

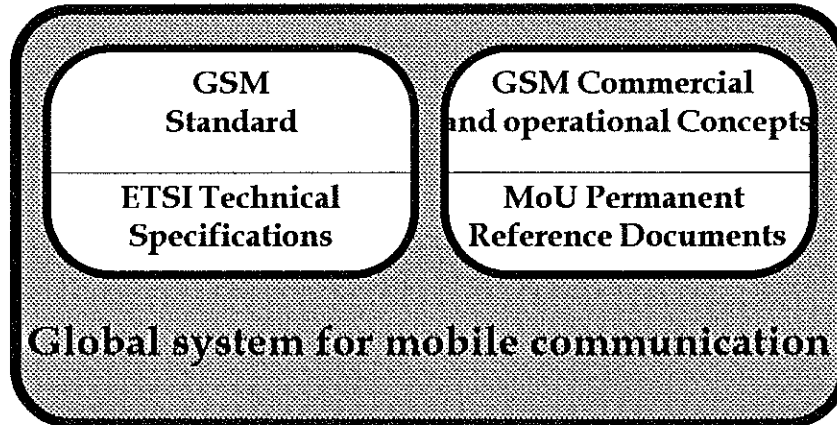
(1) Overview of the GSM MoU Permanent Reference Documents

**Friedhelm Hillebrand
GSM MoU Group
Technical Executive
3 November 1994**

Unique Support for GSM MoU Signatories

- **Equipment delivered by many sources: mobile stations, infrastructure, test systems, tools**
- **Type approval for mobile stations phase 1 in place, phase 2 under development**
- **Complete system and standard produced, maintained and enhanced by ETSI SMG**
- **Commercial and operational procedures produced, maintained and enhanced by GSM MoU Group**
- **Functioning intensive cooperation of network operators and regulators**

Purpose of Permanent Reference Documents (PRD)



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General PRD AA series

- Memorandum of Understanding on the implementation of GSM of 1987
- MoU Addendum of 1991
- Terms of Reference of Working Groups
- Rules and Procedures of the GSM MoU Group
- International Roaming Agreement
- There are 14 AA series PRD

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The GSM MoU of 1987

- The purpose of the GSM MoU is to provide a framework for all the necessary means to be taken by the Signatories together to ensure the opening of commercial GSM service in their respective countries.
- The MoU may be signed by any telecommunications administration and/or public telecommunications operator authorised in his country to provide public GSM services.

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The GSM MoU of 1987

- Commitment to actively support GSM standardization work
- Support the standardization of open (non proprietary) interfaces.
- Operational network shall be procured based on the GSM technical specifications.
- Competition shall be encouraged in each of the markets for
 - mobile equipments,
 - base station subsystems and
 - switching subsystems

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The GSM MoU of 1987

- To the extent necessary to ensure the viability of the GSM system the signatories shall coordinate their policies on Intellectual Property Rights as far as possible.
- The signatories shall make every effort to arrive at decisions in the GSM standardization groups.
- The signatories shall co-operate in the promotion of the GSM standard as a worldwide standard.

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The Addendum to the GSM MoU of 1991

- Purpose: to provide a basis for the continuation and expansion of the cooperation between signatories and to provide a basis for continued and wider adherence
 - to countries outside CEPT and
 - network opening after 1991
- Network operators are committed to open a commercial GSM service within 2 years from signing the MoU and the Addendum.

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GSM MoU Organization Overview

- **Advisory Board: Former Chairmen**
- **Chairman, Deputy Chairman**
- **Plenary Meeting: Worldwide scope**
- **Interest Groups: Responsible for regional or special interests**
- **Working Groups: Responsible for certain subjects for the whole MoU**
- **Technical Executives Office: Assisting the Chairman and Working/Interest Groups**
- **Permanent Secretariat: MoU Administration**

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Structure of GSM MoU Interest Groups

- **Interest Group Chairmen are MoU Vice-Chairmen**
- **Regional Interest Groups:**
 - **Asia Pacific GSM Cooperative: founded in 1992**
 - **European Interest Group: founded in Oct. 94**
 - **Near East Vice-Chairman: appointed in Oct. 94**
- **Special Interest Groups:**
 - **USA PCS Vice-Chairman: appointed in Oct. 94**
 - **PCN Vice-Chairman: appointed in Oct. 94**

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GSM MoU Working Groups

- **MP: Marketing planning**
- **SERG: Services experts rapporteurs group**
- **BARG: Billing and accounting rapporteurs group**
- **TADIG: Transferred account data interchange group**
- **IREG: International roaming experts group**
- **TWG: Terminal working group**
- **L&R: Legal and regulatory group**
- **SG: Security group**

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Note: It is under discussion, to integrate SERG and MP into a BD group (business development)

Marketing Planning PRD MP series

- **Corporate Identity Guide**
- **Information Video**
- **Coverage Map**
- **A Guide to Pan-European Digital Radio**
- **GSM Logo and trademark**
- **GSM Networks - System Status**
- **Roaming Guide**
- **There are 15 MP series PRD**

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Operational GSM Networks (GSM900 + DCS1800) Sept. 94

Australia :3	Italy : 1
Austria : 1	Luxembourg : 1
Belgium : 1	Morocco : 1
Denmark : 2	Netherlands : 1
Estonia : 1	New Zealand : 1
Fiji: 1	Norway : 2
Finland : 2	Portugal : 2
France : 2	Quatar : 1
Germany : 2 + 1	Singapore : 1
Greece : 2	South Africa :2
Hongkong : 2	Sweden : 3
Hungary : 2	Switzerland : 1
Iceland : 1	Turkey : 2
Indonesia : 1	United Arab Emirates :1
Iran : 1	United Kingdom : 2 + 2
ireland : 1	

Sept 94 : 50
May 94 : 40

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Major services PRD SE series

- Service Implementation Phases
- Subscription to the Services
- Licensing of Mobile Stations
- Circulation of Mobile Stations
- Collection Charges
- Security Aspects
- Handling the Equipment Identity Register
- GSM Mobile Network Codes and names
- Customer Care Procedures
- There are 18 SE series PRD

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Billing and Accounting PRD BA series

- **Charging and Accounting Principles**
- **Charging Principles for Supplementary Services**
- **Statement of User Requirements for Billing and Account Software**
- **Regulations for relationship between GSM PLMN Operators in different countries with regard to roaming subscribers**
- **Credit Terms, Vetting and Credit Control**
- **Data Clearing House Operations**
- **There are 17 BA series PRD**

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Transfer of Data PRD TD series

- **Data Record Format**
- **Transferred Account Tape Procedure**
- **Transferred Account EDI Procedure**
- **Security Model for the Transferred Account EDI Procedure**
- **Testing the Transferred Account Procedure**
- **CEIR/EIR Administration systems EDI Procedure**
- **General Scenarios for the Transferred Account Procedure**
- **There are 21 TD series PRD.**

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International Roaming technical PRD (IR series)

- **Technical Implications of the use of Optimised Routing**
- **Roaming Database, structure and updating procedures**
- **SCCP Signalling Aspects for Roaming**
- **Organization of International Roaming Tests**
- **End - to - End Functional Capability Specification for Inter - PLMN Roaming**
- **There are 6 IR series PRD.**

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Security Group PRD SG series

- **Algorithm A5 for ciphering**
 - Management and disclosure of the algorithm
 - Confidentiality and Restricted Usage Undertaking
 - Algorithm A5
 - Test Data for A5
- **Algorithm A3/A8 for authentication and cipher key generation**
 - Management and distribution of the Algorithm
 - Confidentiality and restricted Usage undertaking
 - Algorithm A3/A8
- **Distribution Policy for Algorithms**
- **There are 9 SG PRD.**

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MS and MAP Testing PRD RI and CO series

- **GSM Mobile Station Conformity Specification for Interim Type Approval (ITA)**
- **Test Specification for MS Functional Testing**
- **Conformance Test Suit for Mobile Application Part at HLR**
- **Conventions in the Use of TTCN**
- **Test Configurations**
- **Test purpose List for MAP on C/D Interface**
- **There are 2 RI Series and 30 CO Series PRD.**

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Legal and Regulatory PRD DP, TP and PR series

- **Privacy Requirements arising from the Provision of Supplementary Services within GSM including Action Lines**
- **Data privacy requirements in Billing and Accounting including Action Lines**
- **GSM Type Approval, Rules of Accreditation and Mutual Recognition of Approval**
- **Administration of the IMEIs**
- **IPR Platform**
- **There are 4 DP series, 4 TP series and 1 PR series PRD.**

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