

**ETSI SMG
Meeting n°24bis
Paris, 28th - 29th January, 1998**

ETSI/SMG (98) 1 Part A

(Part A)

Executive Summary SMG#24bis

Status: approved

(Part B)

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Fred Hillebrand, Chairman of SMG, opened the meeting and thanked Alcatel and Nortel for hosting the meeting.

Alistair Urie addressed the meeting and welcomed the delegates on behalf of the hosts.

Fred Hillebrand welcomed the delegates, in particular the Japanese delegation and Scott Fox from BellSouth.

1 APPROVAL OF THE AGENDA

The agenda in Tdoc SMG 11/98 was approved.

2 UTRA

2.0 INFORMATION OF PRESS

Fred Hillebrand presented a proposal of the SMG Co-ordination Group (SMG CG) concerning information to the press:

- ETSI should inform about the results
- Christopher Corbett and Fred Hillebrand will elaborate a press release
- The press release will be presented to SMG for approval
- The press is invited for a briefing on Thursday 29 January 17:00 hours
- The SMG CG recommended that no interim results should be communicated to the press.

This proposal was approved by SMG#24bis.

François Grassot proposed to in addition inform the press - without further comments - about the result of 28th January voting. This was approved by SMG#24bis.

Later in the meeting, SMG#24bis approved the press releases of 28th and 29th January 1998 in Annex 3 and Annex 4.

2.1 REVIEW OF THE IPR SITUATION

Fred Hillebrand reminded the delegates of the obligations from the ETSI IPR policy, in particular resulting from section 4.1 of the ETSI IPR policy:

- “4.1 Each MEMBER shall use its reasonable endeavours to timely inform ETSI of ESSENTIAL IPRs it becomes aware of. In particular, a MEMBER submitting a technical proposal for a STANDARD shall, on a bona fide basis, draw the attention of ETSI to any of that MEMBER's IPR which might be ESSENTIAL if that proposal is adopted.
- 4.2 The obligations pursuant to Clause 4.1 above do however not imply any obligation on MEMBERS to conduct IPR searches.”

ETSI Legal Advisor Hélène Lafferre informed the meeting that further declarations on WCDMA and TD-CDMA have been received, see Tdoc SMG 21/98, *Report on Essential IPRs declared in relation to the work of SMG#24*.

Question Josef Huber: 60 companies were identified by Siemens to have UTRA relevant patents. How many of them gave the necessary declarations to ETSI?

Answer Hélène Lafferre: Around 20 of the 60 have responded. The companies have 3 months time to react. Some companies declared that their study is going on. 39 declarations have been received in total.

Adriana Nugter informed SMG#24 that GSM MoU sent out a letter to relevant parties asking for identification of relevant IPRs and of the companies' IPR policy. Deadline for answers was 7th January 1998. The answers received until that date were too few to establish a basis of information. Due to this uncertainties, IPR questions are not considered in GSM MoU as a decisive point at this point in time.

Tdoc SMG 23/98, *Motorola IP Policy for UMTS*, source Motorola, expresses Motorola's believe the IPR environment strongly to favour TD-CDMA.

Ruprecht Niepold presented a statement of the European Commission, see Tdoc SMG 22/98, *Draft Declaration on UMTS on the occasion of the SMG #24bis (Paris 28-29 January 1998) by the representative of the services of the Commission (Counsellor to ETSI)*. Major points:

- The Commission recognises the role of ETSI to define the 3rd generation standard for the European Economic Area.
- ETSI must use clear transparent rules in that definition process.
- A fair IPR policy is necessary.
- Competition rules may become applicable when the holder of a UMTS Essential IPR or a group of UMTS IPR holders occupy a dominant position in respect of the IPRs necessary to comply with the UMTS standard: Should abuses occur, the Commission will consider which appropriate action to take in enforcement of Community law and in support of EU policy. In this context the Community competition rules regard a group of companies under common control as a single commercial entity.

Heikki Ahava presented Tdoc SMG 7/98, *IPR LICENSING POLICY STATEMENT FOR WCDMA*, source Ericsson, Nokia, NTT DoCoMo, NEC, Fujitsu, Matsushita (Panasonic), Mitsubishi Electric, informing about activities of these companies on handling IPRs in an open process.

Representatives of the delta concept group reported on similar activities of the protagonists of the delta concept.

Adriana Nugter on behalf of GSM MoU welcomed the initiatives taken by some companies in the field of IPR.

On behalf of Qualcomm, Ronald E. Foerster reported Qualcomm to have signed and to fully support the ANSI IPR policy, also Qualcomm to have IPR agreements with 50 to 60 manufacturers; Qualcomm to have concluded to have a strong IPR position in both the alpha and the delta concept, but to need to investigate this and prepare an IPR position.

Dirk Weiler commented Siemens investigations not to have identified any essential Qualcomm IPR relevant for the delta concept.

Ronald E. Foerster reported furthermore Qualcomm to be interested to contribute to and to discuss a concept which might simplify the IPR handling; but time to be needed to study and analyse the matter.

Rémi Thomas asked whether the Qualcomm IPR policy could be expected to be clarified until SMG#25.

Ronald E. Foerster responded Qualcomm to be looking very hard to elaborate its position in order to come to a conclusion as soon as possible. He indicated that Qualcomm will present a progress report on IPR at SMG#25.

Gunnar Sandegren and Alan Cox expressed the view that, in any case, Qualcomm has to apply the ETSI IPR policy.

It was concluded that, on IPR questions, ETSI/SMG cannot go further than the ETSI IPR policy defines; further IPR arrangements have to be found outside of SMG, e.g., between the big commercial players.

2.2 STATUS OF CONCEPTS

Werner Mohr (Siemens) explained that, since SMG#24, discussions for consensus with the alpha concept proponents have taken place, however with no conclusion so far. He announced further information to become available during SMG#24bis.

Josef Huber indicated Tdoc SMG 19/98, *TD-CDMA (delta), the true global solution for multimedia services*, source Alcatel, Bosch, Italtel, Motorola, Nortel, Siemens and Sony, to contain relevant results on the UTRA definition.

Mikael Gudmundson presented Tdoc SMG 6/9, *Enhancements of the WCDMA concept by the introduction of key aspects from the TD/CDMA concept*, source: Ericsson, Nokia, NTT DoCoMo, NEC, Fujitsu, Matsushita (Panasonic), Mitsubishi Electric.

This paper outlines the introduction of a TDMA component to WCDMA/TDD in order to improve the capabilities for uncoordinated operation and the possibility to use optional joint-detection for WCDMA/TDD.

Andy Wilton presented Tdoc SMG 14/98, *Merging the Alpha and Delta Proposals on UTRA*, source Motorola, analysing the proposal of an enhanced Alpha concept made by a group of manufacturers supporting WCDMA.

Andrew Bell, NEC, argued the criteria of Tdoc SMG 14/98 not to be those agreed in the UTRA definition process.

Peter Adams presented Tdoc SMG 2/98, *In support of W-CDMA for UMTS*, source BT. The paper supports the selection of the alpha group, reasoning it to have the highest potential to become a global standard; it proposes that, if SMG couldn't decide on the UTRA concept, the GA should take the decision.

Several speakers stated that according to the ETSI rules, a decision in this matter can only be transferred to GA on decision of SMG, also that SMG#24 had a voting participation as a GA, whence a different situation in the GA not to be likely.

Bengt Nordström presented Tdoc SMG 16/98, *GSM Network Operators in Asia Pacific Express Support for Wideband CDMA Based on GSM Platform*, source: 16 Operators in Asia Pacific, supporting the alpha concept.

Josef Huber interpreted the opinion of 16 out of 84 operators in Asia Pacific as a minority. Paul Simmons argued Asia Pacific operators to want a single solution, but to be neutral to the solution (alpha or delta) itself.

Jean Pierre Charles presented Tdoc SMG 17/98, source France Télécom, SFR, T Mobil, Deutsche Telekom, Cegetel, E-Plus Mobilfunk. The document notes ongoing work for a common compromise on the UMTS standards and actions to solve the IPR issue. It requests a further period of eight weeks in order to give sufficient time to the proponents to reach an acceptable compromise for a common global standard and a clear IPR situation. The position was supported by Didier Chauveau on behalf of ART and Juan Antonio Moreno on behalf of Telefónica. This proposal did not find consensus.

Scott Fox presented Tdoc SMG 20/98, *Requirements for a single global UTRA standard*, source BellSouth Mobility/GSM North America, arguing the alpha and delta concept to have the potential to meet the requirements and asking proponents to continue work on their concept in order to fulfil the requirements.

Alistair Urie presented Tdoc SMG 18/98, *Cordless Telephony Support (CTS) through UMTS Comparison of solutions based on TD-CDMA and on WB-CDMA*, source Alcatel, seeing advantages of the delta group in cordless telephony systems applications.

Kiyoyuki Tsujimura presented Tdoc SMG 12/98, *NTT DOCOMO'S VIEWPOINTS ON THE NEXT-GENERATION MOBILE COMMUNICATIONS SYSTEM*, source NTT DoCoMo, emphasizing the needs for mobile multi-media services in the 3rd generation mobile systems and recommending the alpha concept as the best solution.

Steven Goode presented Tdoc SMG 15/98, *Cost, Power, and Size of TD-CDMA Terminals over WB-CDMA Terminals for Dual-Mode, High Mobility Cellular Environments*, source Motorola, seeing advantages in cost, power and size for dual mode terminals with a delta component against dual mode terminals with an alpha component.

Further points like guard bands and minimum bandwidth necessary for operation were discussed in a controversial manner without conclusions.

2.3 RESULTS OF THE VOTING

Bernd Eylert, Chairman of the UMTS Forum Operators Group, informed SMG#24bis that he had asked the Operators Group members - as initiated by some operators - whether they would agree to postpone the weighted individual voting in order to reach a consensus supported by all parties involved; twenty Operators replied, of whom 9 were in favour of a postponement as described above and 11 were in favour of a definite decision to be taken at SMG#24bis.

As described in Tdoc SMG 1157/97, a weighted voting took place on the following question:

“The full members of ETSI which are attending SMG are requested to indicate by their vote what technical solution among the proposed concepts alpha, beta, gamma and delta they want to chose for UTRA.”

Background: It is the understanding of SMG that by deciding to base the UMTS Terrestrial Radio Access on a given concept, SMG approves the summary of the system description for that concept. This means that the further refinement of the selected concept is done with reference hereto. Meaning that changes in order to improve the concept shall be justified relative to the concept described in the summary system description.

The documentation for the four concepts in question can be found in the following documents provided to SMG:

- For the α -concept: Tdoc SMG 903/97
- For the β -concept: Tdoc SMG 894/97
- For the γ -concept: Tdoc SMG 900/97
- For the δ -concept: Tdoc SMG 897/97”

Result of the voting:

198 members voted.

1523 weighted votes expressed an opinion (= did not vote for abstention).

• Alpha:	61.1 %
• Beta:	0 %
• Gamma:	0.2 %
• Delta:	38.7 %

In these percentages, abstentions not counted.

163 weights voted for abstention.

2.4 PROPOSALS FOR CONSENSUS

Walter Konhäuser presented Tdoc SMG 29/98, *Proposal for a Consensus Decision on UTRA*, source Alcatel, Bosch, Ericsson, Italtel, Motorola, Nokia, Nortel, Siemens, SONY.

Gunnar Sandegren informed that the consensus proposal had been further discussed with more companies. The revised document with these additional sources in Tdoc SMG 32/98, source Alcatel, Bosch, Cellnet, Deutsche Telekom, Ericsson, France Telecom, Fujitsu, Italtel, Mannesmann Mobilfunk, Matsushita (Panasonic), Mitsubishi Electric, Motorola, NEC, Nokia, Nortel, NTT DoCoMo, Siemens, SONY, Telia, TIM, T-Mobil, Vodafone. (The document is included as Annex 6 of this report with additional source companies.)

It was agreed by SMG#24bis to proceed as follows:

- Comments and clarifications on the consensus proposal
- a break of the meeting to allow delegates to contact their companies

- agreement on a consensus.

Comments and Clarifications:

Tony Wiener clarified that GSM in the paper means the whole family, including DCS 1800 and PCS 1900.

Hans Hauser commented a possible evolution to be that FDD only equipment would come to the market (terminals and base stations).

Silvano Candeo indicated that Italian PT Ministry supports Tdoc SMG 29/98.

Gunnar Sandegren clarified that changes relating to requirements should not be agreed at plenary if an already agreed document, under change control, exists. The usual change procedures should apply.

David Barnes on behalf of DTI expressed support for the proposal, expressing some concerns on a possible fragmentation and proposing that the whole proposal should be forwarded for global application.

Alistair Urie emphasized that by this proposed consensus now one system for UTRA has been identified.

Werner Wiedermann stated on behalf of Post and Telekom Austria AG to abstain at a decision to the proposed agreement because of the unsolved third party IPR situation and possible additional costs due to the implementation of two different technologies for UMTS.

Peter Adams stated on behalf of BT:

“BT welcomes the prospect of an agreement in principle at SMG#24bis on UTRA and accepts the compromise proposed in Tdoc SMG 32/98 as the agreed way forward. BT notes that the global roaming requirements is safeguarded through the use on WCDMA in the FDD bands at least.”

Raul Bruzzone stated on behalf of Philips Consumer Communications:

“Philips Consumer Communications expressed concerns about some expected IPR positions not yet being submitted and about possible technical consequences of high level technical compromises. These are further elaborated in Tdoc SMG 36/98.”

Chris Caviglioli stated on behalf of Analog Devices:

“Analog Devices enthusiastically welcomes this convergence for a world-wide solution and looks forward to assisting in the technical clarifications, especially in the area of dual-mode terminals, software radio and harmonization with the GSM family. We also look forward to the frequency band definitions in actual commercial practice throughout the world.”

Herbert Jost stated on behalf of Swisscom:

“Swisscom welcomes the principal spirit of the consensus as proposed in Tdoc SMG 29/98. However, the proposed schemes for FDD and TDD mode

must be used only as a guideline for a refinement and optimization process performed by SMG2 with the goal of low cost and high performance terminals and infrastructure.”

Wolfgang Ptacek stated on behalf of T-Mobil:

“In section 3 under ‘consensus proposal’, FDD/TDD dual mode operation is listed as an objective.

There may be countries with only paired spectra or with only very small TDD portions of the total spectrum granted to an operator. In such case, there may be sooner or later a temptation to employ *FDD mode only* UMTS mobiles and UMTS BSS equipment in order to save costs and to reduce complexity. Although international roaming clearly would suffer from making use of FDD mode only UMTS mobiles the issue of having *one* kind of UMTS mobile only and *one* kind of UMTS BSS equipment should be strongly considered when detailing the UTRA proposal.”

2.5 CONSENSUS BUILDING

Niels Peter Skov Andersen presented the scope of the intended agreement: Tdoc SMG 29/98 - when and if approved - would set the basis for future development of UTRA performed by SMG2 together with the already approved SMG documents which are under Change Control: High level requirements, Procedure for the UTRA definition, UMTS 21.01, UMTS 30.03 (Evaluation Criteria).

SMG#24bis agreed with this understanding.

Tdoc SMG 39/98 was approved by SMG#24bis, it is Annex 5 of this report.

Kiyoyuki Tsujimura on behalf of NTT DoCoMo stated that NTT DoCoMo supports this decision as the basis for development of IMT-2000.

The further contents of Annex 6 of this report (revision of Tdoc SMG 32/98 and Tdoc SMG 38/98, the revision consisting in additional source companies of the paper) were noted.

In particular, SMG#24bis acknowledged the commitment of the companies acting as source of the paper for taking the lead in providing the basis for a reasonable IPR situation for UTRA. SMG requested all members to contribute to that goal:

This commitment reads

“4. The above listed companies will work together to provide agreed guidelines for the handling of IPRs essential to the UTRA specification which result in reasonable cost for the manufacturers. This is proposed to limit the liability of the proposed standard to excessive IP demands which make access to the standard not commercially viable.”

The companies signing as source of this paper will give a progress report on IPR questions to SMG#25.

Akio Sasaki, Chairman of the ARIB Co-ordination Group, stated that on Monday, 2nd February, 1998, a meeting of ARIB Co-ordination Group Meeting will take place. He will present Tdoc SMG 39/98 to that group for approval as a basis for future work on the IMT-2000 radio access based on a close co-operation with SMG.

Furthermore, SMG#24bis approved the following:

“The way forward will in addition include the following items :

- It is agreed that the UTRA should support operation in a spectrum allocation as small as 2 x 5 MHz.
- UTRA should also be designed for broader spectrum allocation to satisfy the capacity requirements and service requirements outlined by the UMTS Forum, GSM MoU and SMG1

Based on Tdoc 32/98 and on the items listed hereabove SMG2 will present a detailed technical proposal at SMG#25.”

Thomas Beijer, Chairman of UMTS Forum, congratulated SMG, the SMG Chairman and all members, to this important achievement.

Giuseppe Rao stated on behalf of the Italian Ministry of Communications:

“The Italian Ministry of Communications expresses its satisfaction for the “consensus proposal”. Negotiations on relevant aspects are still necessary, however, the proposed solution goes in the right direction.

The Ministry wants to congratulate ETSI and all the participants.”

Ruprecht Niepold stated on behalf of the European Commission:

“The Commission services welcome the achievement of a consensus on the basic concept for the UMTS radio interface and congratulates ETSI SMG and its members for this success.

Commissioner Bangemann has personally and closely followed the work of SMG#24bis and is very satisfied with its results.

The consensus achieved by SMG#24bis is fully in line with the position expressed by the Commission in its Communication to the European Parliament and Council COM(97)513 on UMTS.

As a further element of support, the European Parliament in its plenary session of yesterday adopted a resolution supporting the development of UMTS and emphasising the need to proceed on the basis of a common, open and internationally competitive air interface.

The debate on the basic concept for the radio access for UMTS has slightly delayed the standardisation agenda as originally foreseen, but we consider that this debate was necessary to achieve a consensus which offers the best conditions for the important work ahead to define the detailed UMTS standard specifications.”

3 THE WAY FORWARD

3.1 REPORT ON FUTURE ORGANISATION OF STANDARDISATION

Fred Hillebrand presented Tdoc SMG 9/98, the **progress report to SMG#24bis on future organisation of GSM and UMTS standardisation.**

It was clarified that the “XXX Forum” would be an ETSI partnership project and have similar partnership contracts with ARIB, T1P1, RITT etc. (question of Albert Dorgelo).

It was clarified that the allocation of spectrum is not seen as a matter of the new group.

On questions from Alan Hadden, it was clarified that GSM-UMTS is the term used by the ETSI GMM report: In the ETSI structure at present, the development of an GSM evolution UMTS Core network (GSM-UMTS Core network) is in the responsibility of SMG, whereas NA(6) is responsible for the ISDN evolution UMTS Core Network (ISDN-UMTS Core Network).

Relations with the UMTS Forum - shown in the relations diagram on the last page of the progress report - will be discussed with the UMTS Forum within the mission.

Jean Gabriel Rémy, SFR and Peter Adams, BT commented that this new group could be seen as a rival to the ITU, given its global nature.

Alan Cox reported that co-ordination with NA6 on the UMTS Core Network concepts is going on (after an uneasy start).

It was clarified that the organisation would have an independent financial organisation, as described in the ETSI rules.

The part of name “Forum” could suggest unintended conflicts in scope with the UMTS Forum (Chris Wildey).

It was commented that Swiss law would not be the only possibility for the Association.

The progress report sees difficulties to give satisfying participation and influence to non-European companies by the proposed extension of voting rights for associate members (with its restrictions), in particular two problems with the new proposal for associate’s voting rights: Matters relevant for European Norms to be excepted from Associate members voting; full members’ only decision when 71% are not reached. It was requested that the final report at SMG#25 should give a complete analysis on this matter.

David Barnes commented Fixed/Mobile Convergence as important to be guaranteed in the development.

David Barnes commented that exact financial plans would be needed in time. Answer: Detailed papers have been forwarded to Per Björndahl’s task force on PT SMG funding for a detailed analysis.

Alistair Urie commented that the STC chairs should not ex officio be members of the Advisory Group. He proposed to create the advisory group immediately.

It was clarified that voting rights would be with the members of the new organisation, the links marked with a “P” in the structure diagram mean partnership contracts. (Question Rémi Thomas).

Gerry Lawrence requested a future organisation to stay strictly in the limits set by the definition of an ETSI Partnership Project in the ETSI rules.

Chris Caviglioli expressed concerns on more overhead for co-ordination in such a new organisation. He saw an alternative way by giving SMG more autonomy in ETSI. Alan Cox responded that such special rules also require a new organisation form, because ETSI rules could not just state rules and an exception case, namely SMG. Gunnar Sandegren commented that the overhead would be reduced by creation of the group, because global agreements are required and are easier to provide in a single specification body than by communication and common agreement in different bodies.

Alan Cox commented that it should be made clearer that the new group would not be a standards organisation itself. The objective of the group should be the production of commonly available specifications. Standardisation Institutions like ETSI, ANSI, ARIB/TTC and RITT could take these specifications for inclusion into their standards.

Paola Tonelli presented further objectives for the group:

- Common specifications and global interoperability
- conflict resolution
- efficiency of standardisation, cost, speed
- reduction of third generation development costs to manufacturers
- regionally unbiased,
- focused on operator/customer needs
- membership to all.

She argued that other groups like IETF, ISO, Frame Relay Forum, ATM Forum might be interested in co-operation agreements and announced that Airtouch is volunteering to assist establishing the contacts to IETF.

3.2 FUTURE UTRA DEVELOPMENT

(This part of the meeting was chaired by Alan Cox.)

Niels Peter Skov Andersen emphasized, that based on the broad avenue determined by SMG#24bis, all interested parties should sit together and continue work.

In week 10, SMG2 will organise a workshop, as a joint workshop with the American, Japanese and Chinese colleagues, with open participation of any interested party on

- the refinement and optimisation of the UTRA
- the complete architecture of the UTRA BSS.

Akio Sasaki on behalf of ARIB supported the proposal.

It was clarified that participation would be open, in particular for organisations like TIA and ITU would be included.

Further ideas for an optimum organisation of the workshop should be discussed with the SMG2 Chairman, Niels Peter Skov Andersen.

Niels Peter Skov Andersen emphasized that the scope of SMG2 on the UTRA includes the complete UMTS BSS part, and is much wider than the scope in ITU-R.

Peter Adams presented Tdoc SMG 24/98, *FAMILY CONCEPT WITHIN IMT-2000*, Source Orange/BT/DTI. The document was noted by SMG#24bis.

4 GSM AND UMTS PROGRAM MANAGEMENT (NECESSARY DECISIONS)

SMG#24bis approved the liaison statement to WAP Consortium in Tdoc SMG 4/98.

No further decisions by SMG#24bis were requested.

Annex 1: List of attendees to SMG#24bis

Name	Company
ADACHI Fumiyuki	NTT DOCOMO
ADAMS Peter.M.	BRITISH TELECOM
AHAVA Heikki	NOKIA CORPORATION
AHNE Franz	DAKFCBNF e.v.
ALARD Michel	WAVECOM
ALDIS James	ASCOM SYSTEC
ALOS Rafael	SAGEM
AMIR-ALIKHANI Hamid	SONY TELECOM
AMMER Gerhard	LUCENT TECHNOLOGIES
AMTOFT Torben	HAGENUK TELECOM (CETELCO)
ANDERSEN Niels Peter Skov	TELE DANMARK MOBIL A/S NMR
ANDERSEN Peter Claus	DANSK MOBILTELEFON A/S
ANDRIEU Dominique	ROCKWELL TELECOMMUNICATIONS
ANSALDI Renato	ITALTEL
ANTWEILER Markus	SYNOPSYS DESIGN & CONSULTING
ARGYROKASTRITIS Pantelis	HELLENIC TELECOMMUNICATIONS ORGANIZATION
ASSOR Jean-Luc	BOUYGUES TELECOM
AUSLANDER Edgar	TEXAS INSTRUMENTS FRANCE
BARDOV Patricia	SIEMENS
BARNES David	DTI
BASTON Johannes	NEC ELECTRONICS (Europe)
BEIJER Thomas	TELIA MOBILTEL AB
BELL Andy	NEC TECHNOLOGIES (UK) LTD
BELLIER Eric	MET COMMUNICATION
BENNINK Rob	KPN/PTT TELECOM
BERGERON Eric	TELESYSTEMS INTERNATIONAL WIRELESS
BERGMANN Ansgar	ETSI/PT SMG
BERGS Hans-Joachim	ALCATEL SEL
BERNARD André	FRANCE TELECOM MOBILES
BERTHOUMIEUX Didier	ALCATEL CIT
BIRON Thibault	MET COMMUTATION
BISHOP Craig	SAMSUNG ELECTRONIC RESEARCH INS.
BJÖRNDAHL Per	ERICSSON RADIO SYSTEMS AB
BLANDEAU Valérie	SIEMENS
BLANDEL Christophe	PRECISION METAL LTD
BLUNSCHI August	ASCOM
BOCAERT Bruno	VLSI TECHNOLOGY
BOLTZ Robert	SIEMENS
BORLENGHI Laura	ITALTEL SPA
BROUSSE Louis	MOTOROLA SA
BRUZZONE Raul	PHILIPS CONSUMER COMMUNICATIONS
BUMANN Peter	BOSCH TELECOM GmbH
CABRERA Inaki	AIRTEL MOVIL SA
CANDEO Silvano	MINISTERO P.T.
CASEIRO Carlos	TELECEL SA
CASTELLANOS Carlos	ALCATEL ESPANA SA
CASTRO Jonathan	CSEM
CAVIGIOLI Chris	ANALOG DEVICES
CHANDLER Colin	MATSUSHITA COMMUNICATION INDUSTRIAL LTD
CHANTELOU Olivier	TRT LUCENT TECHNOLOGIES
CHARBONNIER Alain	FRANCE TELECOM
CHARLES Jean Pierre	FRANCE TELECOM
CHAUVEAU Didier	ART

Name	Company
COCCORDANO Hervé	NOKIA FRANCE
COHEN Jean-Claude	ALCATEL CIT
COOPER David	NEC TECHNOLOGIES (UK) LTD
CORBETT Christopher J.	ETSI
COSGRAVE Bridget	ETSI/Directorate
COX Alan	VODAFONE LTD
CRICHTON Paul	MOTOROLA
CRUCHANT Laurent	ALCATEL MOBILE COMMUNICATION
D'ANTONIO Luca	TELECOM ITALIA MOBILE
D'AVELLA Renato	ITALTEL SpA
DAHLMAN Erik	ERICSSON
DAVIDSSON Pamela	NATIONAL POST & TELECOM
DAY Brian	NORTEL
DEFOREIT Laurence	NORTEL
DEL RICCO Renato	ELSACOM SpA
DETTNER Harald	SIEMENS AG
DIETRICH Denise	MET COMMUTATION
DIJKSTRA Syba	PHILIPS COMMUNICATION SYSTEMS
DJIDI Kamel	BOUYGUES TELECOM
DOIG Ian	ETSI/ECS Dept
DOLDER Hanspeter	OFCOM
DOMEIERS Horst	MANNESMANN MOBILFUNK
DONAT Peter	FEEI
DORGELO Albert J.G.	LUCENT TECHNOLOGIES EMEA B.V
DORNSTETTER Jean-Louis	NORTEL
DUPUIS Philippe	SPER
ERIKSSON Leif	ALLGON AB SWEDEN
ETESSE Loïc	ALCATEL
EYLERT Bernhard	DETEMOBIL GMBH
FAGGION Nadège	ALCATEL
FAUCONNIER Denis	NORTEL
FENYVES Alessandro	ITALTEL
FLANN Jeremy	HARRIS SEMICONDUCTOR
FLYNN Kevin	ETSI
FOERSTER Ronald E.	QUALCOMM EUROPE SARL
FOX Scott	BELLSOUTH MOBILITY DCS
FOXMAN Arne	TELEDANMARK M/S
FREEMAN David	MOTOROLA
FRITZE Stefan	ROBERT BOSCH GmbH
FUKUDA Eisuke	FUJITSU EUROPE TELECOM
GAGNARD Hervé	WAVECOM
GALLMANN Arnd	TOSHIBA EUROPE GmbH
GARNIER Pierre	TEXAS INSTRUMENTS
GATTONI Julien	SGS-THOMSON Microelectronics NV
GEORGOPOULOS Ioannis	COSMOTEL S.A.
GERARD Georges	SONY
GEUENS Leopold	SIEMENS ATEA NV
GIAMOUMIS Alex	ATMEL
GIRARD Laurent	FRANCE TELECOM/CNET
GOODE Steven	MOTOROLA
GOURIOU Patrick	MET COMMUNICATION
GRANZOW Wolfgang	ERICSSON EUROLAB DEUTSCHLAND
GRASSOT Francois	ECTEL TMS
GRIEVE David	HEWLETT PACKARD LTD
GRYTHE Knut	SINTEF TELECOM AND INFORMATICS

Name	Company
GUDMUNDSON Mikael	ERICSSON RADIO SYSTEMS AB
GUTHRIE Mary	HITACHI EUROPE LTD
HADDEN Alan	UMTS FORUM
HAIDER Simon	MITSUBISHI ELECTRIC
HALL Ken	CELLNET
HALTTUNEN Simo	MET COMMUNICATION
HAUGOMMARD Sébastien	MET COMMUTATION
HAUSER Hans	DeTeMobil GmbH
HENG Yong C.	MOTOROLA
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HUBER Josef F.	SIEMENS AG
HUDOBIVNIK Alojz	ISKRATEL
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IBBOTSON Harry	MOTOROLA
IKURA Masaharu	NTT DO CO MO
ISSENMANN Edouard	ALCATEL CIT
JARVELA Teuvo	NOKIA MOBILE PHONES
JENNI Christian	ERICSSON AG
JOHANSSON Ari	POST ANDTELECOM ICELAND LTD
JOHANSSON Anders	RADIO DESIGN AB
JOST Herbert	SWISSCOM
KANDL Françoise	IBM FRANCE
KANERVA Mikko	NOKIA TELECOMMUNICATIONS
KAR Radivoj	MITSUBISHI ELECTRIC
KASAPIDIS Makis	MATSUSHITA COMMUNICATION INDUSTRIAL UK
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LUCAS Philippe	SFR/GIE CEGETEL
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MADSEN Ole	BOSCH TELECOM DANMARK A/S
MAHE Florence	MET COMMUNICATION
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MALMBAK Per	MOTOROLA
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MATSUO Sakae	KENWOOD ELECTRONICS TECHNOLOGIES
MAUCKSCH Thomas	RODHE & SCHWARZ
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RAPELI Juha	PHILIPS CONSUMER COMMUNICATIONS
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REMY Jean Gabriel	SFR
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TRICHEN Graham	MOTOROLA
UDDENFELDT Jan	ERICSSON RADIO SYSTEMS AB
UGLANO Jon	NETCOM GSM AS
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WEINER Stefan	SCIENTIFIC CONSULTING
WHITE Phil	VODAFONE LTD
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WIENER Anthony	ONE-2-ONE
WIKLUND Johan	ERICSSON RADIO SYSTEMS
WILDEY Chris	NOKIA MOBILE PHONES
WILKINSON Karen	ERICSSON OMC LTD
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WILTON Andy	MOTOROLA LTD
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YABUSAKI Masami	NTT DoCoMo
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YURDAKUL Sami	MET COMMUNICATION
ZHANG Huayan	ERICSSON (CHINA) COMPANY LTD.

Annex 2: SMG#24 Bis Tdoc List

NUMBER	TITLE	SOURCE	AGENDA ITEM	REPLACED BY TDOC
P-98-0001	Chairman's Report	TC SMG Chairman	1	
P-98-0002	UTRA decision in favour of W-CDMA	Peter M Adams, BT	3	
P-98-0003	Outline Statement of Intent of Coordinating IPR Policy about IMT-2000 Standard with ETSI	ARIB	3	
P-98-0004	Proposed LS to WAP Consortium on Progress of MExE work in SMG4	SMG	5	
P-98-0005	Third Generation Mobile Telecommunications Standard (Response to a questionnaire from GSM MoU)	LibanCell	3	
P-98-0006	Enhancements of the WCDMA concept by the introduction of key aspects from the TD/CDMA concept	Ericsson, Nokia, NTT DoCoMo, NEC, Fujitsu, Matsushita (Panasonic), Mitsubishi Electric	3	
P-98-0007	IPR Licensing Policy Statement for WCDMA	Ericsson, Nokia, NTT DoCoMo, NEC, Fujitsu, Matsushita (Panasonic), Mitsubishi Electric	3	
P-98-0008	IMT-2000 co-ordination (Revision of TD 1159/97)	TC SMG Chairman		
P-98-0009	Future Organization of GSM and UMTS Standardization	TC SMG Chairman	4	P-98-0042
P-98-0010	Highlights '97 and Focus '98	TC SMG Chairman	1	
P-98-0011	Agenda and Schedule SMG#24 Bis	TC SMG Chairman	2	
P-98-0012	NTT DoCoMo's Viewpoints on the Next-Generation Mobile Communications System	NTT DoCoMo	4	
P-98-0013	ETSI Full Members, Membership List	I. Doig, ETSI ECS Dept	4	
P-98-0014	Merging the Alpha and Delta Proposals on UTRA	Motorola	3	
P-98-0015	Cost, Power and Size Advantages of TD-CDMA Terminals over WB-CDMA Terminals for Dual-Mode, High Mobility Cellular Environments	Motorola	3	
P-98-0016	GSM Network Operators in Asia Pacific Express Support for Wideband CDMA based on GSM Platform	16 Operators from Asia Pacific	3	
P-98-0017	Vote on UTRA	France Telecom, T-Mobil, Deutsche Telekom, SFR, Cegetel, E-Plus Mobilfunk	3	
P-98-0018	Cordless Telephony Support (CTS) through UMTS Comparison of solutions based on TD-CDMA and on WB-CDMA	Alcatel	3	

NUMBER	TITLE	SOURCE	AGENDA ITEM	REPLACED BY TDOC
P-98-0019	TD-TDMA (delta), the true global solution for multimedia services	Alcatel, Bosch, Italtel, Motorola, Nortel, Siemens and Sony	3	
P-98-0020	Requirements for a single global UTRA standard	Bellsouth Mobility/ GSM North America		
P-98-0021	Report on Essential IPRs declared in relation to the work of SMG#24	Hélène Lafferre	3	
P-98-0022	Draft Declaration on UMTS on the occasion of the SMG #24Bis (Paris 28-29 January 1998) by the Representative of the services of the Commission (Counsellor to ETSI)	Commission	3	
P-98-0023	Motorola IP Policy for UMTS	Motorola	3	
P-98-0024	Family Concept within IMT-2000	Orange/BT/DTI	3	
P-98-0025	Hosting next SMG3 meeting	SMG3 Chair	5	
P-98-0026	Results of the UTRA vote at SMG #24 bis held on 28 January 1998	ETSI	3	
P-98-0027	Press Release	ETSI	3	
P-98-0028	Call for Experts for STFs 12(GSM), 83 (UMTS), 80V (GPRS) - CL 1840	ETSI		
P-98-0029	Proposal for a Consensus Decision on UTRA	Alcatel, Bosch, Ericsson, Italtel, Motorola, Nokia, Nortel, Siemens, Sony	3	
P-98-0030	Order form for SMG#24 CD-ROM	ETSI		
P-98-0031	Conditions for merging Alpha (WCDMA) and Delta (CD/TDMA) concepts for UTRA	Philips Consumer communications (PCC)	3	
P-98-0032	Proposal for a Consensus Decision on UTRA	22 Companies (see Tdoc)	3	P-98-0038
P-98-0033	UMTS 30.01 v.3.2.0 - Positions on UMTS agreed by SMG - Part 10	ETSI	3	
P-98-0034	UMTS 21.01 v.3.0.1 Requirements for the UMTS Terrestrial Radio Access System (UTRA) - For information	ETSI	3	
P-98-0035	UMTS 30.01 v.3.2.0 - Positions on UMTS agreed by SMG - Annex 2	ETSI	3	
P-98-0036	Consensus for UTRA concept	Philips Consumer Communications	3	
P-98-0037	Consensus Decision on UTRA	ETSI SMG	3	P-98-0039
P-98-0038	Proposal for a Consensus Decision on UTRA (Revision of TD 32/98)	24 Companies (see Tdoc)	3	
P-98-0039	Consensus Decision on UTRA (Revision of TD 37/98)	ETSI SMG	3	
P-98-0040	Press Release	ETSI	3	
P-98-0041	Not allocated			
P-98-0042	Future Organization of GSM and UMTS Standardization (revision of TD 9/98)	TC SMG Chairman	4	



**ETSI SMG
Meeting n°24bis
Paris, 28th - 29th January, 1998**

**ETSI/SMG (98) 1 Annex 3
(Tdoc SMG 27/98)**

Paris, France, 28 January 1998

PRESS RELEASE

Results from the ETSI vote on the choice of radio interface for the third generation system UMTS (Universal Mobile Telecommunications System)

On the first day of the ETSI SMG 24 bis meeting that is being held on 28-29 January in Paris, France, an individual weighted vote took place on the selection of a radio interface for the third generation mobile system called UMTS (Universal Mobile Telecommunications System). 198 members voted. The results are as follows:

Alpha concept (W-CDMA)	61.1%
Beta concept	0%
Gamma concept (Wideband TDMA)	0.2%
Delta concept (TD-CDMA)	38.7%

Because a 71% majority required by the ETSI Technical Working Procedures was not reached, discussions will continue tomorrow. A press release will be issued on 29th January outlining the final results of the meeting. It will also be read at a press briefing at 17h00 on 29 January in Paris.

-end-

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ETSI SMG
Meeting n°24bis
Paris, 28th - 29th January, 1998

ETSI/SMG (98) 1 Annex 4

Paris, France 29 January 1998

Press Release

Agreement reached on radio interface for third generation mobile system, UMTS (Universal Mobile Telecommunications System)

On the second day of the ETSI SMG 24 bis meeting which was held on 28-29 January 1998 in Paris, France, an agreement was reached by consensus on the radio interface for the third generation mobile system, UMTS. The solution, called UTRA, draws on both W-CDMA and TD-CDMA technologies.

This decision follows the inconclusive vote that was conducted 28 January where opinions were divided between two principal technologies, WCDMA and TD-CDMA.

The 316 delegates attending the SMG 24 bis meeting representing, telecoms manufacturers, operators, administrations, and research bodies agreed on the following technical solution:

- In the paired band (FDD - Frequency Division Duplex) of UMTS the system adopts the radio access technique formerly proposed by the WCDMA group.
- In the unpaired band (TDD - Time Division Duplex) the UMTS system adopts the radio access technique proposed formerly by the TD-CDMA group.

In implementing this solution ETSI SMG members pursue, together, the specification of UMTS with the objective to provide low cost terminals, ensure the harmonization with GSM, and provide FDD/TDD dual mode operation terminals.

UTRA should also support operation in a spectrum allocation as small as 2*5 MHz. UTRA should also be designed for broader spectrum allocation to satisfy the capacity requirements and service requirements outlined by the UMTS Forum and the GSM MoU Association.

The parties that made the proposal leading to this new solution included Alcatel, Bosch, Ericsson, Fujitsu, Italtel, Matsushita(Panasonic), Mitsubishi Electric, Motorola, NEC, Nokia, Nortel, Siemens and SONY as well as Analog Devices, Cegetel, Cellnet, CSEM/Pro Telecom, Deutsche Telekom, France Telecom, Mannesmann Mobilfunk, NTT DoCoMo, Samsung Electronics, SFR, T-Mobil, Telecom Finland, Telia, Texas Instruments, TIM, and Vodafone. These companies will work together to provide agreed guidelines for the handling of IPRs essential to the UTRA specification which result in reasonable cost for the manufacturers.

NTT DoCoMo the leading Japanese cellular network operator participated in the meeting as an observer. They welcomed the solution reached and expressed their full support.

The agreed solution offers a competitive continuation for GSM evolution to UMTS and will position UMTS as a leading member of the IMT-2000 family of systems recommendations being developed in the ITU.

- End-

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Title: **Consensus Decision on the UTRA Concept to Be Refined by ETSI SMG2**

Source: **ETSI SMG**

Consensus Agreement

This consensus agreement contains the key elements and advantages of WCDMA and TD/CDMA, and contains the following elements:

1. In the paired band we adopt the radio access technique proposed by the ETSI Alpha group, that is WCDMA (Wideband Code Division Multiple Access), Tdoc SMG 903/97.
2. In the unpaired band, we adopt the radio access technique proposed by the ETSI Delta group, that is TD/CDMA (Time Division/Code Division Multiple Access), Tdoc SMG 897/97.
3. In the process in selecting the technical parameters the following shall be the objectives:
 - Low cost terminal
 - Harmonization with GSM
 - FDD/TDD dual mode operation
 - Fit into 2 * 5 MHz spectrum allocation

Note:

NTT DoCoMo participated as an observer in SMG#24bis and expressed support for ETSI SMG decision.

Title: Proposal for a Consensus Decision on UTRA

Source: Alcatel, Analog Devices, Bosch, Cellnet, Deutsche Telekom, Ericsson, France Telecom, Fujitsu, Italtel, Mannesmann Mobilfunk, Matsushita (Panasonic), Mitsubishi Electric, Motorola, NEC, Nokia, Nortel, NTT DoCoMo, Siemens, SONY, Telia, TIM, T-Mobil, Vodafone, [further companies]

Introduction:

The above companies acknowledge the importance to take into account all the technology developments on UTRA proposals in the best possible manner to arrive at a good proposal.

The goal of this proposal is to offer a competitive long term solution for GSM evolution to UMTS and also to ensure that UMTS will become the leading member of the IMT-2000 family of systems. The companies will work together in order to ensure that all ETSI and ITU time lines are met. We also welcome other ETSI members to join us to make UMTS such a success story as GSM has been.

Consensus Proposal:

This proposal which contains the key elements and advantages of WCDMA and TD/CDMA, and contains the following elements:

1. In the paired band we adopt the radio access technique proposed by the ETSI Alpha group, that is WCDMA (Wideband Code Division Multiple Access), Tdoc SMG 903/97.
2. In the unpaired band, we adopt the radio access technique proposed by the ETSI Delta group, that is TD/CDMA (Time Division/Code Division Multiple Access), Tdoc SMG 897/97.
3. In the process in selecting the technical parameters the following shall be the objectives:
 - Low cost terminal
 - Harmonization with GSM
 - FDD/TDD dual mode operation
 - Fit into 2 * 5 MHz spectrum allocation
4. The above listed companies will work together to provide agreed guidelines for the handling of IPRs essential to the UTRA specification which result in reasonable cost for the manufacturers. This is proposed to limit the liability of the proposed standard to excessive IP demands which make access to the standard not commercially viable

Proposal for a decision:

The above companies put strong emphasis on the need to arrive at a good, conclusive, decision at this meeting. Therefore, , we propose SMG#24bis to adopt this proposal.