> <p>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).</p> <p>Mechanism to report data rate change to application as done today.</p> <p>Modulation is set per time slot depending on BTS capabilities.</p> <p>Seamless transition ECSD-> CSD -> ECSD and EGPRS classic ->GPRS -> EGPRS classic in case of variable EDGE deployment.</p> <p>Seamless transition from EGPRS Classic->EGPRS Compact->EGPRS Classic is possible when the Classic and Compact systems are time-synchronised.</p> |
| <p>Applications</p> | <p>EDGE bearer capabilities should provide basis for real-time multi-media services, e.g. video applications.</p> <p>Typical GPRS applications should be provided with higher bitrates.</p> |

| | |
|--|--|
| Handover/Cell-reselection | <p>Re-selection methods should allow the operator to optimise the service availability for EDGE users.</p> <p>EDGE should not prevent seamless HO between compatible access networks.</p> <p>Efficient handover between EDGE and GSM cells should be possible.</p> |
| Roaming | <p>EDGE should not prevent roaming with 3rd generation system, e.g. UMTS, IS136HS.</p> |
| | <p>OPERATIONAL REQUIREMENTS</p> |
| Compatibility with Services Provided by Present Core Transport Networks | <p>Network interworking should be possible to:</p> <ul style="list-style-type: none"> PSTN ISDN PSPDN CSPDN X.25 networks IP networks other GPRS PLMN's, directly or via a transit network <p>Service interworking should be possible to:</p> <ul style="list-style-type: none"> Supplementary Services that are applicable to the General Bearer Service. SMS MO/PP SMS MT/PP |
| Radio Access Network Planning | <p>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.</p> |
| Private and Residential Operators | <p>The radio access scheme should be suitable for low cost applications where range, mobility and user speed may be limited.</p> |
| | <p>SPECTRUM USAGE</p> |
| Coverage / Capacity | <p>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.</p> <p>EGPRS Compact shall be possible to deploy in less than 1 MHz initial spectrum.</p> |
| Interference | <p>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.</p> |
| Frequency | <p>EDGE can be deployed on 850, 900, 1800 and 1900 MHz bands.</p> |
| | <p>COMPLEXITY/COST</p> |

| | |
|------------------------------------|---|
| 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.

14.1 Bearer capabilities

14.1.1 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.

14.1.1.1 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 outdoor | range | 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 |

14.1.1.2 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 outdoor | range | 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 outdoor | range | 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.

14.1.2 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.

14.1.3 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.

14.1.4 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.

14.1.5 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.

14.2 Operational requirements

14.2.1 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.

14.2.2 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.

14.2.3 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.

14.2.4 Operators

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

14.3 Efficient spectrum usage

14.3.1 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.

14.3.2 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.

14.3.3 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.

14.3.4 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.

14.3.4.1 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.

14.3.4.2 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.

14.4 Complexity / Cost

14.4.1 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.

14.4.2 Network complexity and cost

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

14.4.3 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).

14.5 Requirements from bodies outside SMG

14.5.1 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.

14.5.2 RF Radiation effects

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

14.5.3 Security

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

14.6 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.

14.7 Further Work Areas

14.7.1 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.

14.7.3 Measurements in existing GSM

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

History

| Document history | |
|----------------------------------|--|
| 16 th February 1998 | First draft |
| 20 th February 1998 | Update after Joint SMG1,2,3 & 4 EDGE workshop in Helsinki |
| 27 th April 1998 | Update after SMG1 and SMG2 WPB#4 |
| 25 th May 1998 | Update after SMG4 and EDGE SMG2 working session |
| 27 th May 1998 | Update after smg2 #26 decision, V1.0.0 |
| 3 rd July 1998 | Update after SMG4 workshop, V1.1.0 |
| 7 th August 1998 | Update after SMG1 plenary, V1.2.0 |
| 28 th August 1998 | Update after SMG2 EDGE workshop and SMG3WPA, V1.3.0, removal of open questions. expanded concept section |
| 12 th of October 1998 | Update after SMG2WPA and SMG2 WPB, V1.4.0 |
| 2 nd of November 1998 | Update after EDGE WS, V1.5.0 |
| 2 nd of December 1998 | Update for EDGE WS #6, V1.6.0 |
| 14 th December 1998 | Update for SMG 7, V1.7.0 |
| 7 th of January 1999 | Update for SMG2 WPB, V1.8.0 |
| 25 th of January 1999 | Update for SMG2 plenary, V1.9.0 |
| 4 th February 1999 | Update for SMG plenary, V1.10.0 |
| 2 nd March 1999 | Update for SMG2 EDGE WS #7, V1.11.0 |
| 12 th March 1999 | Update for SMG2 #30, V1.12.0 |
| 31 st May 1999 | Updated for SMG2 #31, V1.13.0 |
| 18 th June 1999 | Updated for SMG EDGE WS #9, V1.14.0 |
| 24 th August 1999 | Updated for SMG EDGE WS #10, V1.15.0 |
| 19 th September 1999 | CR list for EDGE compact included, updated for SMG2 #32, V1.16.0 |
| 22 th September 1999 | COMPACT requirements included, V1.17.0 |
| 14 th October 1999 | Update with results from SMG2#32, V1.18.0 |
| 22 th November 1999 | Updated with results from workshop and other STCs, V1.19.0 |
| 10 th January 2000 | Updated with results from workshop and SMG #30bis, V1.20.0 |
| 23 rd February 2000 | Updated with the results from SMG2 and SMG#31, V1.21.0 |
| 2 nd April 2000 | Updated with results from EDGE WS #13, V1.22.0 |
| 22 nd May 2000 | Updated with results from SMG #31bis, V1.23.0 |
| June 2000 | Approved at SMG#32 Plenary |
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Document history

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