

**Technical Specification Group Core Network**  
**Technical Specification Group Radio Access Network**  
**Technical Specification Group Terminals**  
**Technical Specification Group Services and System Aspects**  
**Meeting #13, Beijing, 18 - 27 September 2001**

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**Document for:** **CN: information**  
**RAN: information**  
**T: information**  
**SA: information**

**Agenda Item:** **CN: 11**  
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**T: 6**  
**SA: 8.9**

The table below shows all known specifications pertaining to GSM / UMTS, past and present. They are ordered by a nominal index which disregards mapping of, say, the 02.-series to 22.-series for UMTS, and to 42.-series for GSM Release 4 onwards.

The "progenitor" column seeks to provide a clue to the origins of specs of the UMTS and of the GSM Release-4 series, but should be taken as a guide only. (The progenitor column entry is automatically calculated from the spec number, and does not guarantee that the supposed progenitor actually exists or ever did so!)

In the table, a "Y" indicates that the specification in question exists for the Release indicated. A "w" indicates that the Release version did at one time exist, or was anticipated, but that it has been withdrawn.

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| 00.02 | 00.02  |               | Voice group call service study (UIC project)   | w    |      |      |      |      |      |        |        | Yes     |
| 01.00 | 01.00  |               | Working Procedures for SMG   |      |      | Y    |      | Y    | Y    |        |        | No      |
| 01.00 | 21.100 | 01.00         | 3G specification handling procedures   |      |      |      |      |      | w    |        |        | Yes     |
| 01.00 | 21.900 |               | Technical Specification Group working methods  |      |      |      |      | Y    | Y    |        |        | No      |
| 01.01 | 01.01  |               | GSM Release 1999 Specifications  |      |      |      |      | Y    |      |        |        | No      |
| 01.01 | 21.101 | 01.01         | 3rd Generation mobile system Release 1999 Specifications   |      |      |      |      | Y    |      |        |        | No      |
| 01.01 | 21.801 |               | 3GPP drafting rules  |      |      |      |      |      |      | Y      |        | No      |
| 01.01 | 41.001 | 01.01         | GSM Specification set  |      |      |      |      |      |      | w      |        | Yes     |
| 01.02 | 01.02  |               | General Description of a GSM Public Land Mobile Network (PLMN)   |      | Y    | Y    | Y    |      |      |        |        | No      |
| 01.02 | 21.102 | 01.02         | 3rd Generation mobile system Release 4 specifications  |      |      |      |      |      |      | Y      |        | No      |
| 01.02 | 41.102 | 01.02         | GSM Release 4 specifications   |      |      |      |      |      | Y    |        |        | No      |
| 01.03 | 21.103 |               | 3rd Generation mobile system Release 5 specifications  |      |      |      |      |      |      |        | Y      | No      |
| 01.03 | 41.103 |               | GSM Release 5 specifications   |      |      |      |      |      |      |        | Y      | No      |
| 01.04 | 01.04  |               | Abbreviations and Acronyms   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 01.04 | 21.904 |               | UE Capability Requirements (UCR)   |      |      |      |      |      | Y    |        |        | No      |
| 01.05 | 01.05  |               | Definitions  |      | w    |      |      |      |      |        |        | Yes     |
| 01.05 | 21.905 |               | Vocabulary for 3GPP Specifications   |      |      |      |      | Y    | Y    | Y      |        | No      |
| 01.06 | 01.06  |               | Service implementation phases and possible further phases in the GSM PLMN                                    |      | w    |      |      |      |      |        |        | Yes     |
| 01.06 | 21.906 |               | reserved   |      |      |      |      |      | w    |        |        | Yes     |
| 01.07 | 01.07  |               | Updating procedure for GSM Recommendations   |      | w    |      |      |      |      |        |        | Yes     |
| 01.10 | 21.010 |               | reserved   |      |      |      |      |      | w    |        |        | Yes     |
| 01.10 | 21.810 |               | Report on multi-mode UE issues; ongoing work and identified additional work                                  |      |      |      |      | Y    |      |        |        | No      |
| 01.10 | 21.910 |               | Multi-mode UE issues; categories, principles and procedures  |      |      |      |      | Y    |      |        |        | No      |
| 01.11 | 21.111 |               | USIM and IC card requirements  |      |      |      |      | Y    | Y    |        |        | No      |
| 01.31 | 01.31  |               | Fraud Information Gathering System (FIGS); Service requirements; Stage 0                                     |      |      | w    |      | Y    | Y    |        |        | No      |
| 01.31 | 41.031 | 01.31         | Fraud Information Gathering System (FIGS); Service requirements; Stage 0                                     |      |      |      |      |      |      | Y      |        | No      |
| 01.33 | 01.33  |               | Lawful Interception requirements for GSM   |      |      |      |      | Y    | Y    |        |        | No      |
| 01.33 | 21.133 | 01.33         | Security threats and requirements  |      |      |      |      |      | Y    | Y      |        | No      |
| 01.33 | 41.033 | 01.33         | Lawful Interception requirements for GSM   |      |      |      |      |      |      | Y      |        | No      |
| 01.48 | 01.48  |               | ISDN-based DECT/GSM interworking; Feasibility study  |      |      | Y    | Y    |      |      |        |        | No      |
| 01.50 | 01.50  |               | Radio Local Loop (RLL) using GSM   |      |      | w    |      |      |      |        |        | Yes     |
| 01.51 | 01.51  |               | Dual mode of operation and roaming   |      |      | w    |      |      |      |        |        | Yes     |
| 01.56 | 01.56  |               | GSM Cordless Telephony System (CTS) (Phase 1); CTS Authentication and Key Generation Algorithms Requirements |      |      |      |      | Y    | w    |        |        | No      |
| 01.60 | 01.60  |               | GPRS requirements  |      |      |      | Y    |      |      |        |        | No      |
| 01.61 | 01.61  |               | General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements                                   |      |      | w    | Y    | Y    | Y    |        |        | No      |
| 01.61 | 41.061 | 01.61         | General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements                                   |      |      |      |      |      |      | Y      |        | No      |
| 01.78 | 01.78  |               | Customized Applications for Mobile networks using Enhanced Logic (CAMEL); Stage 0                            |      |      | w    |      |      |      |        |        | Yes     |
| 01.78 | 21.978 |               | Feasibility Technical Report – CAMEL Control of VoIP Services  |      |      |      |      |      | Y    |        |        | No      |
| 02.00 | 22.100 |               | UMTS Phase 1   |      |      |      |      |      | Y    |        |        | No      |
| 02.01 | 02.01  |               | Principles of Telecommunication Services Supported by a GSM Public Land Mobile Network(PLMN)                 | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.01 | 22.001 | 02.01         | Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)            |      |      |      |      |      | Y    | Y      |        | No      |
| 02.01 | 22.101 | 02.01         | Service aspects; Service principles  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 02.02 | 02.02  |               | Bearer Services (BS) Supported by a GSM Public Land Mobile Network (PLMN)                                    | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.02 | 22.002 | 02.02         | Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)                                |      |      |      |      |      | Y    | Y      |        | No      |
| 02.03 | 02.03  |               | Teleservices Supported by a GSM Public Land Mobile Network (PLMN)  | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.03 | 22.003 | 02.03         | Circuit Teleservices supported by a Public Land Mobile Network (PLMN)  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.04 | 02.04  |               | General on Supplementary Services  | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |

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| 02.04 | <b>22.004</b> | 02.04       | General on Supplementary Services  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.05 | <b>02.05</b>  |             | Simultaneous and Alternate Use of Services   | w    |      |      |      |      |      |        |        | Yes     |
| 02.05 | <b>22.105</b> | 02.05       | Services & service capabilities  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.06 | <b>02.06</b>  |             | Types of Mobile Stations (MS)  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.07 | <b>02.07</b>  |             | Mobile Station (MS) Features   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.07 | <b>22.907</b> |             | Terminal concepts  |      |      |      |      |      | w    |        |        | Yes     |
| 02.08 | <b>02.08</b>  |             | Quality of service / GSM system performance  | Y    | w    |      |      |      |      |        |        | Yes     |
| 02.09 | <b>02.09</b>  |             | Security Aspects   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 02.09 | <b>42.009</b> | 02.09       | Security Aspects   |      |      |      |      |      |      | Y      |        | No      |
| 02.10 | <b>02.10</b>  |             | Provision of Telecommunication Services  | w    |      |      |      |      |      |        |        | Yes     |
| 02.11 | <b>02.11</b>  |             | Service Accessibility  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.11 | <b>22.011</b> | 02.11       | Service accessibility  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.12 | <b>02.12</b>  |             | Licensing  | w    |      |      |      |      |      |        |        | Yes     |
| 02.12 | <b>22.112</b> | 02.12       | USIM toolkit interpreter; Stage 1  |      |      |      |      |      |      | Y      |        | No      |
| 02.13 | <b>02.13</b>  |             | Subscription to the Services of a GSM PLMN   | w    |      |      |      |      |      |        |        | Yes     |
| 02.14 | <b>02.14</b>  |             | Service Directory  | w    |      |      |      |      |      |        |        | Yes     |
| 02.15 | <b>02.15</b>  |             | Circulation of mobile stations   | w    |      |      |      |      |      |        |        | Yes     |
| 02.15 | <b>22.115</b> | 02.15       | Service Aspects Charging and billing   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 02.16 | <b>02.16</b>  |             | International Mobile Station Equipment Identities (IMEI)   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.16 | <b>22.016</b> | 02.16       | International Mobile Equipment Identities (IMEI)   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.17 | <b>02.17</b>  |             | Subscriber Identity Modules, Functional Characteristics  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 02.17 | <b>42.017</b> | 02.17       | Subscriber Identity Modules, Functional Characteristics  |      |      |      |      |      |      | Y      |        | No      |
| 02.18 | <b>02.18</b>  |             | Interworking with non-GSM applications on the SIM to be accessed via the GSM network                 |      |      | w    |      |      |      |        |        | Yes     |
| 02.19 | <b>02.19</b>  |             | Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1 |      |      |      |      | Y    | w    |        |        | No      |
| 02.19 | <b>42.019</b> | 02.19       | Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1 |      |      |      |      |      |      | Y      | Y      | No      |
| 02.20 | <b>02.20</b>  |             | Collection charges   | Y    |      |      |      |      |      |        |        | No      |
| 02.21 | <b>02.21</b>  |             | Transferred account procedure and billing information  | w    |      |      |      |      |      |        |        | Yes     |
| 02.21 | <b>22.121</b> | 02.21       | Service aspects; The Virtual Home Environment; Stage 1   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 02.22 | <b>02.22</b>  |             | Stage 1 for personalisation of GSM ME  |      |      | Y    | Y    | Y    |      |        |        | No      |
| 02.22 | <b>22.022</b> | 02.22       | Personalisation of Mobile Equipment (ME); Mobile functionality specification                         |      |      |      |      |      | Y    | Y      |        | No      |
| 02.24 | <b>02.24</b>  |             | Description of Charge Advice Information (CAI)   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.24 | <b>22.024</b> | 02.24       | Description of Charge Advice Information (CAI)   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.24 | <b>22.924</b> |             | Charging and accounting mechanisms   |      |      |      |      |      | w    |        |        | Yes     |
| 02.25 | <b>02.25</b>  |             | GSM - DCS roaming: Requirements and Stage 1 descriptions   |      |      | w    |      |      |      |        |        | Yes     |
| 02.25 | <b>22.925</b> |             | Quality of service and network performance   |      |      |      |      |      | w    |        |        | Yes     |
| 02.26 | <b>02.26</b>  |             | Operation of multi-band GSM/DCS 1800 network by a single operator                                    |      |      | w    |      |      |      |        |        | Yes     |
| 02.26 | <b>22.226</b> |             | Global text telephony; Stage 1: Service description  |      |      |      |      |      |      |        | Y      | No      |
| 02.27 | <b>02.27</b>  |             | DECT access to GSM networks  |      |      | w    |      |      |      |        |        | Yes     |
| 02.27 | <b>22.127</b> | 02.27       | Service Requirement for the Open Services Access (OSA); Stage 1                                      |      |      |      |      |      |      | Y      | Y      | No      |
| 02.27 | <b>22.227</b> |             | Service requirements for the Open Service Access (OSA)   |      |      |      |      |      |      | w      |        | Yes     |
| 02.28 | <b>02.28</b>  |             | UPT phase 1  |      |      | w    |      |      |      |        |        | Yes     |
| 02.28 | <b>22.228</b> |             | IP multimedia subsystem; Stage 1   |      |      |      |      |      |      |        | Y      | No      |
| 02.28 | <b>22.928</b> |             | IP-based multimedia services examples  |      |      |      |      |      |      |        | Y      | No      |
| 02.29 | <b>02.29</b>  |             | Inter operation with UPT phase 2   |      |      | w    |      |      |      |        |        | Yes     |
| 02.29 | <b>22.129</b> | 02.29       | Handover Requirements between UMTS and GSM or other Radio Systems                                    |      |      |      |      |      | Y    | Y      |        | No      |
| 02.30 | <b>02.30</b>  |             | Man-machine Interface (MMI) of the Mobile Station (MS)   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.30 | <b>22.030</b> | 02.30       | Man-Machine Interface (MMI) of the User Equipment (UE)   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.31 | <b>02.31</b>  |             | Fraud Information Gathering System (FIGS) Service description; Stage 1                               |      |      | w    |      | Y    | Y    |        |        | No      |
| 02.31 | <b>42.031</b> | 02.31       | Fraud Information Gathering System (FIGS) Service description; Stage 1                               |      |      |      |      |      |      | Y      |        | No      |

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| 02.32 | <b>02.32</b>  |             | Immediate Service Termination (IST); Service description; Stage 1                                       |      |      |      |      | Y    | Y    |        |        | No      |
| 02.32 | <b>42.032</b> | 02.32       | Immediate Service Termination (IST); Service description; Stage 1                                       |      |      |      |      |      |      | Y      |        | No      |
| 02.33 | <b>02.33</b>  |             | Lawful Interception; Stage 1  |      |      | w    |      | Y    | Y    |        |        | No      |
| 02.33 | <b>42.033</b> | 02.33       | Lawful Interception; Stage 1  |      |      |      |      |      |      | Y      |        | No      |
| 02.34 | <b>02.34</b>  |             | High Speed Circuit Switched Data (HSCSD); Stage 1   |      |      | Y    | Y    | Y    | w    |        |        | No      |
| 02.34 | <b>22.034</b> | 02.34       | High Speed Circuit Switched Data (HSCSD); Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.35 | <b>02.35</b>  |             | Universal access to freephone numbers - stage 1   |      |      | w    |      |      |      |        |        | Yes     |
| 02.35 | <b>22.135</b> | 02.35       | Multicall; Service description; Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.36 | <b>02.36</b>  |             | Premium rate services - stage 1   |      |      | w    |      |      |      |        |        | Yes     |
| 02.37 | <b>02.37</b>  |             | ISDN based DECT/GSM Interworking  |      |      | w    |      |      |      |        |        | Yes     |
| 02.38 | <b>02.38</b>  |             | SIM application toolkit (SAT); Stage 1  |      |      | w    |      |      |      |        |        | Yes     |
| 02.38 | <b>22.038</b> | 02.38       | USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1                                   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 02.40 | <b>02.40</b>  |             | Procedures for Call Progress Indications  | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.40 | <b>22.140</b> | 02.40       | Service aspects; Stage 1; Multimedia Messaging Service  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.41 | <b>02.41</b>  |             | Operator Determined Barring   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.41 | <b>22.041</b> | 02.41       | Operator Determined Call Barring  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.41 | <b>22.141</b> | 02.41       | Support of Presence Capability (SOP); stage 1   |      |      |      |      |      |      |        | Y      | No      |
| 02.41 | <b>22.941</b> |             | IP based multimedia framework specifications  |      |      |      |      |      |      |        | Y      | No      |
| 02.42 | <b>02.42</b>  |             | Network Identity and Timezone (NITZ); Service Description, Stage 1                                      |      |      | Y    | Y    | Y    | w    |        |        | No      |
| 02.42 | <b>22.042</b> | 02.42       | Network Identity and Time Zone (NITZ), stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.43 | <b>02.43</b>  |             | Support of Localised Service Area (SoLSA); Service description; Stage 1                                 |      |      |      |      | Y    | Y    |        |        | No      |
| 02.43 | <b>22.043</b> | 02.43       | Support of Localized Service Area (SoLSA); Service description; Stage 1                                 |      |      |      |      |      | w    | w      |        | Yes     |
| 02.43 | <b>42.043</b> | 02.43       | Support of Localised Service Area (SoLSA); Service description; Stage 1                                 |      |      |      |      |      |      | Y      |        | No      |
| 02.45 | <b>22.945</b> |             | Study of provision of fax service in GSM and UMTS   |      |      |      |      |      | Y    |        |        | No      |
| 02.46 | <b>22.146</b> |             | Multimedia Broadcast/Multicast Service; Stage 1   |      |      |      |      |      |      |        | Y      | No      |
| 02.46 | <b>22.946</b> |             | Broadcast and multicast services  |      |      |      |      |      |      |        | Y      | No      |
| 02.48 | <b>02.48</b>  |             | Security mechanisms for the SIM Application Toolkit; Stage 1  |      |      |      | Y    | Y    | Y    |        |        | No      |
| 02.48 | <b>22.048</b> | 02.48       | Security mechanisms for the (Universal) Subscriber Interface Module (U)SIM Application Toolkit; Stage 1 |      |      |      |      |      |      | Y      |        | No      |
| 02.48 | <b>42.048</b> | 02.48       | Security mechanisms for the SIM Application Toolkit; Stage 1  |      |      |      |      |      |      | w      |        | Yes     |
| 02.53 | <b>02.53</b>  |             | Tandem Free Operation (TFO); Service description; Stage 1   |      |      | w    |      | Y    | Y    |        |        | No      |
| 02.53 | <b>22.053</b> | 02.53       | Tandem Free Operation (TFO); Service Description - Stage 1  |      |      |      |      |      | w    | Y      |        | No      |
| 02.53 | <b>42.053</b> | 02.53       | Tandem Free Operation (TFO); Service description; Stage 1   |      |      |      |      |      |      | w      |        | Yes     |
| 02.56 | <b>02.56</b>  |             | GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1                              |      |      |      |      | Y    | Y    |        |        | No      |
| 02.56 | <b>42.056</b> | 02.56       | GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1                              |      |      |      |      |      |      | Y      |        | No      |
| 02.57 | <b>02.57</b>  |             | Mobile Station Application Execution Environment (MExE) Service description Stage 1                     |      |      |      |      | Y    | w    |        |        | No      |
| 02.57 | <b>22.057</b> | 02.57       | Mobile Execution Environment (MExE); Stage 1  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 02.60 | <b>02.60</b>  |             | General Packet Radio Service Stage 1 Description  |      |      | w    | Y    | Y    | w    |        |        | No      |
| 02.60 | <b>22.060</b> | 02.60       | General Packet Radio Service (GPRS); Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.60 | <b>22.960</b> |             | Mobile multimedia services  |      |      |      |      |      | w    |        |        | Yes     |
| 02.63 | <b>02.63</b>  |             | Packet Data on Signalling channels Service (PDS); Stage 1   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 02.66 | <b>02.66</b>  |             | Support of Mobile Number Portability (MNP); Service description; Stage 1                                |      |      | w    |      | Y    |      |        |        | No      |
| 02.66 | <b>22.066</b> | 02.66       | Support of Mobile Number Portability (MNP); Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.67 | <b>02.67</b>  |             | Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 1                                |      |      | Y    | Y    | Y    |      |        |        | No      |
| 02.67 | <b>22.067</b> | 02.67       | enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1                                |      |      |      |      |      | Y    | Y      |        | No      |
| 02.68 | <b>02.68</b>  |             | Voice Group Call Service (VGCS); Stage 1  |      |      | Y    | Y    | Y    | Y    |        |        | No      |

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| 02.68 | <b>42.068</b> | 02.68       | Voice Group Call Service (VGCS); Stage 1  |      |      |      |      |      |      | Y      |        | No      |
| 02.69 | <b>02.69</b>  |             | Voice Broadcast Service (VBS); Stage 1  |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 02.69 | <b>42.069</b> | 02.69       | Voice Broadcast Service (VBS); Stage 1  |      |      |      |      |      |      | Y      |        | No      |
| 02.70 | <b>22.970</b> |             | Virtual Home Environment Report   |      |      |      |      |      | w    |        |        | Yes     |
| 02.71 | <b>02.71</b>  |             | Location Services (LCS); Stage 1  |      |      |      |      | Y    |      |        |        | No      |
| 02.71 | <b>22.071</b> | 02.71       | Location Services (LCS); Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.71 | <b>22.971</b> |             | Automatic establishment of roaming relationships  |      |      |      |      |      | Y    |        |        | No      |
| 02.72 | <b>02.72</b>  |             | Call Deflection Service description, Stage 1  |      |      | w    |      | Y    |      |        |        | No      |
| 02.72 | <b>22.072</b> | 02.72       | Call Deflection (CD); Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.72 | <b>22.972</b> |             | Circuit-switched multimedia   |      |      |      |      |      | w    |        |        | Yes     |
| 02.73 | <b>02.73</b>  |             | Malicious Call Identification (MCID) - stage 1  |      |      | w    |      |      |      |        |        | Yes     |
| 02.75 | <b>22.975</b> |             | Advanced addressing   |      |      |      |      |      | Y    |        |        | No      |
| 02.76 | <b>02.76</b>  |             | Noise Suppression for the AMR   |      |      |      |      |      | Y    |        |        | No      |
| 02.76 | <b>22.076</b> | 02.76       | Noise suppression for the AMR codec; Service description - Stage 1                              |      |      |      |      |      |      | Y      |        | No      |
| 02.76 | <b>22.976</b> |             | Study on PS domain services and capabilities  |      |      |      |      |      |      | Y      |        | No      |
| 02.77 | <b>02.77</b>  |             | Emergency call TS12 with additional data transfer   |      |      | w    |      |      |      |        |        | Yes     |
| 02.78 | <b>02.78</b>  |             | Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1) |      |      | Y    | Y    | Y    | w    |        |        | No      |
| 02.78 | <b>22.078</b> | 02.78       | CAMEL; Stage 1  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 02.79 | <b>02.79</b>  |             | Support of Optimal Routeing (SOR); Service definition (Stage 1)                                 |      |      | Y    | Y    | Y    |      |        |        | No      |
| 02.79 | <b>22.079</b> | 02.79       | Support of optimal routeing; Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.81 | <b>02.81</b>  |             | Line Identification Supplementary Services; Stage 1   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.81 | <b>22.081</b> | 02.81       | Line Identification supplementary services; Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.82 | <b>02.82</b>  |             | Call Forwarding (CF) Supplementary Services; Stage 1  | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.82 | <b>22.082</b> | 02.82       | Call Forwarding (CF) Supplementary Services; Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.83 | <b>02.83</b>  |             | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1                          |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.83 | <b>22.083</b> | 02.83       | Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1                          |      |      |      |      |      | Y    | Y      |        | No      |
| 02.84 | <b>02.84</b>  |             | MultiParty (MPTY) Supplementary Services; Stage 1   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.84 | <b>22.084</b> | 02.84       | MultiParty (MPTY) supplementary service; Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.85 | <b>02.85</b>  |             | Closed User Group (CUG) Supplementary Services; Stage 1   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.85 | <b>22.085</b> | 02.85       | Closed User Group (CUG) supplementary services; Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.86 | <b>02.86</b>  |             | Advice of Charge (AoC) Supplementary Services; Stage 1  |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.86 | <b>22.086</b> | 02.86       | Advice of Charge (AoC) supplementary services; Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.87 | <b>02.87</b>  |             | User-to-User Signalling (UUS) Service Description; Stage 1                                      |      |      | w    |      | Y    |      |        |        | No      |
| 02.87 | <b>22.087</b> | 02.87       | User-to-user signalling (UUS); Stage 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 02.88 | <b>02.88</b>  |             | Call Barring (CB) Supplementary Services; Stage 1   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 02.88 | <b>22.088</b> | 02.88       | Call Barring (CB) supplementary services; Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.90 | <b>02.90</b>  |             | Stage 1 Decision of Unstructured Supplementary Service Data (USSD)                              |      | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 02.90 | <b>22.090</b> | 02.90       | Unstructured Supplementary Service Data (USSD); Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.91 | <b>02.91</b>  |             | Explicit Call Transfer (ECT)  |      |      | Y    | Y    | Y    |      |        |        | No      |
| 02.91 | <b>22.091</b> | 02.91       | Explicit Call Transfer (ECT) supplementary service; Stage 1                                     |      |      |      |      |      | Y    | Y      |        | No      |
| 02.92 | <b>02.92</b>  |             | Call Forward Enhancements (CFE) - Stage 1 description   |      |      | w    |      |      |      |        |        | Yes     |
| 02.93 | <b>02.93</b>  |             | Completion of Calls to Busy Subscriber (CCBS) Service Description; Stage 1                      |      |      | w    | Y    | Y    |      |        |        | No      |
| 02.93 | <b>22.093</b> | 02.93       | Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1                     |      |      |      |      |      | Y    | Y      |        | No      |
| 02.94 | <b>02.94</b>  |             | Follow Me Service description; Stage 1  |      |      |      |      |      | Y    |        |        | No      |
| 02.94 | <b>22.094</b> | 02.94       | Follow Me service description - Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.95 | <b>02.95</b>  |             | Support of Private Numbering Plan (SPNP); Service description; Stage 1                          |      |      | Y    | Y    | Y    | Y    |        |        | No      |

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| 02.96 | <b>02.96</b>  |             | Name Identification Supplementary Services; Stage 1   |      |      | w    | Y    | Y    |      |        |        | No      |
| 02.96 | <b>22.096</b> | 02.96       | Name identification supplementary services; Stage 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 02.97 | <b>02.97</b>  |             | Multiple Subscriber Profile (MSP) Service description, Stage 1                                      |      |      | w    |      | Y    |      |        |        | No      |
| 02.97 | <b>22.097</b> | 02.97       | Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1                            |      |      |      |      |      | Y    | Y      |        | No      |
| 02.98 | <b>02.98</b>  |             | New barring services; Stage 1   |      |      | w    |      |      |      |        |        | Yes     |
| 02.99 | <b>02.99</b>  |             | Direct Subscriber Access and Restriction (DSAR); Stage1   |      |      | w    |      |      |      |        |        | Yes     |
| 03.00 | <b>43.900</b> |             | Support for voice optimization for the IMS in the GERAN   |      |      |      |      |      |      |        | Y      | No      |
| 03.01 | <b>03.01</b>  |             | Network Functions   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 03.01 | <b>23.101</b> | 03.01       | General UMTS Architecture   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.02 | <b>03.02</b>  |             | Network Architecture  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.02 | <b>23.002</b> | 03.02       | Network Architecture  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 03.03 | <b>03.03</b>  |             | Numbering, Addressing and Identification  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.03 | <b>23.003</b> | 03.03       | Numbering, Addressing and Identification  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 03.04 | <b>03.04</b>  |             | Signalling Requirements Relating to Routing of Calls to Mobile Subscribers                          | Y    | Y    | w    | w    |      |      |        |        | No      |
| 03.05 | <b>03.05</b>  |             | Technical performance objectives  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.05 | <b>23.205</b> |             | Bearer-independent circuit-switched core network; Stage 2   |      |      |      |      |      |      | Y      |        | No      |
| 03.05 | <b>43.005</b> | 03.05       | Technical performance objectives  |      |      |      |      |      |      | Y      |        | No      |
| 03.07 | <b>03.07</b>  |             | Restoration Procedures  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.07 | <b>23.007</b> | 03.07       | Restoration procedures  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.07 | <b>23.107</b> | 03.07       | Quality of Service (QoS) concept and architecture   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 03.07 | <b>23.207</b> |             | End to end quality of service concept and architecture  |      |      |      |      |      |      | w      | Y      | No      |
| 03.07 | <b>23.907</b> |             | Quality of Service concept  |      |      |      |      |      |      | Y      |        | No      |
| 03.08 | <b>03.08</b>  |             | Organization of Subscriber Data   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.08 | <b>23.008</b> | 03.08       | Organisation of subscriber data   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.08 | <b>23.108</b> | 03.08       | Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures) |      |      |      |      |      | Y    | Y      |        | No      |
| 03.08 | <b>23.908</b> |             | Technical report on Pre-Paging  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.09 | <b>03.09</b>  |             | Handover Procedures   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.09 | <b>23.009</b> | 03.09       | Handover procedures   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.09 | <b>23.909</b> |             | Technical report on the Gateway Location Register   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.10 | <b>03.10</b>  |             | GSM Public Land Mobile Network (PLMN) Connection Types  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.10 | <b>23.010</b> | 03.10       | GSM Public Land Mobile Network (PLMN) Connection Types  |      |      |      |      |      | w    |        |        | Yes     |
| 03.10 | <b>23.110</b> | 03.10       | UMTS Access Stratum Services and Functions  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.10 | <b>23.910</b> |             | Circuit switched data bearer services   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.10 | <b>43.010</b> | 03.10       | GSM Public Land Mobile Network (PLMN) Connection Types  |      |      |      |      |      |      | Y      |        | No      |
| 03.11 | <b>03.11</b>  |             | Technical Realization of Supplementary Services - General Aspects                                   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.11 | <b>23.011</b> | 03.11       | Technical realization of Supplementary Services   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.11 | <b>23.911</b> |             | Technical report on Out-of-band transcoder control  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.12 | <b>03.12</b>  |             | Location Registration Procedures  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.12 | <b>23.012</b> | 03.12       | Location management procedures  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.12 | <b>23.912</b> |             | Technical report on Super-Charger   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.13 | <b>03.13</b>  |             | Discontinuous Reception (DRX) in the GSM System   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.13 | <b>23.913</b> |             | UMTS Turbo-Charger  |      |      |      |      |      |      | Y      |        | Yes     |
| 03.13 | <b>43.013</b> | 03.13       | Discontinuous Reception (DRX) in the GSM System   |      |      |      |      |      |      | Y      |        | No      |
| 03.14 | <b>03.14</b>  |             | Support of Dual Tone Multi-Frequency Signalling (DTMF) via the GSM System                           | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.14 | <b>23.014</b> | 03.14       | Support of Dual Tone Multi Frequency (DTMF) signalling  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.14 | <b>23.814</b> |             | Separating RR and MM specific parts of the MS Classmark   |      |      |      |      |      | Y    | w      |        | No      |
| 03.15 | <b>03.15</b>  |             | Technical Realization of Operator Determined Barring  |      | Y    | Y    | Y    | Y    |      |        |        | No      |

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| 03.15 | 23.015 | 03.15         | Technical realisation of Operator Determined Barring (ODB)  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.15 | 23.915 |               | Charging implications of IMS architecture   |      |      |      |      |      |      |        | Y      | No      |
| 03.16 | 03.16  |               | Subscriber Data Management  |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.16 | 23.016 | 03.16         | Subscriber data management; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.16 | 23.116 | 03.16         | Super-Charger technical realization; Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.17 | 03.17  |               | Technical realization of Exchange of Network Capabilities Information (ENCI); Stage 2             |      |      | w    |      |      |      |        |        | Yes     |
| 03.18 | 03.18  |               | Basic Call Handling   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.18 | 23.018 | 03.18         | Basic Call Handling; Technical realization  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 03.18 | 23.218 |               | IP Multimedia (IM) session handling; IM call model  |      |      |      |      |      |      |        | Y      | No      |
| 03.19 | 03.19  |               | GSM API for SIM toolkit stage 2   |      |      |      |      | Y    | Y    |        |        | No      |
| 03.19 | 23.119 | 03.19         | Gateway Location Register (GLR); Stage2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.19 | 43.019 | 03.19         | GSM Application Programming Interface (API) for Subscriber Interface Module (SIM) toolkit stage 2 |      |      |      |      |      |      | Y      | Y      | No      |
| 03.20 | 03.20  |               | Security-related Network Functions  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.20 | 23.920 |               | Evolution of the GSM platform towards UMTS  |      |      |      |      |      | w    |        |        | Yes     |
| 03.20 | 43.020 | 03.20         | Security-related Network Functions  |      |      |      |      |      |      | Y      |        | No      |
| 03.21 | 23.121 |               | Architecture Requirements for release 99  |      |      |      |      |      | Y    |        | w      | No      |
| 03.21 | 23.221 |               | Architectural requirements  |      |      |      |      |      |      | Y      | Y      | No      |
| 03.21 | 23.821 |               | Architecture Principles for Release 2000  |      |      |      |      |      |      | Y      |        | No      |
| 03.22 | 03.22  |               | Functions related to Mobile Station (MS) in idle mode and group receive mode                      |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.22 | 23.022 | 03.22         | Functions related to Mobile Station (MS) in idle mode and group receive mode                      |      |      |      |      |      | w    |        |        | Yes     |
| 03.22 | 23.122 | 03.22         | Non-Access-Stratum functions related to Mobile Station (MS) in idle mode                          |      |      |      |      |      | Y    | Y      |        | No      |
| 03.22 | 23.922 |               | Architecture for an All IP network  |      |      |      |      |      | w    | w      |        | Yes     |
| 03.22 | 43.022 | 03.22         | Functions Related to Mobile Station (MS) in Idle Mode   |      |      |      |      |      |      | Y      |        | No      |
| 03.23 | 23.923 |               | Combined GSM and Mobile IP mobility handling in UMTS IP CN  |      |      |      |      |      | Y    | w      |        | No      |
| 03.25 | 23.925 |               | UMTS Core network based ATM transport   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.26 | 03.26  |               | Multiband operation of GSM/DCS 1800 by a single operator  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.26 | 23.226 |               | Global text telephony; Stage 2: Architecture  |      |      |      |      |      |      |        | Y      | No      |
| 03.26 | 43.026 | 03.26         | Multiband operation of GSM/DCS 1800 by a single operator  |      |      |      |      |      |      | Y      |        | No      |
| 03.27 | 23.127 |               | Virtual Home Environment; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.27 | 23.227 |               | Application and user interaction in the UE; Principles and specific requirements                  |      |      |      |      |      |      | Y      |        | No      |
| 03.27 | 23.927 |               | VHE, Open Service Architecture  |      |      |      |      |      | w    |        |        | Yes     |
| 03.28 | 23.228 |               | IP multimedia subsystem; Stage 2  |      |      |      |      |      |      |        | Y      | No      |
| 03.30 | 03.30  |               | Radio Network Planning Aspects  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.30 | 23.930 |               | Iu Principles   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.30 | 43.030 | 03.30         | Radio Network Planning Aspects  |      |      |      |      |      |      | Y      |        | No      |
| 03.31 | 03.31  |               | Fraud Information Gathering System (FIGS); Service description; Stage 2                           |      |      |      |      | Y    | Y    |        |        | No      |
| 03.31 | 43.031 | 03.31         | Fraud Information Gathering System (FIGS); Service description; Stage 2                           |      |      |      |      |      |      | Y      |        | No      |
| 03.32 | 03.32  |               | Universal Geographical Area Description (GAD)   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.32 | 23.032 | 03.32         | Universal Geographical Area Description (GAD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.33 | 03.33  |               | Lawful Interception; Stage 2  |      |      |      |      | Y    | Y    |        |        | No      |
| 03.33 | 43.033 | 03.33         | Lawful Interception; Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 03.34 | 03.34  |               | High Speed Circuit Switched Data (HSCSD); Stage 2   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.34 | 23.034 | 03.34         | High Speed Circuit Switched Data (HSCSD); Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.35 | 03.35  |               | Immediate Service Termination (IST); Stage 2  |      |      |      |      | Y    | Y    |        |        | No      |
| 03.35 | 23.135 | 03.35         | Multicall supplementary service; Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.35 | 43.035 | 03.35         | Immediate Service Termination (IST); Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 03.36 | 03.36  |               | Premium rate services - stage 2   |      |      | w    |      |      |      |        |        | Yes     |
| 03.36 | 23.236 |               | Intra-domain connection of radio access network nodes to multiple core network nodes              |      |      |      |      |      |      |        | Y      | No      |
| 03.38 | 03.38  |               | Alphabets and Language Specific Information for GSM   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.38 | 23.038 | 03.38         | Alphabets & Language  |      |      |      |      |      | Y    | Y      |        | No      |

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| 03.39 | <b>03.39</b>  |               | Digital Cellular Telecommunications System (Phase 2) Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs) |      | w    | w    | w    | w    |      |        |        | Yes     |
| 03.39 | <b>23.039</b> | 03.39         | Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.40 | <b>03.40</b>  |               | Technical Realization of the Short Message Service (SMS) Point-to-point (PP)  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.40 | <b>23.040</b> | 03.40         | Technical realization of Short Message Service (SMS)  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 03.40 | <b>23.140</b> | 03.40         | Multimedia Messaging Service (MMS)  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.41 | <b>03.41</b>  |               | Technical Realization of Short Message Service Cell Broadcast (SMSCB)   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.41 | <b>23.041</b> | 03.41         | Technical realization of Cell Broadcast Service (CBS)   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.42 | <b>03.42</b>  |               | SMS Compression   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.42 | <b>23.042</b> | 03.42         | Compression algorithm for SMS   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.43 | <b>03.43</b>  |               | Support of Videotex   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 03.43 | <b>23.043</b> | 03.43         | Support of Videotex   |      |      |      |      |      | w    |        |        | Yes     |
| 03.44 | <b>03.44</b>  |               | Support of Teletex in a GSM Public Land Mobile Network (PLMN)   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 03.44 | <b>23.044</b> | 03.44         | Support of Teletex  |      |      |      |      |      | w    |        |        | Yes     |
| 03.45 | <b>03.45</b>  |               | Technical Realization of Facsimile Group 3 Service - transparent  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.45 | <b>23.045</b> | 03.45         | Technical Realization of Facsimile Group 3 Service - transparent  |      |      |      |      |      | w    |        |        | Yes     |
| 03.45 | <b>43.045</b> | 03.45         | Technical Realization of Facsimile Group 3 Service - transparent  |      |      |      |      |      |      | Y      |        | No      |
| 03.46 | <b>03.46</b>  |               | Technical Realization of Facsimile Group 3 Service - non transparent  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.46 | <b>23.046</b> | 03.46         | Technical realisation of facsimile Group 3 service - non-transparent  |      |      |      |      |      | w    |        |        | Yes     |
| 03.46 | <b>23.146</b> | 03.46         | Technical realisation of facsimile Group 3 service - non-transparent  |      |      |      |      |      |      | Y      |        | No      |
| 03.46 | <b>43.046</b> | 03.46         | Technical Realization of Facsimile Group 3 Service - non transparent  |      |      |      |      |      |      | Y      |        | No      |
| 03.47 | <b>03.47</b>  |               | Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)  |      | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 03.48 | <b>03.48</b>  |               | Security Mechanisms for SIM Toolkit Application; Stage 2  | Y    |      |      | Y    | Y    | Y    |        |        | No      |
| 03.48 | <b>23.048</b> | 03.48         | Security Mechanisms for SIM Toolkit Application; Stage 2  |      |      |      |      |      |      | Y      | Y      | No      |
| 03.48 | <b>43.048</b> | 03.48         | Security Mechanisms for SIM Toolkit Application; Stage 2  |      |      |      |      |      |      | w      |        | Yes     |
| 03.49 | <b>03.49</b>  |               | Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)   |      | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 03.50 | <b>03.50</b>  |               | Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 03.50 | <b>43.050</b> | 03.50         | Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System   |      |      |      |      |      |      | Y      | Y      | No      |
| 03.51 | <b>03.51</b>  |               | GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2  |      |      |      |      |      |      |        |        | Yes     |
| 03.51 | <b>43.051</b> | 03.51         | GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2  |      |      |      |      |      |      | Y      | Y      | No      |
| 03.52 | <b>03.52</b>  |               | Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2  |      |      |      |      | Y    | Y    |        |        | No      |
| 03.52 | <b>43.052</b> | 03.52         | Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 03.53 | <b>03.53</b>  |               | Tandem Free Operation (TFO); Service description; Stage 2   |      |      |      |      | Y    | Y    |        |        | No      |
| 03.53 | <b>23.053</b> | 03.53         | Tandem Free Operation (TFO); Service description; Stage 2   |      |      |      |      |      |      | Y      |        | No      |
| 03.53 | <b>23.153</b> | 03.53         | Out of Band Transcoder Control; Stage 2   |      |      |      |      |      |      | Y      |        | No      |
| 03.54 | <b>03.54</b>  |               | Description for the use of a Shared Inter Working Function (SIWF) in a GSM PLMN; Stage 2  |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.54 | <b>23.054</b> | 03.54         | Shared Interworking Functions; Stage 2  |      |      |      |      |      | Y    |        |        | No      |
| 03.55 | <b>03.55</b>  |               | Dual Transfer Mode (DTM); Stage 2   |      |      |      |      |      | Y    |        |        | No      |
| 03.55 | <b>23.955</b> |               | Virtual Home Environment (VHE) concepts   |      |      |      |      |      |      |        | Y      | No      |



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| 03.55 | <b>43.055</b> | 03.55       | Dual Transfer Mode (DTM); Stage 2   |      |      |      |      |      |      | Y      |        | No      |
| 03.56 | <b>03.56</b>  |             | GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2               |      |      |      |      | Y    | w    |        |        | No      |
| 03.57 | <b>03.57</b>  |             | Mobile Station Application Execution Environment (MExE); Functional description; Stage 2          |      |      |      |      | Y    |      |        |        | No      |
| 03.57 | <b>23.057</b> | 03.57       | Mobile Execution Environment (MExE); Functional description; Stage 2                              |      |      |      |      |      | Y    | Y      |        | No      |
| 03.58 | <b>03.58</b>  |             | Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)         |      |      |      | Y    | Y    | Y    |        |        | No      |
| 03.58 | <b>43.058</b> | 03.58       | Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)         |      |      |      |      |      |      | Y      |        | No      |
| 03.59 | <b>03.59</b>  |             | Location services (LCS) GERAN; Stage 2  |      |      |      |      |      |      |        |        | No      |
| 03.59 | <b>43.059</b> | 03.59       | Functional stage 2 description of Location Services in GERAN                                      |      |      |      |      |      |      | Y      | Y      | No      |
| 03.60 | <b>03.60</b>  |             | General Packet Radio Service (GPRS) Service description; Stage 2                                  |      |      |      | Y    | Y    |      |        |        | No      |
| 03.60 | <b>23.060</b> | 03.60       | General Packet Radio Service (GPRS) Service description; Stage 2                                  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.60 | <b>23.960</b> |             | Framework of network functions to support multimedia services                                     |      |      |      |      |      | w    |        |        | Yes     |
| 03.61 | <b>03.61</b>  |             | General Packet Radio Service (GPRS); Point To Multipoint Multicast Service Description; Stage 2   |      |      |      | w    |      |      |        |        | Yes     |
| 03.62 | <b>03.62</b>  |             | General Packet Radio Service (GPRS); Point-to-multipoint group call; Stage 2                      |      |      |      | w    |      |      |        |        | Yes     |
| 03.63 | <b>03.63</b>  |             | Packet Data on Signalling channels service (PDS) Service description, Stage 2                     |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 03.63 | <b>43.063</b> | 03.63       | Packet Data on Signalling channels service (PDS) Service description, Stage 2                     |      |      |      |      |      |      | Y      |        | No      |
| 03.64 | <b>03.64</b>  |             | Overall description of the GPRS radio interface; Stage 2  |      |      |      | Y    | Y    | Y    |        |        | No      |
| 03.64 | <b>43.064</b> | 03.64       | Overall description of the GPRS radio interface; Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 03.66 | <b>03.66</b>  |             | Support of GSM Mobile Number Portability (MNP); Stage 2   |      |      |      |      | Y    |      |        |        | No      |
| 03.66 | <b>23.066</b> | 03.66       | Support of GSM Mobile Number Portability (MNP) stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.67 | <b>03.67</b>  |             | Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2                           |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.67 | <b>23.067</b> | 03.67       | Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2                           |      |      |      |      |      | Y    | Y      |        | No      |
| 03.68 | <b>03.68</b>  |             | Voice Group Call Service (VGCS); Stage 2  |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 03.68 | <b>43.068</b> | 03.68       | Voice Group Call Service (VGCS); Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 03.69 | <b>03.69</b>  |             | Voice Broadcast service (VBS); Stage 2  |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 03.69 | <b>23.069</b> | 03.69       | Voice Broadcast service (VBS); Stage 2  |      |      |      |      |      | w    |        |        | Yes     |
| 03.69 | <b>43.069</b> | 03.69       | Voice Broadcast service (VBS); Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 03.70 | <b>03.70</b>  |             | Routing of Calls to/from Public Data Networks (PDN)   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.70 | <b>23.070</b> | 03.70       | Routing of calls to/from Public Data Networks (PDN) and the GSM Public Land Mobile Network (PLMN) |      |      |      |      |      | w    |        |        | Yes     |
| 03.71 | <b>03.71</b>  |             | Location Services (LCS); Functional description; Stage 2  |      |      |      |      | Y    | Y    |        |        | No      |
| 03.71 | <b>23.071</b> | 03.71       | Location services (LCS) stage 2   |      |      |      |      |      | w    |        |        | Yes     |
| 03.71 | <b>23.171</b> | 03.71       | Functional stage 2 description of location services in UMTS                                       |      |      |      |      |      | Y    | w      |        | No      |
| 03.71 | <b>23.271</b> |             | Functional stage 2 description of location services   |      |      |      |      |      |      | Y      | Y      | No      |
| 03.71 | <b>43.071</b> | 03.71       | Location services (LCS); Stage 2  |      |      |      |      |      |      | w      |        | Yes     |
| 03.72 | <b>03.72</b>  |             | Call Deflection stage 2   |      |      |      |      | Y    |      |        |        | No      |
| 03.72 | <b>23.072</b> | 03.72       | Call Deflection Supplementary Service; Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.72 | <b>23.972</b> |             | Circuit Switched Multimedia Telephony   |      |      |      |      |      | Y    | w      |        | No      |
| 03.73 | <b>03.73</b>  |             | Support of Localised Service Area (SoLSA); Stage 2  |      |      |      |      | Y    |      |        |        | No      |
| 03.73 | <b>23.073</b> | 03.73       | Support of Localised Service Area (SoLSA); Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.73 | <b>23.873</b> |             | Feasibility study fro transport and control separation in the PS CN domain                        |      |      |      |      |      |      | Y      |        | No      |
| 03.74 | <b>23.874</b> |             | Feasibility study of architecture for network requested PDP context activation with User-ID       |      |      |      |      |      |      | Y      |        | No      |
| 03.74 | <b>23.974</b> |             | Support of push service   |      |      |      |      |      |      |        | Y      | No      |
| 03.78 | <b>03.78</b>  |             | CAMEL Phase 2; Stage 2  |      |      | Y    | Y    | Y    |      |        |        | No      |

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| 03.78 | <b>23.078</b> | 03.78         | Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2                  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.79 | <b>03.79</b>  |               | Support of Optimal Routeing phase 1; Stage 2   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.79 | <b>23.079</b> | 03.79         | Support of Optimal Routeing (SOR); Technical realization; Stage 2                                    |      |      |      |      |      | Y    | Y      |        | No      |
| 03.81 | <b>03.81</b>  |               | Line Identification Supplementary Services; Stage 2  |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.81 | <b>23.081</b> | 03.81         | Line Identification supplementary services; Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.82 | <b>03.82</b>  |               | Call Forwarding (CF) Supplementary Services; Stage 2   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 03.82 | <b>23.082</b> | 03.82         | Call Forwarding (CF) Supplementary Services; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.83 | <b>03.83</b>  |               | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 2                               |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.83 | <b>23.083</b> | 03.83         | Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2                                |      |      |      |      |      | Y    | Y      |        | No      |
| 03.84 | <b>03.84</b>  |               | Multi Party (MPTY) Supplementary Services; Stage 2   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.84 | <b>23.084</b> | 03.84         | MultiParty (MPTY) Supplementary Service; Stage 2   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 03.85 | <b>03.85</b>  |               | Closed user Group (CUG) Supplementary Services; Stage 2  |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.85 | <b>23.085</b> | 03.85         | Closed User Group (CUG) Supplementary Service; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.86 | <b>03.86</b>  |               | Advice of Charge (AoC) Supplementary Services; Stage 2   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.86 | <b>23.086</b> | 03.86         | Advice of Charge (AoC) Supplementary Service; Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.87 | <b>03.87</b>  |               | User-to-user signalling (UUS); Stage 2   |      |      |      |      | Y    |      |        |        | No      |
| 03.87 | <b>23.087</b> | 03.87         | User-to-User Signalling (UUS) supplementary service; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.88 | <b>03.88</b>  |               | Call Barring (CB) supplementary services; Stage 2  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.88 | <b>23.088</b> | 03.88         | Call Barring (CB) Supplementary Service; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.90 | <b>03.90</b>  |               | Unstructured Supplementary Service Data (USSD)   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 03.90 | <b>23.090</b> | 03.90         | Unstructured Supplementary Service Data (USSD); Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.91 | <b>03.91</b>  |               | Explicit Call Transfer (ECT) Supplementary Service; Stage 2  |      |      | Y    | Y    | Y    |      |        |        | No      |
| 03.91 | <b>23.091</b> | 03.91         | Explicit Call Transfer (ECT) Supplementary Service; Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.93 | <b>03.93</b>  |               | Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2                      |      |      |      | Y    | Y    |      |        |        | No      |
| 03.93 | <b>23.093</b> | 03.93         | Call Completion to Busy Subscriber (CCBS); Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.94 | <b>03.94</b>  |               | Follow Me Service description; Stage 2   |      |      | w    |      |      |      |        |        | Yes     |
| 03.94 | <b>23.094</b> | 03.94         | Follow Me Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 03.95 | <b>03.95</b>  |               | Support of Private Numbering Plan (SPNP); Stage 2  |      |      | w    |      |      |      |        |        | Yes     |
| 03.96 | <b>03.96</b>  |               | Name Identification Supplementary Services; Stage 2  |      |      |      | Y    | Y    |      |        |        | No      |
| 03.96 | <b>23.096</b> | 03.96         | Name Identification Supplementary Service; Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.97 | <b>03.97</b>  |               | Multiple subscriber Profile (MSP); Stage 2   |      |      |      |      | Y    |      |        |        | No      |
| 03.97 | <b>23.097</b> | 03.97         | Multiple Subscriber Profile (MSP); Stage 2   |      |      |      |      |      | Y    | Y      |        | No      |
| 03.98 | <b>03.98</b>  |               | New barring services; Stage 2 description  |      |      | w    |      |      |      |        |        | Yes     |
| 03.99 | <b>03.99</b>  |               | Direct Subscriber Access and Restriction (DSAR); Stage 2   |      |      | w    |      |      |      |        |        | Yes     |
| 04.01 | <b>04.01</b>  |               | Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles             | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.01 | <b>44.001</b> | 04.01         | Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles             |      |      |      |      |      |      | Y      |        | No      |
| 04.02 | <b>04.02</b>  |               | GSM Public Land Mobile Network (PLMN) Access Reference Configuration                                 | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.02 | <b>24.002</b> | 04.02         | GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration                            |      |      |      |      |      | Y    | Y      |        | No      |
| 04.03 | <b>04.03</b>  |               | Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |

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| 04.03 | <b>44.003</b> | 04.03       | Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities   |      |      |      |      |      |      | Y      |        | No      |
| 04.04 | <b>04.04</b>  |             | Layer 1 - General Requirements   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.04 | <b>24.004</b> | 04.04       | Layer 1 - General Requirements   |      |      |      |      |      |      | w      |        | Yes     |
| 04.04 | <b>44.004</b> | 04.04       | Layer 1 - General Requirements   |      |      |      |      |      |      | Y      |        | No      |
| 04.05 | <b>04.05</b>  |             | Data Link (DL) Layer General Aspects   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.05 | <b>44.005</b> | 04.05       | Data Link (DL) Layer General Aspects   |      |      |      |      |      |      | Y      |        | No      |
| 04.06 | <b>04.06</b>  |             | Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.06 | <b>44.006</b> | 04.06       | Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification  |      |      |      |      |      |      | Y      |        | No      |
| 04.07 | <b>04.07</b>  |             | Mobile Radio Interface Signalling Layer 3 - General Aspects  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.07 | <b>24.007</b> | 04.07       | Mobile Radio Interface Signalling Layer 3 - General Aspects  |      |      |      |      |      | Y    | Y      |        | No      |
| 04.08 | <b>04.08</b>  |             | Mobile radio interface layer 3 specification   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 04.08 | <b>24.008</b> | 04.08       | Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3  |      |      |      |      |      | Y    | Y      | Y      | No      |
| 04.08 | <b>44.008</b> | 04.08       | Mobile radio interface layer 3 specification   |      |      |      |      |      |      | Y      |        | No      |
| 04.10 | <b>04.10</b>  |             | Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.10 | <b>24.010</b> | 04.10       | Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects  |      |      |      |      |      | Y    | Y      |        | No      |
| 04.11 | <b>04.11</b>  |             | Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.11 | <b>24.011</b> | 04.11       | Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface  |      |      |      |      |      | Y    | Y      |        | No      |
| 04.12 | <b>04.12</b>  |             | Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.12 | <b>24.012</b> | 04.12       | Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface   |      |      |      |      |      | w    | w      |        | Yes     |
| 04.12 | <b>44.012</b> | 04.12       | Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface   |      |      |      |      |      |      | Y      |        | No      |
| 04.13 | <b>04.13</b>  |             | Performance Requirements on Mobile Radio Interface   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.13 | <b>44.013</b> | 04.13       | Performance Requirements on Mobile Radio Interface   |      |      |      |      |      |      | Y      |        | No      |
| 04.14 | <b>04.14</b>  |             | Individual equipment type requirements and interworking; Special conformance testing functions   |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 04.14 | <b>44.014</b> | 04.14       | Individual equipment type requirements and interworking; Special conformance testing functions   |      |      |      |      |      |      | Y      |        | No      |
| 04.18 | <b>04.18</b>  |             | Mobile radio interface layer 3 specification; Radio Resource Control Protocol  |      |      |      |      |      | Y    |        |        | No      |
| 04.18 | <b>44.018</b> | 04.18       | Mobile Radio Interface - Layer 3 Specification RR part   |      |      |      |      |      |      | Y      | Y      | No      |
| 04.21 | <b>04.21</b>  |             | Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 04.21 | <b>44.021</b> | 04.21       | Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface   |      |      |      |      |      |      | Y      |        | No      |
| 04.22 | <b>04.22</b>  |             | Radio Link Protocol for Data and Telematic Services on the MS-BSS Interface  | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 04.22 | <b>24.022</b> | 04.22       | Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface |      |      |      |      |      | Y    | Y      |        | No      |
| 04.28 | <b>24.228</b> |             | Signalling flows for the IP multimedia call control based on SIP and SDP; stage 3  |      |      |      |      |      |      |        | Y      | No      |
| 04.29 | <b>24.229</b> |             | IP Multimedia Call Control Protocol based on SIP and SDP; stage 3  |      |      |      |      |      |      |        | Y      | No      |
| 04.30 | <b>04.30</b>  |             | Location Services LCS Stage 3 SS (MO-LR)   |      |      |      |      | Y    |      |        |        | No      |
| 04.30 | <b>24.030</b> | 04.30       | Location Services LCS Stage 3 SS (MO-LR)   |      |      |      |      |      | Y    | Y      |        | No      |
| 04.31 | <b>04.31</b>  |             | Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)  |      |      |      |      | Y    | Y    |        |        | No      |
| 04.31 | <b>44.031</b> | 04.31       | Location Services LCS RR LCS Protocol  |      |      |      |      |      |      | Y      | Y      | No      |
| 04.33 | <b>04.33</b>  |             | Lawful interception; Stage 3   |      |      |      |      | w    |      |        |        | Yes     |
| 04.35 | <b>04.35</b>  |             | Location Services LCS Stage 3 E-OTD Enhanced Observed  |      |      |      |      | Y    | Y    |        |        | No      |
| 04.35 | <b>24.135</b> | 04.35       | Multicall supplementary service; Stage 3   |      |      |      |      |      | Y    | Y      |        | No      |

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| 04.35 | <b>44.035</b> | 04.35         | Location Services LCS Stage 3 E-OTD Enhanced Observed  |      |      |      |      |      |      | Y      |        | No      |
| 04.36 | <b>04.36</b>  |               | Premium rate services - stage 3  |      |      | w    |      |      |      |        |        | Yes     |
| 04.46 | <b>24.946</b> |               | reserved   |      |      |      |      |      |      | w      |        | No      |
| 04.53 | <b>04.53</b>  |               | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3  |      |      |      |      | w    |      |        |        | Yes     |
| 04.56 | <b>04.56</b>  |               | GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification   |      |      |      |      | Y    | Y    |        |        | No      |
| 04.56 | <b>44.056</b> | 04.56         | GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification   |      |      |      |      |      |      | Y      |        | No      |
| 04.57 | <b>04.57</b>  |               | GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification  |      |      |      |      | Y    | Y    |        |        | No      |
| 04.57 | <b>44.057</b> | 04.57         | GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification  |      |      |      |      |      |      | Y      |        | No      |
| 04.60 | <b>04.60</b>  |               | General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol |      |      |      | Y    | Y    | Y    |        |        | No      |
| 04.60 | <b>44.060</b> | 04.60         | General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol |      |      |      |      |      |      | Y      |        | No      |
| 04.61 | <b>04.61</b>  |               | General Packet Radio Service (GPRS); Point-to-multipoint multicast; Stage 3  |      |      |      | w    |      |      |        |        | Yes     |
| 04.62 | <b>04.62</b>  |               | General Packet Radio Service (GPRS); Point-to-multipoint group call; Stage 3   |      |      |      | w    |      |      |        |        | Yes     |
| 04.63 | <b>04.63</b>  |               | Packet Data on Signalling channels Service (PDS) Service Description, Stage 3  |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 04.63 | <b>44.063</b> | 04.63         | Packet Data on Signalling channels Service (PDS) Service Description, Stage 3  |      |      |      |      |      |      | Y      |        | No      |
| 04.64 | <b>04.64</b>  |               | Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification  |      |      | w    | Y    | Y    | Y    |        |        | No      |
| 04.64 | <b>44.064</b> | 04.64         | Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification  |      |      |      |      |      |      | Y      |        | No      |
| 04.65 | <b>04.65</b>  |               | General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)              |      |      | w    | Y    | Y    | Y    |        |        | No      |
| 04.65 | <b>24.065</b> | 04.65         | General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)              |      |      |      |      |      | w    |        |        | Yes     |
| 04.65 | <b>44.065</b> | 04.65         | Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)   |      |      |      |      |      |      | Y      |        | No      |
| 04.67 | <b>04.67</b>  |               | Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 04.67 | <b>24.067</b> | 04.67         | Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3   |      |      |      |      |      | Y    | Y      |        | No      |
| 04.68 | <b>04.68</b>  |               | Group Call Control (GCC) Protocol  |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 04.68 | <b>24.068</b> | 04.68         | Group Call Control (GCC) Protocol  |      |      |      |      |      | w    |        |        | Yes     |
| 04.68 | <b>44.068</b> | 04.68         | Group Call Control (GCC) Protocol  |      |      |      |      |      |      | Y      |        | No      |
| 04.69 | <b>04.69</b>  |               | Broadcast Call Control (BCC) protocol  |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 04.69 | <b>24.069</b> | 04.69         | Broadcast Call Control (BCC) protocol  |      |      |      |      |      | w    |        |        | Yes     |
| 04.69 | <b>44.069</b> | 04.69         | Broadcast Call Control (BCC) protocol  |      |      |      |      |      |      | Y      |        | No      |
| 04.70 | <b>04.70</b>  |               | Payphone services - stage 3  |      |      | w    |      |      |      |        |        | Yes     |
| 04.71 | <b>04.71</b>  |               | Location Services (LCS); Mobile radio interface layer 3 specification  |      |      |      |      | Y    | Y    |        |        | No      |
| 04.71 | <b>44.071</b> | 04.71         | Location services (LCS) stage 3  |      |      |      |      |      |      | Y      |        | No      |
| 04.72 | <b>04.72</b>  |               | Call Deflection (CD) Supplementary Service; Stage 3  |      |      |      |      | Y    |      |        |        | No      |
| 04.72 | <b>24.072</b> | 04.72         | Call Deflection Supplementary Service; Stage 3   |      |      |      |      |      | Y    | Y      |        | No      |
| 04.73 | <b>04.73</b>  |               | Malicious Call Identification (MCID) - stage 3   |      |      | w    |      |      |      |        |        | Yes     |
| 04.78 | <b>04.78</b>  |               | Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 3   |      |      | w    |      |      |      |        |        | Yes     |
| 04.79 | <b>04.79</b>  |               | Support of Optimal routing - stage 3   |      |      | w    |      |      |      |        |        | Yes     |
| 04.80 | <b>04.80</b>  |               | Mobile Radio Interface Layer 3 - Supplementary Services Specification Formats and Coding   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |

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| 04.80 | <b>24.080</b> | 04.80         | Mobile radio Layer 3 Supplementary Service specification - Formats and coding |      |      |      |      |      | Y    | Y      |        | No      |
| 04.81 | <b>04.81</b>  |               | Line Identification Supplementary Services; Stage 3                           |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.81 | <b>24.081</b> | 04.81         | Line Identification Supplementary Service; Stage 3                            |      |      |      |      |      | Y    | Y      |        | No      |
| 04.82 | <b>04.82</b>  |               | Call Forwarding (CF) Supplementary Services - Stage 3                         | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.82 | <b>24.082</b> | 04.82         | Call Forwarding Supplementary Service; Stage 3                                |      |      |      |      |      | Y    | Y      |        | No      |
| 04.83 | <b>04.83</b>  |               | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 3        |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.83 | <b>24.083</b> | 04.83         | Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3         |      |      |      |      |      | Y    | Y      |        | No      |
| 04.84 | <b>04.84</b>  |               | Multi Party (MPTY) Supplementary Services; Stage 3                            |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.84 | <b>24.084</b> | 04.84         | MultiParty (MPTY) Supplementary Service; Stage 3                              |      |      |      |      |      | Y    | Y      |        | No      |
| 04.85 | <b>04.85</b>  |               | Closed User Group (CUG) Supplementary Services; Stage 3                       |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.85 | <b>24.085</b> | 04.85         | Closed User Group (CUG) Supplementary Service; Stage 3                        |      |      |      |      |      | Y    | Y      |        | No      |
| 04.86 | <b>04.86</b>  |               | Advice of Charge (AoC) Supplementary Services; Stage 3                        |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.86 | <b>24.086</b> | 04.86         | Advice of Charge (AoC) Supplementary Service; Stage 3                         |      |      |      |      |      | Y    | Y      |        | No      |
| 04.87 | <b>04.87</b>  |               | User-to-User Signalling (UUS) Supplementary Service Stage 3                   |      |      |      |      | Y    |      |        |        | No      |
| 04.87 | <b>24.087</b> | 04.87         | User-to-User Signalling (UUS); Stage 3  |      |      |      |      |      | Y    | Y      |        | No      |
| 04.88 | <b>04.88</b>  |               | Call Barring (CB) Supplementary Services; Stage 3                             | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.88 | <b>24.088</b> | 04.88         | Call Barring (CB) Supplementary Service; Stage 3                              |      |      |      |      |      | Y    | Y      |        | No      |
| 04.90 | <b>04.90</b>  |               | Unstructured Supplementary Service Data (USSD)                                |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 04.90 | <b>24.090</b> | 04.90         | Unstructured Supplementary Service Data (USSD); Stage 3                       |      |      |      |      |      | Y    | Y      |        | No      |
| 04.91 | <b>04.91</b>  |               | Explicit Call Transfer (ECT) Supplementary Service; Stage 3                   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 04.91 | <b>24.091</b> | 04.91         | Explicit Call Transfer (ECT) Supplementary Service; Stage 3                   |      |      |      |      |      | Y    | Y      |        | No      |
| 04.93 | <b>04.93</b>  |               | Completion of Calls to Busy Subscriber (CCBS); Stage 3                        |      |      |      | Y    | Y    |      |        |        | No      |
| 04.93 | <b>24.093</b> | 04.93         | Call Completion to Busy Subscriber (CCBS); Stage 3                            |      |      |      |      |      | Y    | Y      |        | No      |
| 04.94 | <b>04.94</b>  |               | Follow Me Service description; Stage 3  |      |      |      |      |      | w    |        |        | Yes     |
| 04.94 | <b>24.094</b> | 04.94         | Follow Me; Stage 3  |      |      |      |      |      | w    |        |        | Yes     |
| 04.96 | <b>04.96</b>  |               | Name Identification Supplementary Services; Stage 3                           |      |      |      | Y    | Y    |      |        |        | No      |
| 04.96 | <b>24.096</b> | 04.96         | Name Identification Supplementary Service; Stage 3                            |      |      |      |      |      | Y    | Y      |        | No      |
| 04.98 | <b>04.98</b>  |               | New barring services - Stage 3 description                                    |      |      | w    |      |      |      |        |        | Yes     |
| 04.99 | <b>04.99</b>  |               | Direct subscriber access and restriction - stage 3                            |      |      | w    |      |      |      |        |        | Yes     |
| 05.01 | <b>05.01</b>  |               | Physical Layer on the Radio Path (General Description)                        | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.01 | <b>25.101</b> | 05.01         | UE Radio transmission and reception (FDD)                                     |      |      |      |      |      | Y    | Y      |        | No      |
| 05.01 | <b>25.201</b> |               | Physical layer -General Description   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.01 | <b>25.301</b> |               | Radio Interface Protocol Architecture   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.01 | <b>25.401</b> |               | UTRAN Overall Description   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 05.01 | <b>45.001</b> | 05.01         | Physical Layer on the Radio Path (General Description)                        |      |      |      |      |      |      | Y      | Y      | No      |
| 05.02 | <b>05.02</b>  |               | Multiplexing and Multiple Access on the Radio Path                            | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.02 | <b>25.102</b> | 05.02         | UE Radio transmission and reception (TDD)                                     |      |      |      |      |      | Y    | Y      |        | No      |
| 05.02 | <b>25.302</b> |               | Services provided by the physical layer                                       |      |      |      |      |      | Y    | Y      |        | No      |
| 05.02 | <b>25.402</b> |               | Synchronisation in UTRAN Stage 2  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.02 | <b>45.002</b> | 05.02         | Multiplexing and Multiple Access on the Radio Path                            |      |      |      |      |      |      | Y      | Y      | No      |
| 05.03 | <b>05.03</b>  |               | Channel coding  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.03 | <b>25.103</b> | 05.03         | RF parameters in support of RRM   |      |      |      |      |      | w    |        |        | Yes     |
| 05.03 | <b>25.303</b> |               | Interlayer procedures in Connected Mode                                       |      |      |      |      |      | Y    | Y      |        | No      |
| 05.03 | <b>45.003</b> | 05.03         | Channel coding  |      |      |      |      |      |      | Y      | Y      | No      |
| 05.04 | <b>05.04</b>  |               | Modulation  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |

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| 05.04 | 25.104 | 05.04         | UTRA (BS) FDD; Radio transmission and reception                                  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.04 | 25.304 |               | UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode |      |      |      |      |      | Y    | Y      |        | No      |
| 05.04 | 45.004 | 05.04         | Modulation   |      |      |      |      |      |      | w      |        | No      |
| 05.05 | 05.05  |               | Radio Transmission and Reception   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.05 | 25.105 | 05.05         | UTRA (BS) TDD: Radio transmission and reception                                  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.05 | 25.305 |               | Stage 2 functional specification of UE positioning in UTRAN                      |      |      |      |      |      | Y    | Y      | Y      | No      |
| 05.05 | 45.005 | 05.05         | Radio transmission and reception   |      |      |      |      |      |      | Y      | Y      | No      |
| 05.06 | 25.106 |               | UTRA Repeater; Radio transmission and reception                                  |      |      |      |      |      |      | Y      |        | No      |
| 05.06 | 25.306 |               | UE Radio Access capabilities definition  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.07 | 25.107 |               | UTRA Repeater; Conformance testing   |      |      |      |      |      |      | w      |        | Yes     |
| 05.07 | 25.307 |               | Requirements on UE supporting a release-independent frequency band               |      |      |      |      |      | Y    | Y      |        | No      |
| 05.08 | 05.08  |               | Radio Subsystem Link Control   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.08 | 25.308 |               | High speed downlink packet access  |      |      |      |      |      |      |        | Y      | No      |
| 05.08 | 45.008 | 05.08         | Radio subsystem link control   |      |      |      |      |      |      | Y      | Y      | No      |
| 05.09 | 05.09  |               | Link adaptation  |      |      |      |      | Y    | Y    |        |        | No      |
| 05.09 | 45.009 | 05.09         | Link adaptation  |      |      |      |      |      |      | Y      | Y      | No      |
| 05.10 | 05.10  |               | Radio subsystem synchronization  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.10 | 25.410 |               | UTRAN Iu Interface: General Aspects and Principles                               |      |      |      |      |      | Y    | Y      |        | No      |
| 05.10 | 45.010 | 05.10         | Radio subsystem synchronization  |      |      |      |      |      |      | Y      |        | No      |
| 05.11 | 25.211 |               | Physical channels and mapping of transport channels onto physical channels (FDD) |      |      |      |      |      | Y    | Y      |        | No      |
| 05.11 | 25.411 |               | UTRAN Iu interface Layer 1   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.12 | 25.212 |               | Multiplexing and channel coding (FDD)  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.12 | 25.412 |               | UTRAN Iu interface signalling transport  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.13 | 25.113 |               | Base station EMC   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.13 | 25.213 |               | Spreading and modulation (FDD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.13 | 25.413 |               | UTRAN Iu interface RANAP signalling  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.14 | 05.14  |               | Release independent frequency bands; Implementation guidelines                   |      |      |      | Y    | Y    | w    |        |        | No      |
| 05.14 | 25.214 |               | Physical layer procedures (FDD)  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.14 | 25.414 |               | UTRAN Iu interface data transport & transport signalling                         |      |      |      |      |      | Y    | Y      |        | No      |
| 05.15 | 25.215 |               | Physical layer; Measurements (FDD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.15 | 25.415 |               | UTRAN Iu interface user plane protocols  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.18 | 05.18  |               | Hands free mobile station  |      |      | w    |      |      |      |        |        | Yes     |
| 05.19 | 05.19  |               | Service to GSM handportables in trains   |      |      | w    |      |      |      |        |        | Yes     |
| 05.19 | 25.419 |               | UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)                    |      |      |      |      |      | Y    | Y      |        | No      |
| 05.20 | 05.20  |               | Fast moving Mobile Station (study)   |      |      | w    |      |      |      |        |        | Yes     |
| 05.20 | 25.420 |               | UTRAN Iur Interface: General Aspects and Principles                              |      |      |      |      |      | Y    | Y      |        | No      |
| 05.21 | 05.21  |               | DCS 1800; 4 Watt Mobile Power Class - study                                      |      |      |      | w    |      |      |        |        | Yes     |
| 05.21 | 25.221 |               | Physical channels and mapping of transport channels onto physical channels (TDD) |      |      |      |      |      | Y    | Y      |        | No      |
| 05.21 | 25.321 |               | Medium Access Control (MAC) protocol specification                               |      |      |      |      |      | Y    | Y      |        | No      |
| 05.21 | 25.421 |               | UTRAN Iur interface Layer 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.21 | 25.921 |               | Guidelines and principles for protocol description and error handling            |      |      |      |      |      | Y    | Y      |        | No      |
| 05.22 | 05.22  |               | Radio link management in hierarchical networks                                   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.22 | 25.222 |               | Multiplexing and channel coding (TDD)  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.22 | 25.322 |               | Radio Link Control (RLC) protocol specification                                  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.22 | 25.422 |               | UTRAN Iur interface signalling transport   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.22 | 25.922 |               | Radio Resource Management Strategies   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.22 | 45.022 | 05.22         | Radio link management in hierarchical networks                                   |      |      |      |      |      |      | Y      |        | No      |
| 05.23 | 25.123 |               | Requirements for support of radio resource management (TDD)                      |      |      |      |      |      | Y    | Y      |        | No      |
| 05.23 | 25.223 |               | Spreading and modulation (TDD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.23 | 25.323 |               | Packet Data Convergence Protocol (PDCP) specification                            |      |      |      |      |      | Y    | Y      |        | No      |
| 05.23 | 25.423 |               | UTRAN Iur interface RNSAP signalling   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.23 | 25.923 |               | Stage 2 Functional Specification of Location Services in UTRAN                   |      |      |      |      |      | w    |        |        | Yes     |
| 05.24 | 25.224 |               | Physical layer procedures (TDD)  |      |      |      |      |      | Y    | Y      |        | No      |

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| 05.24 | 25.324 |               | Broadcast/Multicast Control (BMC)  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.24 | 25.424 |               | UTRAN Iur interface data transport & transport signalling for CCH data streams         |      |      |      |      |      | Y    | Y      |        | No      |
| 05.24 | 25.924 |               | Opportunity Driven Multiple Access (ODMA)  |      |      |      |      |      |      | Y      |        | No      |
| 05.25 | 25.225 |               | Physical layer; Measurements (TDD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.25 | 25.425 |               | UTRAN Iur interface user plane protocols for CCH data streams                          |      |      |      |      |      | Y    | Y      |        | No      |
| 05.25 | 25.925 |               | Radio Interface for Broadcast/Multicast Services                                       |      |      |      |      |      | Y    |        |        | No      |
| 05.26 | 25.426 |               | UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams |      |      |      |      |      | Y    | Y      |        | No      |
| 05.26 | 25.926 |               | UE Radio Access capabilities definition  |      |      |      |      |      | w    |        |        | Yes     |
| 05.27 | 25.427 |               | UTRAN Iur and Iub interface user plane protocols for DCH data streams                  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.28 | 25.928 |               | 1,28 Mcps functionality for UTRA TDD physical layer                                    |      |      |      |      |      |      | Y      |        | No      |
| 05.30 | 05.30  |               | General packet radio service requirements  |      |      | w    |      |      |      |        |        | Yes     |
| 05.30 | 25.430 |               | UTRAN Iub Interface: General Aspects and Principles                                    |      |      |      |      |      | Y    | Y      |        | No      |
| 05.31 | 25.331 |               | Radio Resource Control (RRC) Protocol Specification                                    |      |      |      |      |      | Y    | Y      |        | No      |
| 05.31 | 25.431 |               | UTRAN Iub interface Layer 1  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.31 | 25.831 |               | Study Items for future release   |      |      |      |      |      | Y    |        |        | No      |
| 05.31 | 25.931 |               | UTRAN Functions, examples on signalling procedures                                     |      |      |      |      |      | Y    | Y      |        | No      |
| 05.32 | 25.432 |               | UTRAN Iub interface signalling transport   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.32 | 25.832 |               | Manifestations of Handover and SRNS relocation   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.32 | 25.932 |               | Delay budget within the access stratum   |      |      |      |      |      |      | w      |        | Yes     |
| 05.33 | 25.133 |               | Requirements for support of radio resource management (FDD)                            |      |      |      |      |      | Y    | Y      |        | No      |
| 05.33 | 25.433 |               | UTRAN Iub interface NBAP signalling  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.33 | 25.833 |               | Physical layer items not for inclusion in Release 99                                   |      |      |      |      |      | Y    |        |        | No      |
| 05.33 | 25.933 |               | IP Transport in UTRAN  |      |      |      |      |      |      | Y      |        | No      |
| 05.34 | 25.434 |               | UTRAN Iub interface data transport & transport signalling for CCH data streams         |      |      |      |      |      | Y    | Y      |        | No      |
| 05.34 | 25.834 |               | UTRA TDD low chip rate option; Radio protocol aspects                                  |      |      |      |      |      |      | Y      |        | No      |
| 05.34 | 25.934 |               | AAL2 QoS optimization  |      |      |      |      |      |      | Y      |        | No      |
| 05.35 | 25.435 |               | UTRAN Iub interface user plane protocols for CCH data streams                          |      |      |      |      |      | Y    | Y      |        | No      |
| 05.35 | 25.835 |               | Report on hybrid ARQ type II/III   |      |      |      |      |      |      | Y      |        | No      |
| 05.35 | 25.935 |               | RRM optimisation   |      |      |      |      |      |      | Y      |        | No      |
| 05.36 | 25.836 |               | Node B synchronization for TDD   |      |      |      |      |      |      | Y      |        | No      |
| 05.36 | 25.936 |               | Handover for realtime services from PS-domain  |      |      |      |      |      |      | Y      |        | No      |
| 05.37 | 25.837 |               | Hybrid ARQ Type II/III (Iub/Iur aspects)   |      |      |      |      |      |      | Y      |        | No      |
| 05.37 | 25.937 |               | UTRAN TDD low chiprate   |      |      |      |      |      |      | Y      |        | No      |
| 05.38 | 25.838 |               | Node B Synchronisation for TDD (Iub/Iur aspects)                                       |      |      |      |      |      |      | Y      |        | No      |
| 05.38 | 25.938 |               | Terminal power saving features   |      |      |      |      |      |      | Y      |        | No      |
| 05.39 | 25.839 |               | Uplink Synchronous Transmission Scheme (USTS) (Iur/Iub aspects)                        |      |      |      |      |      |      | Y      |        | No      |
| 05.40 | 25.840 |               | Terminal power saving features   |      |      |      |      |      |      | Y      |        | No      |
| 05.41 | 25.141 |               | Base station conformance testing (FDD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.41 | 25.841 |               | DSCH power control improvement in soft handover  |      |      |      |      |      |      | Y      |        | No      |
| 05.41 | 25.941 |               | Document structure   |      |      |      |      |      | Y    |        |        | No      |
| 05.42 | 25.142 |               | Base station conformance testing (TDD)   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.42 | 25.442 |               | UTRAN Implementation Specific O&M Transport  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.42 | 25.842 |               | Smart antenna  |      |      |      |      |      |      | Y      |        | No      |
| 05.42 | 25.942 |               | RF system scenarios  |      |      |      |      |      | Y    | Y      |        | No      |
| 05.43 | 25.143 |               | UTRA Repeater; Conformance testing   |      |      |      |      |      |      | Y      |        | No      |
| 05.43 | 25.843 |               | 1,28 Mcps TDD UE Radio Access Capabilities   |      |      |      |      |      |      | Y      |        | No      |
| 05.43 | 25.943 |               | Deployment aspects   |      |      |      |      |      |      | Y      |        | No      |
| 05.44 | 25.844 |               | Radio access bearer support enhancements   |      |      |      |      |      |      | Y      |        | No      |
| 05.44 | 25.944 |               | Channel coding and multiplexing examples   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.45 | 25.845 |               | FDD RACH and AICH performance requirements   |      |      |      |      |      |      | Y      |        | No      |
| 05.45 | 25.945 |               | RF requirements for low chip rate TDD option   |      |      |      |      |      |      | Y      |        | No      |
| 05.46 | 25.846 |               | CPCH performance   |      |      |      |      |      |      | w      |        | Yes     |
| 05.46 | 25.946 |               | RAB Quality of Service Negotiation over Iu   |      |      |      |      |      |      | Y      |        | No      |
| 05.47 | 25.847 |               | UE positioning enhancements  |      |      |      |      |      |      | Y      |        | No      |

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| 05.48 | 25.848 |               | Physical Layer Aspects of UTRA High Speed Downlink Packet Access   |      |      |      |      |      |      | Y      |        | No      |
| 05.49 | 25.849 |               | DSCH power control improvement in soft handover  |      |      |      |      |      |      | Y      |        | No      |
| 05.50 | 05.50  |               | Background for RF Requirements   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 05.50 | 25.450 |               | UTRAN IuPC interface general aspects and principles  |      |      |      |      |      |      |        | Y      | No      |
| 05.50 | 25.850 |               | UE positioning in UTRAN IuB/IuR protocol aspects   |      |      |      |      |      |      | Y      |        | No      |
| 05.50 | 25.950 |               | UTRA high speed downlink packet access   |      |      |      |      |      |      | Y      |        | No      |
| 05.50 | 45.050 | 05.50         | Background for RF Requirements   |      |      |      |      |      |      | Y      |        | No      |
| 05.51 | 25.451 |               | UTRAN IuPC interface layer 1   |      |      |      |      |      |      |        | Y      | No      |
| 05.51 | 25.851 |               | RAB Quality of Service Renegotiation over Iu   |      |      |      |      |      |      | Y      |        | No      |
| 05.51 | 25.951 |               | Base Station classification (FDD)  |      |      |      |      |      |      | Y      |        | No      |
| 05.52 | 25.452 |               | UTRAN IuPC interface signalling transport  |      |      |      |      |      |      |        | Y      | No      |
| 05.52 | 25.852 |               | Radio access bearer support enhancements for the Iu  |      |      |      |      |      |      | Y      |        | No      |
| 05.52 | 25.952 |               | Base Station classification (TDD)  |      |      |      |      |      |      | w      | Y      | No      |
| 05.53 | 25.053 |               | Tandem Free Operation (TFO); Service description; Stage 2  |      |      |      |      |      | w    |        |        | Yes     |
| 05.53 | 25.453 |               | UTRAN IuPC interface Positioning Calculation Application Part (PCAP) signalling                                      |      |      |      |      |      |      |        | Y      | No      |
| 05.53 | 25.853 |               | Delay budget within the access stratum   |      |      |      |      |      | Y    | Y      |        | No      |
| 05.53 | 25.953 |               | TrFO/TFO   |      |      |      |      |      |      | Y      |        | No      |
| 05.54 | 25.854 |               | Uplink Synchronous Transmission Scheme (USTS)  |      |      |      |      |      |      |        | Y      | No      |
| 05.54 | 25.954 |               | Migration to modification procedure  |      |      |      |      |      |      | Y      |        | No      |
| 05.55 | 25.855 |               | High Speed Downlink Packet Access (HSDPA); Overall UTRAN description   |      |      |      |      |      |      |        | Y      | No      |
| 05.56 | 05.56  |               | CTS-FP Radio Sub-system  |      |      |      | Y    | Y    |      |        |        | No      |
| 05.56 | 25.856 |               | High Speed Downlink Packet Access (HSDPA); Layer 2 and 3 aspects   |      |      |      |      |      |      |        | Y      | No      |
| 05.56 | 25.956 |               | UTRA repeater: Planning guidelines and system analysis   |      |      |      |      |      |      | Y      |        | No      |
| 05.56 | 45.056 | 05.56         | CTS-FP Radio Sub-system  |      |      |      |      |      |      | Y      |        | No      |
| 05.57 | 25.857 |               | UE positioning enhancements  |      |      |      |      |      |      |        | Y      | No      |
| 05.58 | 25.858 |               | Physical layer aspects of UTRA High Speed Downlink Packet Access   |      |      |      |      |      |      |        | Y      | No      |
| 05.59 | 25.859 |               | User Equipment positioning enhancements for 1,28 Mcps TDD  |      |      |      |      |      |      |        | Y      | No      |
| 05.68 | 25.868 |               | Node B synchronization for 1,28 Mcps, TDD  |      |      |      |      |      |      |        | Y      | No      |
| 05.69 | 25.869 |               | RAN WG1 report on Tx diversity solutions for multiple antennas   |      |      |      |      |      |      |        | Y      | No      |
| 05.70 | 25.870 |               | Enhancement on the DSCH Hard Split mode  |      |      |      |      |      |      |        | Y      | No      |
| 05.71 | 25.371 |               | LMU signalling   |      |      |      |      |      |      | w      |        | Yes     |
| 05.75 | 25.875 |               | NAS node selector function   |      |      |      |      |      |      |        | Y      | No      |
| 05.76 | 25.876 |               | Multiple-Input Multiple-Output Antenna Processing for HSDPA  |      |      |      |      |      |      |        | Y      | No      |
| 05.77 | 25.877 |               | High Speed Downlink Packet Access (HSDPA) - IuB/IuR Protocol Aspects   |      |      |      |      |      |      |        | Y      | No      |
| 05.78 | 25.878 |               | RL Timing Adjustment   |      |      |      |      |      |      |        | Y      | No      |
| 05.79 | 25.879 |               | Separation of resource reservation and radio link activation   |      |      |      |      |      |      |        | Y      | No      |
| 05.80 | 25.880 |               | Traffic Termination Point Swapping   |      |      |      |      |      |      |        | Y      | No      |
| 05.81 | 25.881 |               | Improvement of Radio Resource Management across RNS and RNS/BSS  |      |      |      |      |      |      |        | Y      | No      |
| 05.82 | 25.882 |               | 1,28 Mcps TDD option base station classification   |      |      |      |      |      |      |        | Y      | No      |
| 05.83 | 25.883 |               | Direct Transport Bearers Between SRNC and Node-B   |      |      |      |      |      |      |        | Y      | No      |
| 05.84 | 25.884 |               | IuR Neighbouring cell reporting efficiency optimisation  |      |      |      |      |      |      |        | Y      | No      |
| 05.85 | 25.885 |               | UMTS 1800 / 1900 MHz work items report   |      |      |      |      |      |      |        | Y      | No      |
| 05.86 | 25.886 |               | Small technical enhancements and improvements work item  |      |      |      |      |      |      |        | Y      | No      |
| 05.90 | 05.90  |               | GSM Electro Magnetic Compatibility (EMC) Considerations  |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 05.90 | 25.990 |               | Vocabulary for UTRAN   |      |      |      |      |      | Y    |        |        | No      |
| 05.91 | 25.991 |               | Feasibility study on the mitigation of the effect of common pilot channel (CPICH) interference at the user equipment |      |      |      |      |      |      |        | Y      | No      |
| 06.01 | 06.01  |               | Full Rate Speech Processing Functions  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |



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| 06.01 | 26.101 | 06.01         | AMR speech Codec; Frame Structure   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.01 | 26.201 |               | AMR speech codec, wideband; Frame structure   |      |      |      |      |      |      |        | Y      | No      |
| 06.01 | 26.901 |               | AMR wideband speech codec; Feasibility study report   |      |      |      |      |      |      | Y      |        | No      |
| 06.01 | 46.001 | 06.01         | Full Rate Speech Processing Functions   |      |      |      |      |      |      | Y      |        | No      |
| 06.02 | 06.02  |               | Half Rate Speech Processing Functions   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.02 | 26.102 | 06.02         | AMR speech Codec; Interface to lu and Uu  |      |      |      |      |      | Y    | Y      |        | No      |
| 06.02 | 26.202 |               | AMR speech codec, wideband; Interface to lu and Uu  |      |      |      |      |      |      |        | Y      | No      |
| 06.02 | 46.002 | 06.02         | Half Rate Speech Processing Functions   |      |      |      |      |      |      | Y      |        | No      |
| 06.03 | 26.103 |               | Codec lists   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 06.04 | 26.104 |               | AMR speech Codec; Floating point C-Code   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.06 | 06.06  |               | Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.06 | 46.006 | 06.06         | Half-rate speech: ANSI-C code for GSM half-rate speech codec  |      |      |      |      |      |      | Y      |        | No      |
| 06.07 | 06.07  |               | Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.07 | 46.007 | 06.07         | Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec  |      |      |      |      |      |      | Y      |        | No      |
| 06.08 | 06.08  |               | Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec                                      |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.08 | 46.008 | 06.08         | Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec                                      |      |      |      |      |      |      | Y      |        | No      |
| 06.10 | 06.10  |               | Full Rate Speech Transcoding  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.10 | 26.110 | 06.10         | Codec for Circuit switched Multimedia Telephony Service; General Description  |      |      |      |      |      | Y    | Y      |        | No      |
| 06.10 | 46.010 | 06.10         | Full-rate speech transcoding  |      |      |      |      |      |      | Y      |        | No      |
| 06.11 | 06.11  |               | Substitution and Muting of Lost Frames for Full Rate Speech Channels  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.11 | 26.111 | 06.11         | Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324                                       |      |      |      |      |      | Y    | Y      |        | No      |
| 06.11 | 26.911 |               | Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide                                 |      |      |      |      |      | Y    | Y      |        | No      |
| 06.11 | 46.011 | 06.11         | Substitution and Muting of Lost Frames for Full Rate Speech Channels  |      |      |      |      |      |      | Y      |        | No      |
| 06.12 | 06.12  |               | Comfort Noise Aspects for Full Rate Speech Traffic Channels   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.12 | 26.112 | 06.12         | Codec(s) for Circuit Switched Multimedia Telephony Service; Call Set-up Requirements                                  |      |      |      |      |      | w    |        |        | Yes     |
| 06.12 | 26.912 |               | Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G |      |      |      |      |      | Y    | Y      |        | No      |
| 06.12 | 46.012 | 06.12         | Comfort Noise Aspects for Full Rate Speech Traffic Channels   |      |      |      |      |      |      | Y      |        | No      |
| 06.13 | 26.913 |               | Quantitative performance evaluation of real-time packet switched multimedia services over 3G                          |      |      |      |      |      | w    | w      |        | Yes     |
| 06.15 | 26.115 |               | Transmission Delay and Echo Control Planning For Speech and Multi-Media Services                                      |      |      |      |      |      | w    | Y      |        | No      |
| 06.15 | 26.915 |               | Echo Control For Speech and Multi-Media Services  |      |      |      |      |      | Y    |        |        | No      |
| 06.20 | 06.20  |               | Half Rate Speech Transcoding  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.20 | 26.920 |               | Architectural Model for the 3G Transcoders  |      |      |      |      |      |      | w      |        | Yes     |
| 06.20 | 46.020 | 06.20         | Half Rate Speech Transcoding  |      |      |      |      |      |      | Y      |        | No      |
| 06.21 | 06.21  |               | Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels                        |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.21 | 26.121 | 06.21         | Technical Specification for Tandem Free Operation within 3G networks  |      |      |      |      |      | w    |        |        | Yes     |
| 06.21 | 46.021 | 06.21         | Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels                        |      |      |      |      |      |      | Y      |        | No      |
| 06.22 | 06.22  |               | Comfort Noise Aspects for Half Rate Speech Traffic Channels   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.22 | 26.122 | 06.22         | Technical Specification for Tandem Free Operation between 3G and 2G networks  |      |      |      |      |      | w    |        |        | Yes     |
| 06.22 | 46.022 | 06.22         | Comfort Noise Aspects for Half Rate Speech Traffic Channels   |      |      |      |      |      |      | Y      |        | No      |
| 06.26 | 26.226 |               | Global text telephony; Transport of text in the voice channel   |      |      |      |      |      |      | w      | Y      | No      |
| 06.30 | 26.230 |               | Global text telephony; Cellular text telephone modem transmitter C-code description                                   |      |      |      |      |      |      | w      | Y      | No      |

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| 06.31 | <b>06.31</b>  |               | Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels                | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.31 | <b>26.131</b> | 06.31         | Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics       |      |      |      |      |      | Y    | Y      | Y      | No      |
| 06.31 | <b>26.231</b> |               | Global text telephony; Cellular text telephone modem minimum performance requirements |      |      |      |      |      |      |        | Y      | No      |
| 06.31 | <b>46.031</b> | 06.31         | Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels                |      |      |      |      |      |      | Y      |        | No      |
| 06.32 | <b>06.32</b>  |               | Voice Activity Detection (VAD)  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.32 | <b>26.132</b> | 06.32         | Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 06.32 | <b>46.032</b> | 06.32         | Voice Activity Detection (VAD)  |      |      |      |      |      |      | Y      |        | No      |
| 06.33 | <b>26.133</b> |               | Wide band speech telephony terminal acoustic characteristics                          |      |      |      |      |      | w    |        |        | Yes     |
| 06.33 | <b>26.233</b> |               | End-to-end transparent streaming service; General description                         |      |      |      |      |      |      | Y      |        | No      |
| 06.34 | <b>26.134</b> |               | Wide band speech telephony terminal acoustic test specification                       |      |      |      |      |      | w    |        |        | Yes     |
| 06.34 | <b>26.234</b> |               | End-to-end transparent streaming service; Protocols and codecs                        |      |      |      |      |      |      | Y      |        | No      |
| 06.35 | <b>26.135</b> |               | Terminal Display and Camera Characteristics for H.324 Narrow-band Video Telephony     |      |      |      |      |      | w    |        |        | Yes     |
| 06.35 | <b>26.235</b> |               | Packet switched conversational multimedia applications; Default codecs                |      |      |      |      |      |      | w      | Y      | No      |
| 06.36 | <b>26.136</b> |               | Terminal Display and Camera Test Specifications for H.324 Narrow-band Video Telephony |      |      |      |      |      | w    |        |        | Yes     |
| 06.37 | <b>26.137</b> |               | Terminal Display and Camera Characteristics for H.323 Narrow-band Video Telephony     |      |      |      |      |      | w    |        |        | Yes     |
| 06.38 | <b>26.138</b> |               | Terminal Display and Camera Test Specifications for H.323 Narrow-band Video Telephony |      |      |      |      |      | w    |        |        | Yes     |
| 06.41 | <b>06.41</b>  |               | Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels                |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.41 | <b>46.041</b> | 06.41         | Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels                |      |      |      |      |      |      | Y      |        | No      |
| 06.42 | <b>06.42</b>  |               | Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels                  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.42 | <b>46.042</b> | 06.42         | Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels                  |      |      |      |      |      |      | Y      |        | No      |
| 06.51 | <b>06.51</b>  |               | GSM Enhanced full rate speech processing functions: General description               |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.51 | <b>46.051</b> | 06.51         | GSM Enhanced full rate speech processing functions: General description               |      |      |      |      |      |      | Y      |        | No      |
| 06.53 | <b>06.53</b>  |               | ANSI-C code for the GSM Enhanced full rate speech codec                               |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.53 | <b>46.053</b> | 06.53         | ANSI-C code for the GSM Enhanced full rate speech codec                               |      |      |      |      |      |      | Y      |        | No      |
| 06.54 | <b>06.54</b>  |               | Test sequences for the GSM Enhanced Full Rate (EFR)                                   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.54 | <b>46.054</b> | 06.54         | Test sequences for the GSM Enhanced Full Rate (EFR)                                   |      |      |      |      |      |      | Y      |        | No      |
| 06.55 | <b>06.55</b>  |               | Performance characterisation of the GSM EFR Speech Codec                              |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.55 | <b>46.055</b> | 06.55         | Performance characterisation of the GSM EFR Speech Codec                              |      |      |      |      |      |      | Y      |        | No      |
| 06.60 | <b>06.60</b>  |               | Enhanced full rate speech transcoding   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.60 | <b>46.060</b> | 06.60         | Enhanced full rate speech transcoding   |      |      |      |      |      |      | Y      |        | No      |
| 06.61 | <b>06.61</b>  |               | Substitution and muting of lost frames for enhanced full rate speech traffic channels |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.61 | <b>46.061</b> | 06.61         | Substitution and muting of lost frames for enhanced full rate speech traffic channels |      |      |      |      |      |      | Y      |        | No      |
| 06.62 | <b>06.62</b>  |               | Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels            |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.62 | <b>46.062</b> | 06.62         | Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels            |      |      |      |      |      |      | Y      |        | No      |
| 06.71 | <b>06.71</b>  |               | Adaptive Multi-Rate speech processing functions; General description                  |      |      |      |      | Y    |      |        |        | No      |
| 06.71 | <b>26.071</b> | 06.71         | AMR speech Codec; General description   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.71 | <b>26.171</b> | 06.71         | AMR speech codec, wideband; General description                                       |      |      |      |      |      |      |        | Y      | No      |
| 06.73 | <b>06.73</b>  |               | ANSI-C code for the GSM Adaptive Multi Rate (AMR) speech codec                        |      |      |      |      | Y    |      |        |        | No      |
| 06.73 | <b>26.073</b> | 06.73         | AMR speech Codec; C-source code   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.73 | <b>26.173</b> | 06.73         | AMR speech codec, wideband; C-source code   |      |      |      |      |      |      |        | Y      | No      |

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| 06.74        | <b>06.74</b>  |               | Test sequences for the GSM Adaptive Multi Rate (AMR) speech codec   |      |      |      |      | Y    |      |        |        | No      |
| 06.74        | <b>26.074</b> | 06.74         | AMR speech Codec; Test sequences  |      |      |      |      |      | Y    | Y      |        | No      |
| 06.74        | <b>26.174</b> | 06.74         | AMR speech codec, wideband; Test sequences  |      |      |      |      |      |      |        | Y      | No      |
| 06.75        | <b>06.75</b>  |               | AMR performan characterisation  |      |      |      |      | Y    |      |        |        | No      |
| 06.75        | <b>26.075</b> | 06.75         | AMR speech Codec; Performance Charaterization of the GSM AMR Speech Codec   |      |      |      |      |      | w    |        |        | Yes     |
| 06.75        | <b>26.975</b> |               | Performance characterization of the AMR speech codec  |      |      |      |      |      | Y    | Y      |        | No      |
| 06.76        | <b>06.76</b>  |               | Adaptive Multi-Rate (AMR) speech codec; Study phase report  |      |      |      |      | Y    | Y    |        |        | No      |
| 06.76        | <b>26.976</b> |               | Results of the AMR wideband (AMR-W) selection phase   |      |      |      |      |      |      |        | Y      | No      |
| 06.76        | <b>46.076</b> | 06.76         | Adaptive Multi-Rate (AMR) speech codec; Study phase report  |      |      |      |      |      |      | Y      |        | No      |
| 06.77        | <b>06.77</b>  |               | Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder                       |      |      |      |      |      | Y    |        |        | No      |
| 06.77        | <b>26.077</b> | 06.77         | Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder                       |      |      |      |      |      |      | Y      |        | No      |
| 06.78        | <b>06.78</b>  |               | Results of the AMR noise suppression selection phase  |      |      |      |      |      | Y    |        |        | No      |
| 06.78        | <b>26.078</b> | 06.78         | Results of the AMR noise suppression selection phase  |      |      |      |      |      |      | w      |        | Yes     |
| 06.78        | <b>26.978</b> |               | Results of the AMR noise suppression selection phase  |      |      |      |      |      |      | Y      |        | No      |
| 06.81        | <b>06.81</b>  |               | Discontinuous Transmission (DTX) for encanced full rate speech traffic channels                                   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.81        | <b>46.081</b> | 06.81         | Discontinuous Transmission (DTX) for encanced full rate speech traffic channels                                   |      |      |      |      |      |      | Y      |        | No      |
| 06.82        | <b>06.82</b>  |               | Voice Activity Detection (VAD) for encanced full rate speech traffic channels                                     |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 06.82        | <b>46.082</b> | 06.82         | Voice Activity Detection (VAD) for encanced full rate speech traffic channels                                     |      |      |      |      |      |      | Y      |        | No      |
| 06.85        | <b>06.85</b>  |               | Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 06.85        | <b>46.085</b> | 06.85         | Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation |      |      |      |      |      |      | Y      |        | No      |
| 06.90        | <b>06.90</b>  |               | Adaptive Multi-Rate speech transcoding  |      |      |      |      | Y    |      |        |        | No      |
| 06.90        | <b>26.090</b> | 06.90         | AMR speech Codec; Transcoding Functions   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.90        | <b>26.190</b> | 06.90         | Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions               |      |      |      |      |      |      |        | Y      | No      |
| 06.91        | <b>06.91</b>  |               | Substitution and muting of lost frames for AMR speech traffic channels  |      |      |      |      | Y    |      |        |        | No      |
| 06.91        | <b>26.091</b> | 06.91         | AMR speech Codec; Error concealment of lost frames  |      |      |      |      |      | Y    | Y      |        | No      |
| 06.91        | <b>26.191</b> | 06.91         | AMR speech codec, wideband; Error concealment of lost frames  |      |      |      |      |      |      |        | Y      | No      |
| 06.92        | <b>06.92</b>  |               | Comfort noise aspects for Adaptive Multi-Rate speech traffic channels   |      |      |      |      | Y    |      |        |        | No      |
| 06.92        | <b>26.092</b> | 06.92         | AMR speech Codec; comfort noise for AMR Speech Traffic Channels   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.92        | <b>26.192</b> | 06.92         | Mandatory Speech Codec speech processing functions AMR Wideband Speech Codec; Comfort noise aspects               |      |      |      |      |      |      |        | Y      | No      |
| 06.93        | <b>06.93</b>  |               | Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels                                  |      |      |      |      | Y    |      |        |        | No      |
| 06.93        | <b>26.093</b> | 06.93         | AMR speech Codec; Source Controlled Rate operation  |      |      |      |      |      | Y    | Y      |        | No      |
| 06.93        | <b>26.193</b> | 06.93         | AMR speech codec, wideband; Source Controlled Rate operation  |      |      |      |      |      |      |        | Y      | No      |
| 06.94        | <b>06.94</b>  |               | Voice Activity Detector (VAD) for Adaptive Multi Rate (AMR) speech traffic channels                               |      |      |      |      | Y    |      |        |        | No      |
| 06.94        | <b>26.094</b> | 06.94         | AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels   |      |      |      |      |      | Y    | Y      |        | No      |
| 06.94        | <b>26.194</b> | 06.94         | Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD)       |      |      |      |      |      |      |        | Y      | No      |

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| 07.01 | <b>07.01</b>  |             | General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 07.01 | <b>27.001</b> | 07.01       | General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.01 | <b>27.901</b> |             | Report on Terminal Interfaces - An Overview   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.02 | <b>07.02</b>  |             | Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities   | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 07.02 | <b>27.002</b> | 07.02       | Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.03 | <b>07.03</b>  |             | Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities  | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 07.03 | <b>27.003</b> | 07.03       | Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities  |      |      |      |      |      | Y    | Y      |        | No      |
| 07.03 | <b>27.103</b> | 07.03       | Wide Area Network Synchronization   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.03 | <b>27.903</b> |             | Discussion of synchronization standards   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.04 | <b>27.104</b> |             | vObjects and other constructs for data synchronization  |      |      |      |      |      |      |        | Y      | No      |
| 07.05 | <b>07.05</b>  |             | Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)                |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 07.05 | <b>27.005</b> | 07.05       | Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)                  |      |      |      |      |      | Y    | Y      |        | No      |
| 07.06 | <b>07.06</b>  |             | Use of the V Series Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface at the Mobile Station (MS) for Mobile Termination (MT) configuration |      | w    |      |      |      |      |        |        | Yes     |
| 07.07 | <b>07.07</b>  |             | AT Command set for GSM Mobile Equipment (ME)  |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 07.07 | <b>27.007</b> | 07.07       | AT command set for 3G User Equipment (UE)   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.08 | <b>07.08</b>  |             | GSM Application Programming Interface   |      |      | Y    |      |      | w    |        |        | No      |
| 07.10 | <b>07.10</b>  |             | Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol   |      |      |      | Y    | Y    |      |        |        | No      |
| 07.10 | <b>27.010</b> | 07.10       | Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)   |      |      |      |      |      | Y    | Y      |        | No      |
| 07.26 | <b>27.226</b> |             | Global Text telephony; Terminal aspects   |      |      |      |      |      |      |        | w      | Yes     |
| 07.57 | <b>07.57</b>  |             | Mobile Station Application Execution Environment (MExE); Stage 3  |      |      | w    |      |      |      |        |        | Yes     |
| 07.60 | <b>07.60</b>  |             | General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS  |      |      | Y    | Y    | Y    |      |        |        | No      |
| 07.60 | <b>27.060</b> | 07.60       | Packet domain; Mobile Station (MS) supporting Packet Switched services  |      |      |      |      |      | Y    | Y      |        | No      |
| 08.01 | <b>08.01</b>  |             | General Aspects on the BSS-MSC Interface  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.01 | <b>48.001</b> | 08.01       | General Aspects on the BSS-MSC Interface  |      |      |      |      |      |      | Y      |        | No      |
| 08.02 | <b>08.02</b>  |             | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.02 | <b>48.002</b> | 08.02       | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles   |      |      |      |      |      |      | Y      | Y      | No      |
| 08.04 | <b>08.04</b>  |             | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.04 | <b>48.004</b> | 08.04       | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification  |      |      |      |      |      |      | Y      |        | No      |
| 08.06 | <b>08.06</b>  |             | Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.06 | <b>48.006</b> | 08.06       | Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface   |      |      |      |      |      |      | Y      |        | No      |
| 08.08 | <b>08.08</b>  |             | Mobile-services Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.08 | <b>48.008</b> | 08.08       | Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification   |      |      |      |      |      |      | Y      | Y      | No      |
| 08.14 | <b>08.14</b>  |             | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1   |      |      |      | Y    | Y    | Y    |        |        | No      |

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| 08.14 | <b>48.014</b> | 08.14         | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1 |      |      |      |      |      |      | Y      |        | No      |
| 08.16 | <b>08.16</b>  |               | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service      |      |      |      | Y    | Y    | Y    |        |        | No      |
| 08.16 | <b>48.016</b> | 08.16         | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service      |      |      |      |      |      |      | Y      | Y      | No      |
| 08.18 | <b>08.18</b>  |               | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol              |      |      |      | Y    | Y    | Y    |        |        | No      |
| 08.18 | <b>48.018</b> | 08.18         | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol              |      |      |      |      |      |      | Y      | Y      | No      |
| 08.20 | <b>08.20</b>  |               | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface                                  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.20 | <b>28.020</b> | 08.20         | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface                                  |      |      |      |      |      |      | Y      |        | No      |
| 08.20 | <b>48.020</b> | 08.20         | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface                                  |      |      |      |      |      |      | Y      |        | No      |
| 08.31 | <b>08.31</b>  |               | Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification        |      |      |      |      | Y    | Y    |        |        | No      |
| 08.31 | <b>48.031</b> | 08.31         | Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification        |      |      |      |      |      |      | Y      |        | No      |
| 08.51 | <b>08.51</b>  |               | Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.51 | <b>48.051</b> | 08.51         | Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects   |      |      |      |      |      |      | Y      |        | No      |
| 08.52 | <b>08.52</b>  |               | Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles                                      | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.52 | <b>48.052</b> | 08.52         | Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles                                      |      |      |      |      |      |      | Y      |        | No      |
| 08.54 | <b>08.54</b>  |               | BSC-BTS : Layer 1 Structure of Physical Circuits  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.54 | <b>48.054</b> | 08.54         | BSC-BTS : Layer 1 Structure of Physical Circuits  |      |      |      |      |      |      | Y      |        | No      |
| 08.56 | <b>08.56</b>  |               | BSC-BTS Layer 2 Specification   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.56 | <b>48.056</b> | 08.56         | BSC-BTS Layer 2 Specification   |      |      |      |      |      |      | Y      |        | No      |
| 08.58 | <b>08.58</b>  |               | Base Station Controller - Base Tranceiver Station (BCS-BTS) Interface Layer 3 Specification                                       | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.58 | <b>48.058</b> | 08.58         | Base Station Controller - Base Tranceiver Station (BCS-BTS) Interface Layer 3 Specification                                       |      |      |      |      |      |      | Y      | Y      | No      |
| 08.59 | <b>08.59</b>  |               | BSC-BTS O&M Signalling Transport  | Y    | w    |      |      |      |      |        |        | No      |
| 08.60 | <b>08.60</b>  |               | Inband Control of Remote Transcoders and Rate Adaptors for EFR/FR   | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.60 | <b>48.060</b> | 08.60         | In-band control of remote transcoders and rate adaptors for full rate traffic channels  |      |      |      |      |      |      | Y      |        | No      |
| 08.61 | <b>08.61</b>  |               | Inband Control of Remote Transcoder and Rate Adaptors; (Half Rate)  |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 08.61 | <b>48.061</b> | 08.61         | In-band control of remote transcoders and rate adaptors for half rate traffic channels  |      |      |      |      |      |      | Y      |        | No      |
| 08.62 | <b>08.62</b>  |               | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3   |      |      |      |      | Y    | Y    |        |        | No      |
| 08.62 | <b>28.062</b> | 08.62         | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3   |      |      |      |      |      | w    | Y      |        | No      |
| 08.62 | <b>48.062</b> | 08.62         | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3   |      |      |      |      |      |      | w      |        | Yes     |
| 08.64 | <b>08.64</b>  |               | GPRS support node - BSS protocol (SGSN_BSS) interface; BSSGP layer 3  |      |      |      | w    |      |      |        |        | Yes     |
| 08.71 | <b>08.71</b>  |               | Location services (LCS) SMLC-BSS interface L 3  |      |      |      |      | Y    | Y    |        |        | No      |
| 08.71 | <b>48.071</b> | 08.71         | Location services (LCS) SMLC-BSS interface L 3  |      |      |      |      |      |      | Y      |        | No      |
| 09.01 | <b>09.01</b>  |               | General Network Interworking Scenarios  | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 09.01 | <b>49.001</b> | 09.01         | General Network Interworking Scenarios  |      |      |      |      |      |      | Y      |        | No      |
| 09.02 | <b>09.02</b>  |               | Mobile Application Part ( MAP) Specification  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.02 | <b>29.002</b> | 09.02         | Mobile Application Part (MAP) specification   |      |      |      |      |      | Y    | Y      |        | No      |
| 09.02 | <b>29.202</b> |               | Signalling System No. 7 (SS7) signalling transport in core network; Stage 3   |      |      |      |      |      |      | Y      |        | No      |

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| 09.03        | <b>09.03</b>  |             | Signalling Requirements on Interworking between the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)                                  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.03        | <b>29.203</b> |             | Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)   |      |      |      |      |      |      |        | w      | Yes     |
| 09.03        | <b>29.903</b> |             | Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)   |      |      |      |      |      |      | Y      |        | No      |
| 09.04        | <b>09.04</b>  |             | Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN)  | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.04        | <b>29.004</b> | 09.04       | Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN)  |      |      |      |      |      | w    |        |        | Yes     |
| 09.05        | <b>09.05</b>  |             | Interworking between the PLMN and the PSPDN for PAD Access   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.05        | <b>29.005</b> | 09.05       | Interworking between the Public Land Mobile Network (PLMN) and the Packet Switched Public Data Network (PSPDN) for Packet Assembly/Disassembly (PAD) facility access   |      |      |      |      |      | w    |        |        | Yes     |
| 09.05        | <b>29.205</b> |             | Application of Q.1900 series to bearer-independent circuit-switched core network architecture; Stage 3   |      |      |      |      |      |      | Y      |        | No      |
| 09.06        | <b>09.06</b>  |             | Interworking between a Public Land Mobile Network (PLMN) and a Packet Switched Public Data Network/Intergrated Services digital Network (PSPDN/ISDN) for Support of Packet Switched Data Transmission Services         |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.06        | <b>29.006</b> | 09.06       | Interworking between a PLMN and the ISDN or PSTN for support of Packet Switched data transmission services   |      |      |      |      |      | w    |        |        | Yes     |
| 09.07        | <b>09.07</b>  |             | General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)                                     | Y    | Y    | Y    | Y    | Y    | w    |        |        | No      |
| 09.07        | <b>29.007</b> | 09.07       | General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)                                      |      |      |      |      |      | Y    | Y      |        | No      |
| 09.07        | <b>29.207</b> |             | End to end quality of service; stage 3   |      |      |      |      |      |      |        | Y      | No      |
| 09.08        | <b>09.08</b>  |             | Application of the Base Station System Application Part (BSSAP) on the E-Interface   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 09.08        | <b>29.108</b> | 09.08       | Application of the Radio Access Network Application Part (RANAP) on the E-interface  |      |      |      |      |      | Y    | Y      |        | No      |
| 09.08        | <b>49.008</b> | 09.08       | Application of the Base Station System Application Part (BSSAP) on the E-Interface   |      |      |      |      |      |      | Y      |        | No      |
| 09.09        | <b>09.09</b>  |             | Detailed Signalling Interworking within the PLMN and with the PSTN/ISDN  | Y    |      |      |      |      |      |        |        | No      |
| 09.10        | <b>09.10</b>  |             | Information Element Mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MCS) Signalling Procedures and the Mobile Application Part (MAP) | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.10        | <b>29.010</b> | 09.10       | Information Element Mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MCS) Signalling Procedures and the Mobile Application Part (MAP) |      |      |      |      |      | Y    | Y      |        | No      |
| 09.11        | <b>09.11</b>  |             | Signalling Interworking for Supplementary Services   | Y    | Y    | Y    | Y    | Y    |      |        |        | No      |
| 09.11        | <b>29.011</b> | 09.11       | Signalling Interworking for Supplementary Services   |      |      |      |      |      | Y    | Y      |        | No      |
| 09.12        | <b>09.12</b>  |             | Application of ISUP Version 2 for the ISDN-PLMN (GSM) Signalling   |      | Y    | w    |      |      |      |        |        | No      |
| 09.13        | <b>09.13</b>  |             | Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols  |      |      |      | Y    | Y    |      |        |        | No      |
| 09.13        | <b>29.013</b> | 09.13       | Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols  |      |      |      |      |      | Y    | Y      |        | No      |

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| 09.14    | 09.14     |               | Application of ISUP Version 3 for the ISDN-PLMN (GSM) Signalling   |      |      |      |      | Y    | w    |        |        | No      |
| 09.14    | 29.414    |               | Core network Nb nata transport and transport signalling  |      |      |      |      |      |      | Y      |        | No      |
| 09.15    | 29.415    |               | Core network Nb interface user plane protocols   |      |      |      |      |      |      | Y      |        | No      |
| 09.16    | 09.16     |               | General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface network service specification |      |      |      | Y    | Y    |      |        |        | No      |
| 09.16    | 29.016    | 09.16         | Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification  |      |      |      |      |      | Y    | Y      |        | No      |
| 09.18    | 09.18     |               | General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification         |      |      |      | Y    | Y    | w    |        |        | No      |
| 09.18    | 29.018    | 09.18         | Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification  |      |      |      |      |      | Y    | Y      |        | No      |
| 09.19    | 29.119    |               | GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)   |      |      |      |      |      | Y    | Y      |        | No      |
| 09.20    | 09.20     |               | Support of Shared Data Interworking Function   |      |      | w    |      |      |      |        |        | Yes     |
| 09.20    | 29.120    | 09.20         | Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3   |      |      |      |      |      | Y    | Y      |        | No      |
| 09.26    | 29.226    |               | reserved   |      |      |      |      |      |      |        | Y      | No      |
| 09.28    | 29.228    |               | IP Multimedia (IM) Subsystem Cx Interface; Signalling flows and message contents   |      |      |      |      |      |      |        | Y      | No      |
| 09.29    | 29.229    |               | Cx Interface based on the DIAMETER protocol; Protocol details  |      |      |      |      |      |      |        | Y      | No      |
| 09.31    | 09.31     |               | Location Services LCS Extension (BSSAP-LE)   |      |      |      |      | Y    | Y    |        |        | No      |
| 09.31    | 49.031    | 09.31         | Location Services LCS Extension (BSSAP-LE)   |      |      |      |      |      |      | Y      | Y      | No      |
| 09.32    | 29.232    |               | Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3  |      |      |      |      |      |      | Y      |        | No      |
| 09.60    | 09.60     |               | General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface  |      |      | w    | Y    | Y    |      |        |        | No      |
| 09.60    | 29.060    | 09.60         | GPRS Tunnelling protocol (GTP) across the Gn and Gp interface  |      |      |      |      |      | Y    | Y      |        | No      |
| 09.61    | 09.61     |               | General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet                           |      |      |      | Y    | Y    |      |        |        | No      |
| 09.61    | 29.061    | 09.61         | Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based services and Packet Data Networks (PDN)                           |      |      |      |      |      | Y    | Y      |        | No      |
| 09.62    | 29.162    |               | Interworking between the IM CN subsystem and IP networks   |      |      |      |      |      |      |        | Y      | No      |
| 09.63    | 29.163    |               | Interworking between the IM CN subsystem and CS networks   |      |      |      |      |      |      |        | Y      | No      |
| 09.78    | 09.78     |               | CAMEL Application Part phase 2 (stage 3)   |      |      | Y    | Y    | Y    |      |        |        | No      |
| 09.78    | 29.078    | 09.78         | Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification                                |      |      |      |      |      | Y    | Y      |        | No      |
| 09.90    | 09.90     |               | Interworking between Phase 1 Infrastructure and Phase 2 Mobile Stations (MS)   |      | Y    | Y    | w    |      |      |        |        | No      |
| 09.91    | 09.91     |               | Interworking Aspects of the SIM/ME Interface Between Phase 1 and Phase 2   |      | Y    |      |      |      |      |        |        | No      |
| 09.92    | 09.92     |               | GSM Phase 1 Mobile Station interworking with Phase 2 Networks  |      | w    |      |      |      |      |        |        | Yes     |
| 09.94    | 09.94     |               | Recommended Infrastructure Measures to Overcome Specific Phase 1 Mobile Stations Faults  |      | Y    | w    | w    |      |      |        |        | No      |
| 09.95    | 09.95     |               | Interworking between modified PLMN supporting GPRS and legacy GPRS mobiles   |      |      |      | Y    | Y    |      |        |        | No      |
| 09.98    | 29.198    |               | Open Service Architecture (OSI) Application Programming Interface (API) - Part 1   |      |      |      |      |      | Y    |        |        | No      |
| 09.98    | 29.998    |               | Open Services Architecture API part 2  |      |      |      |      |      | Y    |        |        | No      |
| 09.98-01 | 29.198-01 |               | Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview  |      |      |      |      |      |      | Y      |        | No      |
| 09.98-01 | 29.998-01 |               | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping             |      |      |      |      |      |      | Y      |        | No      |

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| 09.98-02     | <b>29.198-02</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data   |      |      |      |      |      |      | Y      |        | No      |
| 09.98-03     | <b>29.198-03</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework   |      |      |      |      |      |      | Y      |        | No      |
| 09.98-04     | <b>29.198-04</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control  |      |      |      |      |      |      | Y      |        | No      |
| 09.98-04-1   | <b>29.998-04-1</b> |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping     |      |      |      |      |      |      | Y      |        | No      |
| 09.98-04-2   | <b>29.998-04-2</b> |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 2:                        |      |      |      |      |      |      |        | Y      | No      |
| 09.98-05     | <b>29.198-05</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 5: Generic user interaction  |      |      |      |      |      |      | Y      |        | No      |
| 09.98-05-1   | <b>29.998-05-1</b> |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to CAP Mapping |      |      |      |      |      |      | Y      |        | No      |
| 09.98-05-2   | <b>29.998-05-2</b> |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2:                    |      |      |      |      |      |      |        | Y      | No      |
| 09.98-05-3   | <b>29.998-05-3</b> |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3                     |      |      |      |      |      |      |        | Y      | No      |
| 09.98-05-4   | <b>29.998-05-4</b> |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 4: API to SMS Mapping |      |      |      |      |      |      | Y      |        | No      |
| 09.98-06     | <b>29.198-06</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility  |      |      |      |      |      |      | Y      |        | No      |
| 09.98-06     | <b>29.998-06</b>   |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location – User Status Service Mapping to MAP              |      |      |      |      |      |      | Y      |        | No      |
| 09.98-07     | <b>29.198-07</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities   |      |      |      |      |      |      | Y      |        | No      |
| 09.98-08     | <b>29.198-08</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control  |      |      |      |      |      |      | Y      |        | No      |
| 09.98-08     | <b>29.998-08</b>   |             | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP                     |      |      |      |      |      |      | Y      |        | No      |
| 09.98-09     | <b>29.198-09</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 9: Generic messaging SCF   |      |      |      |      |      |      |        | Y      | No      |
| 09.98-10     | <b>29.198-10</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 10: Connectivity manager SCF   |      |      |      |      |      |      |        | Y      | No      |
| 09.98-11     | <b>29.198-11</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management   |      |      |      |      |      |      | Y      |        | No      |
| 09.98-12     | <b>29.198-12</b>   |             | Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging   |      |      |      |      |      |      | Y      |        | No      |
| 10.00        | <b>10.00</b>       |             | Digital Cellular Telecommunication System Feature Description  |      |      | Y    |      | Y    |      |        |        | No      |
| 10.01        | <b>10.01</b>       |             | GSM features and releases  |      |      |      | Y    |      |      |        |        | No      |
| 10.01        | <b>30.801</b>      |             | Overall Project Plan   |      |      |      |      |      |      | w      |        | Yes     |
| 10.02        | <b>10.02</b>       |             | Guidelines for the modification of the Mobile Application Part (MAP) in phase 2+   |      |      | Y    | Y    |      |      |        |        | No      |
| 10.02        | <b>30.002</b>      | 10.02       | Guidelines for the modification of the Mobile Application Part (MAP)   |      |      |      |      |      |      | Y      |        | Yes     |
| 10.02        | <b>30.802</b>      |             | Project plan on Bearer Services and QoS  |      |      |      |      |      |      | w      |        | Yes     |
| 10.04        | <b>30.504</b>      |             | Work Plan and Study Items - RAN WG4  |      |      |      |      |      |      | Y      |        | No      |
| 10.04        | <b>30.804</b>      |             | Project plan on GSM/UMTS Interoperation and Mobility Management  |      |      |      |      |      |      | w      |        | Yes     |
| 10.06        | <b>30.806</b>      |             | Project plan on Location based services  |      |      |      |      |      |      | w      |        | Yes     |



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| 10.08   | 30.808   |             | Project plan on Packet Architecture and Circuit Architecture  |      |      |      |      |      |      | w      |        | Yes     |
| 10.10   | 30.810   |             | Project plan on Security  |      |      |      |      |      |      | w      |        | Yes     |
| 10.12   | 30.812   |             | Project plan on Services and Service platforms  |      |      |      |      |      |      | w      |        | Yes     |
| 10.14   | 10.14    |             | System overview for 14.4 kbit/s Work Item   |      |      | Y    |      |      |      |        |        | No      |
| 10.17   | 10.17    |             | General Packet Radio Service (GPRS); Charging in GPRS   |      |      |      | w    |      |      |        |        | Yes     |
| 10.20   | 10.20    |             | Lawful Interception requirements for GSM  |      |      | Y    | w    |      |      |        |        | Yes     |
| 10.31   | 30.531   |             | Work Plan and Study Items - RAN WG3   |      |      |      |      |      | Y    |        |        | No      |
| 10.43   | 10.43    |             | Support of Localised Service Area (SoLSA); Work Item Status   |      |      |      |      |      | w    |        |        | Yes     |
| 10.43   | 50.043   | 10.43       | Support of Localised Service Area (SoLSA); Work Item Status   |      |      |      |      |      |      | w      |        | No      |
| 10.56   | 10.56    |             | Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1  |      |      |      |      | Y    | Y    |        |        | No      |
| 10.56   | 50.056   | 10.56       | Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1  |      |      |      |      |      |      | w      |        | Yes     |
| 10.57   | 10.57    |             | Project scheduling and open issues: Mobile Station Execution Environment (MExE)   |      |      |      |      | w    | w    |        |        | Yes     |
| 10.59   | 10.59    |             | Project scheduling and open issues for EDGE   |      |      |      |      |      | Y    |        |        | No      |
| 10.59   | 50.059   | 10.59       | Project scheduling and open issues for EDGE   |      |      |      |      |      |      | Y      |        | No      |
| 10.60   | 10.60    |             | General Packet Radio Services (GPRS); Project Scheduling and Open Issues  |      |      | w    | w    |      |      |        |        | No      |
| 10.66   | 10.66    |             | Support of Mobile Number Portability (MNP); Project plan  |      |      | w    |      |      |      |        |        | No      |
| 10.68   | 10.68    |             | Introduction to the services: enhanced Multi-Level Precedence and Pre-emption (eMLPP), Voice Group Call Service (VGCS), Voice Broadcast Service (VBS) |      |      | w    |      |      |      |        |        | Yes     |
| 10.70   | 10.70    |             | GSM Adaptive Multi-Rate Speech Codec (AMR); Project schedule and open issues for AMR  |      |      |      |      | Y    |      |        |        | No      |
| 10.71   | 10.71    |             | Project scheduling and open issues: Location services (LCS)   |      |      |      |      | w    |      |        |        | No      |
| 10.76   | 10.76    |             | Noise suppression for the AMR codec; Project scheduling and open issues   |      |      |      |      |      | Y    |        |        | No      |
| 10.78   | 10.78    |             | Project scheduling and open issues: CAMEL   |      |      |      |      | w    |      |        |        | Yes     |
| 10.87   | 10.87    |             | User to User Signalling (UUS)   |      |      |      |      | w    |      |        |        | Yes     |
| 10.89   | 10.89    |             | GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;   |      |      |      |      |      | Y    |        |        | No      |
| 10.89   | 50.089   | 10.89       | GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;   |      |      |      |      |      |      | w      |        | No      |
| 10.94   | 10.94    |             | Follow Me supplementary service   |      |      |      |      | w    |      |        |        | Yes     |
| 10.99   | 10.99    |             | GERAN project plan and open issues  |      |      |      |      |      |      |        |        | Yes     |
| 10.99   | 50.099   | 10.99       | GERAN project plan and open issues  |      |      |      |      |      |      | Y      |        | No      |
| 11.00   | 31.900   |             | SIM/USIM internal and external interworking aspects   |      |      |      |      |      | Y    |        |        | No      |
| 11.01   | 11.01    |             | Mobile station type approval procedure principles (Candidate NET 10 part 1)   | w    |      |      |      |      |      |        |        | Yes     |
| 11.01   | 31.101   | 11.01       | UICC-terminal interface; Physical and logical characteristics   |      |      |      |      |      | Y    | Y      |        | No      |
| 11.02   | 31.102   |             | Characteristics of the USIM Application   |      |      |      |      |      | Y    | Y      |        | No      |
| 11.10   | 11.10    |             | Mobile Station Conformity Specification   | Y    |      |      |      |      |      |        |        | No      |
| 11.10   | 31.110   | 11.10       | Numbering system for telecommunication IC card applications   |      |      |      |      |      | Y    | Y      |        | No      |
| 11.10-1 | 11.10-1  |             | Mobile station (MS) conformance specification; Part1: Conformance specification   |      | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 11.10-1 | 51.010-1 | 11.10-1     | Mobile Station (MS) conformance specification; Part 1: Conformance specification  |      |      |      |      |      |      | Y      |        | No      |
| 11.10-2 | 11.10-2  |             | Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification                    |      | Y    |      |      |      | w    |        |        | No      |
| 11.10-2 | 51.010-2 | 11.10-2     | Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification                    |      |      |      |      |      |      | Y      |        | No      |
| 11.10-3 | 11.10-3  |             | Mobile Station (MS) Conformance Specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)  |      | Y    | Y    |      |      | w    |        |        | No      |
| 11.10-3 | 51.010-3 | 11.10-3     | Mobile Station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)  |      |      |      |      |      |      | Y      |        | No      |
| 11.10-4 | 11.10-4  |             | Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance specification  |      |      | Y    |      |      | w    |        |        | No      |

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| 11.10-4 | 51.010-4 | 11.10-4     | Mobile Station (MS) conformance specification; Part 4: SIM Application Toolkit conformance specification                  |      |      |      |      |      |      | Y      |        | No      |
| 11.11   | 11.11    |             | Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface                                     | Y    | Y    | Y    | Y    | Y    | Y    |        |        | No      |
| 11.11   | 31.111   | 11.11       | USIM Application Toolkit (USAT)   |      |      |      |      |      | Y    | Y      |        | No      |
| 11.11   | 51.011   | 11.11       | Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface                                     |      |      |      |      |      |      | Y      |        | No      |
| 11.12   | 11.12    |             | Specification on the 3 Volt subscriber identity module Equipment (SIM-ME) Interface                                       |      | Y    | w    |      |      |      |        |        | No      |
| 11.12   | 31.112   | 11.12       | USAT Interpreter Architecture Description; Stage 2  |      |      |      |      |      |      | Y      |        | No      |
| 11.13   | 11.13    |             | Test specification for SIM API for Java card  |      |      |      |      | Y    |      |        |        | No      |
| 11.13   | 31.113   | 11.13       | USAT interpreter byte codes   |      |      |      |      |      |      | Y      |        | No      |
| 11.13   | 51.013   | 11.13       | Test specification for SIM API for Java card  |      |      |      |      |      |      | Y      |        | No      |
| 11.14   | 11.14    |             | Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface     |      |      | Y    | Y    | Y    | Y    |        |        | No      |
| 11.14   | 31.114   | 11.14       | USAT interpreter protocol and administration  |      |      |      |      |      |      |        | Y      | No      |
| 11.14   | 51.014   | 11.14       | Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit           |      |      |      |      |      |      | w      |        | Yes     |
| 11.16   | 11.16    |             | Conformity Specifications for Transparent Facsimile Group 3 Adaptors  |      | w    |      |      |      |      |        |        | Yes     |
| 11.17   | 11.17    |             | SIM test specification  |      |      |      |      | Y    | w    |        |        | No      |
| 11.18   | 11.18    |             | Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface                          |      |      |      |      | Y    | w    |        |        | No      |
| 11.19   | 11.19    |             | CTS SIM Fixed Part  |      |      |      |      | Y    |      |        |        | No      |
| 11.20   | 11.20    |             | GSM DCS 1800 Base Station Specification   | w    |      |      |      |      |      |        |        | No      |
| 11.20   | 11.20    |             | GSM DCS 1800 Base Station Specification   | Y    |      |      |      |      |      |        |        | No      |
| 11.20   | 31.120   | 11.20       | UICC-terminal interface; Physical, electrical and logical test specification  |      |      |      |      |      | Y    | Y      |        | Yes     |
| 11.21   | 11.21    |             | Base Station System (BSS) equipment specification; Radio aspects  |      | Y    | Y    | w    | Y    | Y    |        |        | No      |
| 11.21   | 31.121   | 11.21       | UICC-terminal interface; USIM application test specification  |      |      |      |      |      | Y    | Y      |        | No      |
| 11.21   | 51.021   | 11.21       | GSM radio aspects base station system equipment specification   |      |      |      |      |      |      | Y      |        | No      |
| 11.22   | 11.22    |             | GSM Base Station and Ancillary Equipment, Physical and Electrical Parameters, Application of Standards and Guidance Notes |      | Y    |      |      |      |      |        |        | No      |
| 11.22   | 31.122   | 11.22       | USIM conformance test specification   |      |      |      |      |      | Y    | Y      |        | No      |
| 11.23   | 11.23    |             | GSM Signalling Aspects Base Station System equipment Specification  |      | Y    |      |      |      |      |        |        | No      |
| 11.24   | 11.24    |             | GSM Transcoding and Rate Adaptation: Base Station System Equipment Specification  |      | Y    |      |      |      |      |        |        | No      |
| 11.25   | 11.25    |             | The GSM Base Station System (BSS) Equipment specification Half-rate speech  |      | w    |      |      |      |      |        |        | Yes     |
| 11.26   | 11.26    |             | GSM Repeater Equipment Specification  |      | Y    | Y    |      |      | Y    |        |        | No      |
| 11.26   | 51.026   | 11.26       | GSM Repeater Equipment Specification  |      |      |      |      |      |      | Y      |        | No      |
| 11.30   | 11.30    |             | Mobile Services Switching Centre  | Y    |      |      |      |      |      |        |        | No      |
| 11.31   | 11.31    |             | Home Location Register Specification  | Y    |      |      |      |      |      |        |        | No      |
| 11.32   | 11.32    |             | Visitor Location Register Specification   | Y    |      |      |      |      |      |        |        | No      |
| 11.40   | 11.40    |             | DCS 1800 System Simulator Conformity Specification  | Y    |      |      |      |      |      |        |        | No      |
| 11.56   | 11.56    |             | CTS phase 1, CTS Fixed Part Tests   |      |      |      | w    |      |      |        |        | Yes     |
| 12.00   | 12.00    |             | Objectives and Structure of GSM Public Land Mobile Network (PLMN) Management  |      | Y    |      |      |      |      |        |        | No      |
| 12.00   | 32.200   |             | Telecommunication management; Charging management; Charging principles  |      |      |      |      |      |      | Y      |        | No      |
| 12.00   | 32.300   |             | Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects                       |      |      |      |      |      |      | Y      |        | No      |
| 12.00   | 32.600   |             | Telecommunication Management; Configuration Management; 3G configuration management; Concept and main requirements        |      |      |      |      |      |      | Y      |        | No      |
| 12.00   | 32.800   |             | Management level procedures and interaction with UTRAN  |      |      |      |      |      |      | Y      |        | No      |
| 12.01   | 12.01    |             | Common Aspects of Public Land Mobile Network (PLMN) Management  |      | Y    |      |      |      |      |        |        | No      |
| 12.01   | 32.101   | 12.01       | 3G Telecom Management principles and high level requirements  |      |      |      |      |      | Y    | Y      |        | No      |

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| 12.01        | <b>32.301</b>   |             | Telecommunication Management; Configuration Management; Notification IRP: requirements   |      |      |      |      |      |      | Y      |        | No      |
| 12.01        | <b>32.401</b>   |             | Telecommunication management; Performance Management (PM); Concept and requirements  |      |      |      |      |      |      | Y      |        | No      |
| 12.01        | <b>32.601</b>   |             | Telecommunication Management; Configuration Management; Basic CM IRP: requirements   |      |      |      |      |      |      | Y      |        | No      |
| 12.01        | <b>32.801</b>   |             | Performance management   |      |      |      |      |      |      |        | w      | Yes     |
| 12.01-1      | <b>32.301-1</b> |             | Telecommunication Management; Configuration Management; Notification IRP: requirements   |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-1      | <b>32.601-1</b> |             | Telecommunication Management; Configuration Management; Part 1: Basic CM IRP: requirements   |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-2      | <b>32.301-2</b> |             | Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1            |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-2      | <b>32.601-2</b> |             | Telecommunication Management; Configuration Management; Part 2: Basic configuration management IRP information model                               |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-3      | <b>32.301-3</b> |             | Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1           |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-3      | <b>32.601-3</b> |             | Telecommunication Management; Configuration Management; Part 3: Basic configuration management IRP: CORBA solution set                             |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-4      | <b>32.301-4</b> |             | Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1            |      |      |      |      |      |      | w      |        | Yes     |
| 12.01-4      | <b>32.601-4</b> |             | Telecommunication Management; Configuration Management; Part 4: Basic configuration management IRP CMIP solution set                               |      |      |      |      |      |      | w      |        | Yes     |
| 12.02        | <b>12.02</b>    |             | Subscriber, Mobile Equipment (ME) and Services Data Administration   |      | Y    | Y    |      |      |      |        |        | No      |
| 12.02        | <b>32.102</b>   | 12.02       | 3G Telecom Management Architecture   |      |      |      |      |      | Y    | Y      |        | No      |
| 12.02        | <b>32.302</b>   |             | Telecommunication Management; Configuration Management; Notification Integration Reference Point; Information Service version 1                    |      |      |      |      |      |      | Y      |        | No      |
| 12.02        | <b>32.402</b>   |             | Telecommunication management; Performance Management (PM); Performance measurements - GSM  |      |      |      |      |      |      | Y      |        | No      |
| 12.02        | <b>32.602</b>   |             | Telecommunication Management; Configuration Management; Basic configuration management IRP information model                                       |      |      |      |      |      |      | Y      |        | No      |
| 12.02-1      | <b>32.602-1</b> |             | Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements                                      |      |      |      |      |      |      | w      |        | Yes     |
| 12.02-2      | <b>32.602-2</b> |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service        |      |      |      |      |      |      | w      |        | Yes     |
| 12.02-3      | <b>32.602-3</b> |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set         |      |      |      |      |      |      | w      |        | Yes     |
| 12.02-4      | <b>32.602-4</b> |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set          |      |      |      |      |      |      | w      |        | Yes     |
| 12.02-5      | <b>32.602-5</b> |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition |      |      |      |      |      |      | w      |        | Yes     |
| 12.03        | <b>12.03</b>    |             | Security Management  |      | Y    |      |      | Y    | Y    |        |        | No      |
| 12.03        | <b>32.303</b>   |             | Telecommunication Management; Configuration Management; Notification Integration Reference Point; CORBA solution set version 1:1                   |      |      |      |      |      |      | Y      |        | No      |
| 12.03        | <b>32.403</b>   |             | Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM                                   |      |      |      |      |      |      | Y      |        | No      |
| 12.03        | <b>32.603</b>   |             | Telecommunication Management; Configuration Management; Basic configuration management IRP: CORBA solution set                                     |      |      |      |      |      |      | Y      |        | No      |
| 12.04        | <b>12.04</b>    |             | Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)  |      | Y    |      |      | Y    | Y    |        |        | No      |
| 12.04        | <b>32.104</b>   | 12.04       | 3G Performance Management  |      |      |      |      |      | Y    | w      |        | No      |

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| 12.04   | 32.304   |             | Telecommunication Management; Configuration Management; Notification Integration Reference Point: CMIP Solution Set Version 1:1                |      |      |      |      |      |      | Y      |        | No      |
| 12.04   | 32.604   |             | Telecommunication Management; Configuration Management; Basic configuration management IRP CMIP solution set                                   |      |      |      |      |      |      | Y      |        | No      |
| 12.05   | 12.05    |             | Subscriber Related Call and Event Data   |      | Y    | Y    | Y    | Y    |      |        |        | No      |
| 12.05   | 32.005   | 12.05       | Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain                               |      |      |      |      |      | Y    |        |        | No      |
| 12.05   | 32.105   | 12.05       | 3G charging and billing; Stage 2 description   |      |      |      |      |      |      | w      |        | Yes     |
| 12.05   | 32.205   |             | 3G charging data description for the CS domain   |      |      |      |      |      |      | Y      |        | No      |
| 12.06   | 12.06    |             | Network Configuration Management and Administration  |      | Y    |      |      |      |      |        |        | No      |
| 12.06   | 32.106   | 12.06       | 3G Configuration Management  |      |      |      |      |      |      | w      |        | Yes     |
| 12.06-1 | 32.106-1 |             | Telecommunication Management; Configuration Management; Part 1: 3G configuration management; Concept and requirements                          |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-2 | 32.106-2 |             | Telecommunication Management; Configuration Management; Part 2: Notification Integration Reference Point; Information Service version 1        |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-3 | 32.106-3 |             | Telecommunication Management; Configuration Management; Part 3: Notification Integration Reference Point; CORBA solution set version 1:1       |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-4 | 32.106-4 |             | Telecommunication Management; Configuration Management; Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1        |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-5 | 32.106-5 |             | Telecommunication Management; Configuration Management; Part 5: Basic Configuration Management IRP information model (including NRM) version 1 |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-6 | 32.106-6 |             | Telecommunication Management; Configuration Management; Part 6: Basic Configuration Management IRP CORBA solution set version 1:1              |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-7 | 32.106-7 |             | Telecommunication Management; Configuration Management; Part 7: Basic Configuration Management IRP CMIP solution set version 1:1               |      |      |      |      |      | Y    | w      |        | No      |
| 12.06-8 | 32.106-8 |             | Telecommunication Management; Configuration Management; Part 8: Name convention for Managed Objects  |      |      |      |      |      | Y    | w      |        | No      |
| 12.07   | 12.07    |             | Public Land Mobile Network (PLMN) Quality of Service   | w    |      |      |      |      |      |        |        | No      |
| 12.08   | 12.08    |             | Subscriber and Equipment trace   |      | Y    | Y    |      |      |      |        |        | No      |
| 12.08   | 32.008   | 12.08       | Subscriber and Equipment trace   |      |      |      |      |      | w    |        |        | Yes     |
| 12.10   | 12.10    |             | Maintenance Provisions for Operational Integrity of MSs  | Y    |      |      |      |      |      |        |        | No      |
| 12.11   | 12.11    |             | Fault management of the Base Station System (BSS)  |      | Y    |      | Y    |      |      |        |        | No      |
| 12.11   | 32.111   | 12.11       | 3G Fault Management  |      |      |      |      |      | w    | Y      |        | Yes     |
| 12.11   | 32.311   |             | Telecommunication management; Generic IRP management; Requirements   |      |      |      |      |      |      | Y      |        | No      |
| 12.11   | 32.611   |             | Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements                                  |      |      |      |      |      |      | Y      |        | No      |
| 12.11-1 | 32.111-1 |             | Telecommunication Management; Fault Management; Part 1: 3G fault management requirements   |      |      |      |      |      | Y    | Y      |        | No      |
| 12.11-2 | 32.111-2 |             | Telecommunication Management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service                                 |      |      |      |      |      | Y    | Y      |        | No      |
| 12.11-3 | 32.111-3 |             | Telecommunication Management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1                      |      |      |      |      |      | Y    | Y      |        | No      |
| 12.11-4 | 32.111-4 |             | Telecommunication Management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set                                   |      |      |      |      |      | Y    | Y      |        | No      |
| 12.12   | 32.112   |             | Telecommunication Management; Fault Management; Alarm Integration Reference Point: Information Service   |      |      |      |      |      |      |        | Y      | No      |
| 12.12   | 32.312   |             | Telecommunication management; Generic IRP management; Information service  |      |      |      |      |      |      | Y      |        | No      |

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| 12.12        | <b>32.612</b>   |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service        |      |      |      |      |      |      | Y      |        | No      |
| 12.12-1      | <b>32.112-1</b> |             | Telecommunication management; Generic IRP management; Part 1: Requirements   |      |      |      |      |      |      | w      |        | Yes     |
| 12.12-2      | <b>32.112-2</b> |             | Telecommunication management; Generic IRP management; Part 2: Information service  |      |      |      |      |      |      | w      |        | Yes     |
| 12.13        | <b>12.13</b>    |             | Maintenance of the Mobile-services Switching Centre  | Y    |      |      |      |      |      |        |        | No      |
| 12.13        | <b>32.113</b>   | 12.13       | Telecommunication Management; Fault Management; Alarm Integration Reference Point: CORBA solution set version 1:1                                  |      |      |      |      |      |      |        | Y      | No      |
| 12.13        | <b>32.613</b>   |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set         |      |      |      |      |      |      | Y      |        | No      |
| 12.14        | <b>12.14</b>    |             | Maintenance of Location Registers  | Y    |      |      |      |      |      |        |        | No      |
| 12.14        | <b>32.114</b>   | 12.14       | Telecommunication Management; Fault Management; Alarm Integration Reference Point: CMIP solution set   |      |      |      |      |      |      |        | Y      | No      |
| 12.14        | <b>32.614</b>   |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set          |      |      |      |      |      |      | Y      |        | No      |
| 12.15        | <b>12.15</b>    |             | General Packet Radio Service (GPRS); GPRS Charging   |      |      |      | Y    | Y    |      |        |        | No      |
| 12.15        | <b>32.015</b>   | 12.15       | Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain                                    |      |      |      |      |      | Y    |        |        | No      |
| 12.15        | <b>32.215</b>   |             | 3G Telecom Management; Charging management; Charging data description for the Packet Switched (PS) domain  |      |      |      |      |      |      | Y      |        | No      |
| 12.15        | <b>32.615</b>   |             | Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition |      |      |      |      |      |      | Y      |        | No      |
| 12.20        | <b>12.20</b>    |             | Base Station System (BSS) Management Information   |      | Y    |      |      |      |      |        |        | No      |
| 12.20-1      | <b>32.620-1</b> |             | Telecommunication Management; Configuration Management; Part 1: Generic network resources IRP: requirements  |      |      |      |      |      |      | w      |        | Yes     |
| 12.20-2      | <b>32.620-2</b> |             | Telecommunication Management; Configuration Management; Part 2: Generic network resources IRP: NRM   |      |      |      |      |      |      | w      |        | Yes     |
| 12.20-3      | <b>32.620-3</b> |             | Telecommunication Management; Configuration Management; Part 3: Generic network resources IRP: CORBA solution set                                  |      |      |      |      |      |      | w      |        | Yes     |
| 12.20-4      | <b>32.620-4</b> |             | Telecommunication Management; Configuration Management; Part 4: Generic network resources: IRP CMIP solution set                                   |      |      |      |      |      |      | w      |        | Yes     |
| 12.21        | <b>12.21</b>    |             | Network Management (NM) Procedures and Messages on the A-bis Interface   |      | Y    | Y    |      |      |      |        |        | No      |
| 12.21        | <b>32.621</b>   |             | Telecommunication Management; Configuration Management; Generic network resources IRP: requirements  |      |      |      |      |      |      | Y      |        | No      |
| 12.21-1      | <b>32.621-1</b> |             | Telecommunication Management; Configuration Management; Part 1: Core network resources IRP: requirements   |      |      |      |      |      |      | w      |        | Yes     |
| 12.21-2      | <b>32.621-2</b> |             | Telecommunication Management; Configuration Management; Core Network Resources IRP: NRM  |      |      |      |      |      |      | w      |        | Yes     |
| 12.21-3      | <b>32.621-3</b> |             | Telecommunication Management; Configuration Management; Part 3: Core network resources IRP: CORBA solution set                                     |      |      |      |      |      |      | w      |        | Yes     |
| 12.21-4      | <b>32.621-4</b> |             | Telecommunication Management; Configuration Management; Part 4: Core network resources IRP: CMIP solution set                                      |      |      |      |      |      |      | w      |        | Yes     |
| 12.22        | <b>12.22</b>    |             | Interworking of GSM Network Management (NM) Procedures and Messages at the Base Station Controller (BSC)   |      | Y    |      |      |      |      |        |        | No      |
| 12.22        | <b>32.622</b>   |             | Telecommunication Management; Configuration Management; Generic network resources IRP: NRM   |      |      |      |      |      |      | Y      |        | No      |

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| 12.22-1      | <b>32.622-1</b> |               | Telecommunication Management; Configuration Management; Part 1: UTRAN network resources IRP: requirements       |      |      |      |      |      |      | w      |        | Yes     |
| 12.22-2      | <b>32.622-2</b> |               | Telecommunication Management; Configuration Management; Part 2: UTRAN network resources IRP: NRM                |      |      |      |      |      |      | w      |        | Yes     |
| 12.22-3      | <b>32.622-3</b> |               | Telecommunication Management; Configuration Management; Part 3: UTRAN network resources IRP: CORBA solution set |      |      |      |      |      |      | w      |        | Yes     |
| 12.22-4      | <b>32.622-4</b> |               | Telecommunication Management; Configuration Management; Part 4: UTRAN network resources IRP: CMIP solution set  |      |      |      |      |      |      | w      |        | Yes     |
| 12.23        | <b>32.623</b>   |               | Telecommunication Management; Configuration Management; Generic network resources IRP: CORBA solution set       |      |      |      |      |      |      | Y      |        | No      |
| 12.23-1      | <b>32.623-1</b> |               | Telecommunication Management; Configuration Management; Part 1: GERAN network resources IRP: requirements       |      |      |      |      |      |      | w      |        | Yes     |
| 12.23-2      | <b>32.623-2</b> |               | Telecommunication Management; Configuration Management; Part 2: GERAN network resources IRP: NRM                |      |      |      |      |      |      | w      |        | Yes     |
| 12.23-3      | <b>32.623-3</b> |               | Telecommunication Management; Configuration Management; Part 3: GERAN network resources IRP: CORBA solution set |      |      |      |      |      |      | w      |        | Yes     |
| 12.23-4      | <b>32.623-4</b> |               | Telecommunication Management; Configuration Management; Part 4: GERAN network resources IRP: CMIP solution set  |      |      |      |      |      |      | w      |        | Yes     |
| 12.24        | <b>32.624</b>   |               | Telecommunication Management; Configuration Management; Generic network resources: IRP CMIP solution set        |      |      |      |      |      |      | Y      |        | No      |
| 12.25        | <b>32.225</b>   |               | Telecom management; Charging management; Charging data description for the IMS domain                           |      |      |      |      |      |      |        | Y      | No      |
| 12.30        | <b>12.30</b>    |               | ETSI Object Identifier Tree; Mobile Domain O&M  |      | Y    |      |      |      |      |        |        | No      |
| 12.31        | <b>32.631</b>   |               | Telecommunication Management; Configuration Management; Core network resources IRP: requirements                |      |      |      |      |      |      | Y      |        | No      |
| 12.32        | <b>32.632</b>   |               | Telecommunication Management; Configuration Management; Core Network Resources IRP: NRM                         |      |      |      |      |      |      | Y      |        | No      |
| 12.33        | <b>32.633</b>   |               | Telecommunication Management; Configuration Management; Core network resources IRP: CORBA solution set          |      |      |      |      |      |      | Y      |        | No      |
| 12.34        | <b>32.634</b>   |               | Telecommunication Management; Configuration Management; Core network resources IRP: CMIP solution set           |      |      |      |      |      |      | Y      |        | No      |
| 12.35        | <b>32.235</b>   |               | Telecommunication management; Charging management; Charging data description for application services           |      |      |      |      |      |      | Y      |        | No      |
| 12.40        | <b>32.140</b>   |               | 3G Service Management Requirements & Framework  |      |      |      |      |      |      | w      | Y      | No      |
| 12.41        | <b>32.641</b>   |               | Telecommunication Management; Configuration Management; UTRAN network resources IRP: requirements               |      |      |      |      |      |      | Y      |        | No      |
| 12.42        | <b>32.642</b>   |               | Telecommunication Management; Configuration Management; UTRAN network resources IRP: NRM                        |      |      |      |      |      |      | Y      |        | No      |
| 12.43        | <b>32.643</b>   |               | Telecommunication Management; Configuration Management; UTRAN network resources IRP: CORBA solution set         |      |      |      |      |      |      | Y      |        | No      |
| 12.44        | <b>32.644</b>   |               | Telecommunication Management; Configuration Management; UTRAN network resources IRP: CMIP solution set          |      |      |      |      |      |      | Y      |        | No      |
| 12.51        | <b>32.651</b>   |               | Telecommunication Management; Configuration Management; GERAN network resources IRP: requirements               |      |      |      |      |      |      | Y      |        | No      |
| 12.52        | <b>32.652</b>   |               | Telecommunication Management; Configuration Management; GERAN network resources IRP: NRM                        |      |      |      |      |      |      | Y      |        | No      |
| 12.53        | <b>32.653</b>   |               | Telecommunication Management; Configuration Management; GERAN network resources IRP: CORBA solution set         |      |      |      |      |      |      | Y      |        | No      |
| 12.54        | <b>32.654</b>   |               | Telecommunication Management; Configuration Management; GERAN network resources IRP: CMIP solution set          |      |      |      |      |      |      | Y      |        | No      |

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| 12.71   | <b>12.71</b>   |             | Location Services (LCS); Location services management  |      |      |      |      | Y    | Y    |        |        | No      |
| 12.71   | <b>52.071</b>  | 12.71       | Location Services (LCS); Location services management  |      |      |      |      |      |      | Y      |        | No      |
| 13.00   | <b>33.200</b>  |             | Network Domain Security - MAP  |      |      |      |      |      |      | Y      |        | No      |
| 13.00   | <b>33.800</b>  |             | Principles for Network Domain Security   |      |      |      |      |      |      | Y      | Y      | No      |
| 13.00   | <b>33.900</b>  |             | Guide to 3G security   |      |      |      |      |      | w    | w      | Y      | No      |
| 13.01   | <b>13.01</b>   |             | Attachment requirements for Global System for Mobile communications (GSM); Part 1: Mobile stations in the GSM 900 and DCS 1 800 bands; Access                                |      | Y    |      |      |      |      |        |        | No      |
| 13.01   | <b>33.201</b>  |             | Access domain security   |      |      |      |      |      |      |        | Y      | No      |
| 13.01   | <b>33.901</b>  |             | Criteria for cryptographic Algorithm design process  |      |      |      |      | Y    | Y    |        |        | No      |
| 13.01-1 | <b>13.01-1</b> |             | Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access  |      | Y    |      |      |      |      |        |        | No      |
| 13.01-2 | <b>13.01-2</b> |             | Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access   |      | Y    |      |      |      |      |        |        | No      |
| 13.02   | <b>13.02</b>   |             | Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access   |      | Y    |      |      |      |      |        |        | No      |
| 13.02   | <b>33.102</b>  | 13.02       | 3G security; Security architecture   |      |      |      |      |      | Y    | Y      |        | No      |
| 13.02   | <b>33.902</b>  |             | Formal Analysis of the 3G Authentication Protocol  |      |      |      |      |      | Y    | Y      |        | No      |
| 13.02-1 | <b>13.02-1</b> |             | Attachment requirements; Telephony   |      | w    |      |      |      |      |        |        | Yes     |
| 13.02-2 | <b>13.02-2</b> |             | Attachment requirements (CDCS 1800); Telephony   |      | w    |      |      |      |      |        |        | Yes     |
| 13.03   | <b>33.103</b>  |             | Security Integration Guidelines  |      |      |      |      |      | Y    | Y      |        | No      |
| 13.03   | <b>33.203</b>  |             | Access Security for IP based services  |      |      |      |      |      |      |        | Y      | No      |
| 13.03   | <b>33.903</b>  |             | Access Security for IP based services  |      |      |      |      |      |      | Y      | Y      | No      |
| 13.04   | <b>33.904</b>  |             | Report on the Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms   |      |      |      |      |      |      | Y      |        | No      |
| 13.05   | <b>33.105</b>  |             | Cryptographic Algorithm requirements   |      |      |      |      |      | Y    | Y      |        | No      |
| 13.06   | <b>33.106</b>  |             | Lawful interception requirements   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 13.07   | <b>33.107</b>  |             | Lawful interception architecture and functions   |      |      |      |      |      | Y    | Y      | Y      | No      |
| 13.08   | <b>33.108</b>  |             | Lawful Interception; Interface between core network and law agency equipment   |      |      |      |      |      |      |        | Y      | No      |
| 13.08   | <b>33.908</b>  |             | 3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms  |      |      |      |      |      | Y    | Y      |        | No      |
| 13.09   | <b>33.909</b>  |             | 3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions |      |      |      |      |      | Y    | Y      |        | No      |
| 13.10   | <b>33.210</b>  |             | Network Domain Security - IP   |      |      |      |      |      |      |        | Y      | No      |
| 13.11   | <b>13.11</b>   |             | Mobiles stations in the GSM 900 and DCS 1800 bands covering essential requirements under article 3.2 of the R&TTE Directive  |      |      |      |      | Y    |      |        |        | No      |
| 13.20   | <b>33.120</b>  |             | Security Objectives and Principles   |      |      |      |      |      | Y    | Y      |        | No      |
| 13.21   | <b>13.21</b>   |             | Base station systems and repeater equipment covering essential requirements under article 3.2 of the R&TTE directive   |      |      |      |      | Y    | Y    |        |        | No      |
| 13.34   | <b>13.34</b>   |             | Attachment requirements for Global System for Mobile communications (GSM); High Speed Circuit Switched Data (HSCSD) Multislot Mobile Stations; Access                        |      |      | Y    |      |      |      |        |        | No      |
| 13.55   | <b>13.55</b>   |             | Attachment requirements for Cordless Telephony System Fixed Part (CTS-FP); Access  |      |      | w    |      |      |      |        |        | Yes     |
| 13.56   | <b>13.56</b>   |             | Cordless Telephony System Mobile Stations (CTS-MS); Access   |      |      | w    |      |      |      |        |        | No      |
| 13.57   | <b>13.57</b>   |             | unknown  |      |      | w    |      |      |      |        |        | Yes     |
| 13.59   | <b>13.59</b>   |             | Enhanced Data rates for GSM Evolution (EDGE) Mobile Stations; Access   |      |      | w    |      |      |      |        |        | Yes     |
| 13.60   | <b>13.60</b>   |             | Attachment requirements for Global System for Mobile communications (GSM); General Packet Radio Service (GPRS); Mobile stations; Access                                      |      |      | w    |      |      |      |        |        | Yes     |
| 13.67   | <b>13.67</b>   |             | Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access  |      |      | Y    |      |      |      |        |        | No      |

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| 13.68   | 13.68    |               | Attachment requirements for Global System for Mobile communications (GSM); Advanced Speech Call Items (GSM-ASCI) Mobile Stations; Access  |      |      | Y    |      |      |      |        |        | No      |
| 14.07   | 34.907   |               | Report on electrical safety requirements and regulations  |      |      |      |      |      | Y    |        |        | No      |
| 14.08   | 34.108   |               | Common Test Environments for User Equipment (UE) Conformance Testing  |      |      |      |      |      | Y    | Y      |        | No      |
| 14.09   | 34.109   |               | Logical Test Interface (TDD and FDD)  |      |      |      |      |      | Y    | Y      |        | No      |
| 14.10   | 34.910   |               | Conformance Test specifications – Relevant for Regulatory use   |      |      |      |      |      |      | Y      |        | No      |
| 14.21   | 34.121   |               | Terminal Conformance Specification, Radio Transmission and Reception (FDD)  |      |      |      |      |      | Y    | Y      |        | No      |
| 14.22   | 34.122   |               | Terminal Conformance Specification, Radio Transmission and Reception (TDD)  |      |      |      |      |      | Y    | Y      |        | No      |
| 14.23-1 | 34.123-1 |               | UE conformance specification; Part 1: Conformance specification   |      |      |      |      |      | Y    | Y      |        | No      |
| 14.23-2 | 34.123-2 |               | UE conformance specification; Part 2: Implementation conformance statement (ICS)  |      |      |      |      |      | Y    | Y      |        | No      |
| 14.23-3 | 34.123-3 |               | UE conformance specification; Part 3: Abstract test suites (ATs)  |      |      |      |      |      | Y    | Y      |        | No      |
| 14.24   | 34.124   |               | Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment   |      |      |      |      |      | Y    | Y      |        | No      |
| 14.25   | 34.925   |               | Specific Absorption Rate (SAR) requirements and regulations in different regions  |      |      |      |      |      | Y    |        |        | No      |
| 14.26   | 34.926   |               | Table of international EMC requirements   |      |      |      |      |      |      | Y      |        | No      |
| 15.01   | 35.201   |               | Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications  |      |      |      |      |      | Y    | Y      |        | No      |
| 15.02   | 35.202   |               | Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification  |      |      |      |      |      | Y    | Y      |        | No      |
| 15.03   | 35.203   |               | Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data   |      |      |      |      |      | Y    | Y      |        | No      |
| 15.04   | 35.204   |               | Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data  |      |      |      |      |      | Y    | Y      |        | No      |
| 15.05   | 35.205   |               | 3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General                                      |      |      |      |      |      | w    | Y      |        | No      |
| 15.06   | 35.206   |               | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification                      |      |      |      |      |      | w    | Y      |        | No      |
| 15.07   | 35.207   |               | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data                      |      |      |      |      |      | w    | Y      |        | No      |
| 15.08   | 35.208   |               | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data                 |      |      |      |      |      | w    | Y      |        | No      |
| 15.09   | 35.209   |               | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation |      |      |      |      |      | w    |        |        | Yes     |
| 15.09   | 35.909   |               | 3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation |      |      |      |      |      |      | Y      |        | No      |