

SCHEDULE 14 – GSM INTERNATIONAL ROAMING**CONTENTS**

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1. Definitions and Interpretation

- 1.1 In this schedule, except where the context requires otherwise, the following words and expressions shall have the meanings assigned to them respectively as under:

“International Telephony Service” as defined in Section 2 (i) of the Act as in force at the date of this Agreement;

“PTCL Roaming Connection” only such part of a Roaming Connection as is wholly within the control of PTCL;

“IGE” International Gateway Exchange

“Customer” as the context requires: A person having a contract with either or both Parties for the provision of telecommunications services by means of that Party’s System; or A user of telecommunication apparatus directly connected to the PTCL System or the Operator’s System.

“Data Management Amendment” necessary reconfiguration of the PTCL System for access, routing and charging of Signalling Messages;

“Default Interest Rate” four per cent (4%) above the rate per annum of Short Term Federal Bond offered in the last most recent SBP Auction. Such interest shall be calculated on a daily basis;

“GSM” Global System for Mobile Communications as defined by the European Telecommunications Standards Institute;

“GSM Operator” an operator authorized to offer GSM Service;

“GSM Roaming” a facility that enables Mobile Subscribers to enjoy telephony services provided by any GSM operator pursuant to an arrangement between operators;

“GSM Service” mobile telephony services and facilities provided under the GSM specification;

“Operator’s System” the Telecommunication system runs by the Operator pursuant to the Operator’s Licence;

“Roaming Connection” a Signaling Link between the operator and a nominated GSM Operator overseas via a nominated overseas administration using SCCP;

“SCCP” Signaling Connection Control Part as defined in the publication known as the ITU-T Blue Book Volume VI-Fascicle VI.7 Specifications of Signaling System No 7;

“Signaling Link” a link as defined in the publication known as the ITU-T Blue Book Volume VI – Fascicle VI.7 specification of Signaling System No.7;

“Signaling Message” a signaling message as defined in the publication known the ITU-T Blue Book Volume VI Fascicle VI.7 Specifications of Signaling System No. 7 being data necessary to support GSM Roaming;

“MSU” Message Signal Units

“CP’s” Control Processor

“System” the PTCL System or, as the context requires, the operator system;

“Telecommunication System” a telecommunication system within Pakistan as defined in section 2 (u) of the Act;

2. Commencements And Duration

- 2.1 The arrangements specified in clause 4.1 here in after, are for the provision of services set forth herein, as per international standards, shall be reached by the parties hereto. Such final arrangement is contemplated to be reached.

3. Description Of The Service

- 3.1 This Schedule contemplates facilitation of International Roaming to the extent that Signalling Messages enable such a facility to be supported. Examples showing few sketches of international roaming are depicted through Annexes C, D, E & F.
- 3.2 Any PTCL Roaming Connection that PTCL agrees to provide pursuant to the requests of the Operator for supply of a Roaming Connection, PTCL shall be obliged only to provide such Signalling Link via the C7 signalling network wholly within the control of PTCL at the time of request of the Operator. PTCL shall not be obliged to provide a dedicated international private circuit or C-7 link for international roaming.

- 3.3 PTCL shall be obliged to provide and maintain a PTCL Roaming Connection through dedicated reimbursement connections via DTEs (as per the terms of Annex-F) if required.
- 3.4 PTCL shall not be obliged to provide or maintain a PTCL Roaming Connection to an overseas administration with which PTCL does not have a correspondent relationship for the support of Roaming Connections.
- 3.5 Operator shall ensure that the number of Signalling Messages (where each Signalling Message shall not exceed 272 octets in length) handled by PTCL on behalf of Operator shall not exceed the limit that PTCL may reasonably specify from time to time.
- 3.6 Ordering Procedures and lead times for delivery of the services described herein shall be mutually agreed by the parties hereto as per the procedures set forth in Annex-B.

4. PTCL's Obligations

- 4.1 Any PTCL Roaming Connections provided by PTCL pursuant to the terms of this Agreement shall be such that Operator shall route, received Mobile Station Roaming Number (MSRN) through IGEs Karachi and Islamabad for call completion as described in Annex-E. SCCP functionality, recording of MSUs and international roaming call completion, international roaming connection shall be made through IGEs as PTCL routing zones, in accordance with the provisions of this schedule.
- 4.2 MSU data shall be collected from traffic data output and the charging methodology of IGEs.
- 4.3 International roaming shall be provided as per clause 4.1 through IGEs for perfect functioning of international roaming. The parties hereto shall make joint efforts to improve the services.
- 4.4 PTCL shall be responsible for the conveyance of Signalling Messages within the PTCL System. However, PTCL shall bear no responsibility or liability with respect to any acts or omissions of any third party telecommunications and/or any acts or omissions of Operator or overseas administration in respect of any Signalling Message handed over to or received from such third party.
- 4.5 PTCL reserve the right to terminate partially or wholly International Roaming Services (IRS) due to security reason under the instruction of PTA or any Govt. security agency.

5. Operator's Obligations

- 5.1 The Operator shall execute an arrangement with the GSM Operator overseas for exchange of Signalling Messages, prior to requesting Roaming Connection to such GSM Operator from PTCL.
- 5.2 Operator shall nominate the overseas administration in respect of the GSM Operator, at the time of requesting Roaming Connection to such GSM Operator overseas from PTCL.
- 5.3 Every six months, Operator shall provide to PTCL a rolling two-year forecast of the total number of Signalling Messages (where each Signalling Message shall not exceed 272 octets in length) to be handled by PTCL on behalf of Operator.

- 5.4 Operator shall fully cooperate with PTCL in testing and launching the roaming service through IGEs to ensure for perfect functioning of international roaming.

6. Charges

- 6.1 The Operator shall pay PTCL Roaming Connection Charges in accordance with clause 9 of the **Schedule 11** for each PTCL Roaming Connection.
- 6.2 In addition to the charges payable under clause 6.1 above, the Operator shall pay PTCL the per Signalling Message based usage charges at the rate specified in clause 9 of the **Schedule 11** for each Signalling Message sent and received. Such Signalling Message based usage charges shall be payable monthly in arrears. However, such charge shall not be payable if the Operator has leased IPLC from PTCL for roaming purposes.
- 6.3 In case, the Operator fails to make timely payment to PTCL of any charges/amounts due under this schedule within the time periods set forth in clause 7 hereinafter, the Operator shall pay PTCL the Default Interest Rate calculated from the due date for payment to the date of payment.
- 6.4 Any change (s) requested by Operator in the services set forth in this schedule which require Data Management Amendments, if so agreed to by PTCL, shall be subject to additional charges determined in accordance with the following procedure:
- (a) Operator shall submit a written request for the required changes together with any other information reasonably required by PTCL.
 - (b) PTCL shall, if it agrees to carry out the requested change (s), send a written invoice to Operator for payable charges prior to carrying out such agreed change (s).
 - (c) PTCL shall carry out the agreed change (s) within reasonable time after the payments of above-mentioned written invoice by Operator.
- 6.5 Charges will be billed/recovered at the time of changes in Signalling connection Control part and change in Global title operator and this connection will be treated as connection after closure.
- 6.6 Quarterly reconciliation between PTCL and Operator will be incorporated.
- 6.7 Surcharge 10% p.a. of the non-paid amount will be recovered from Operator in case of failure in making payment within due date.

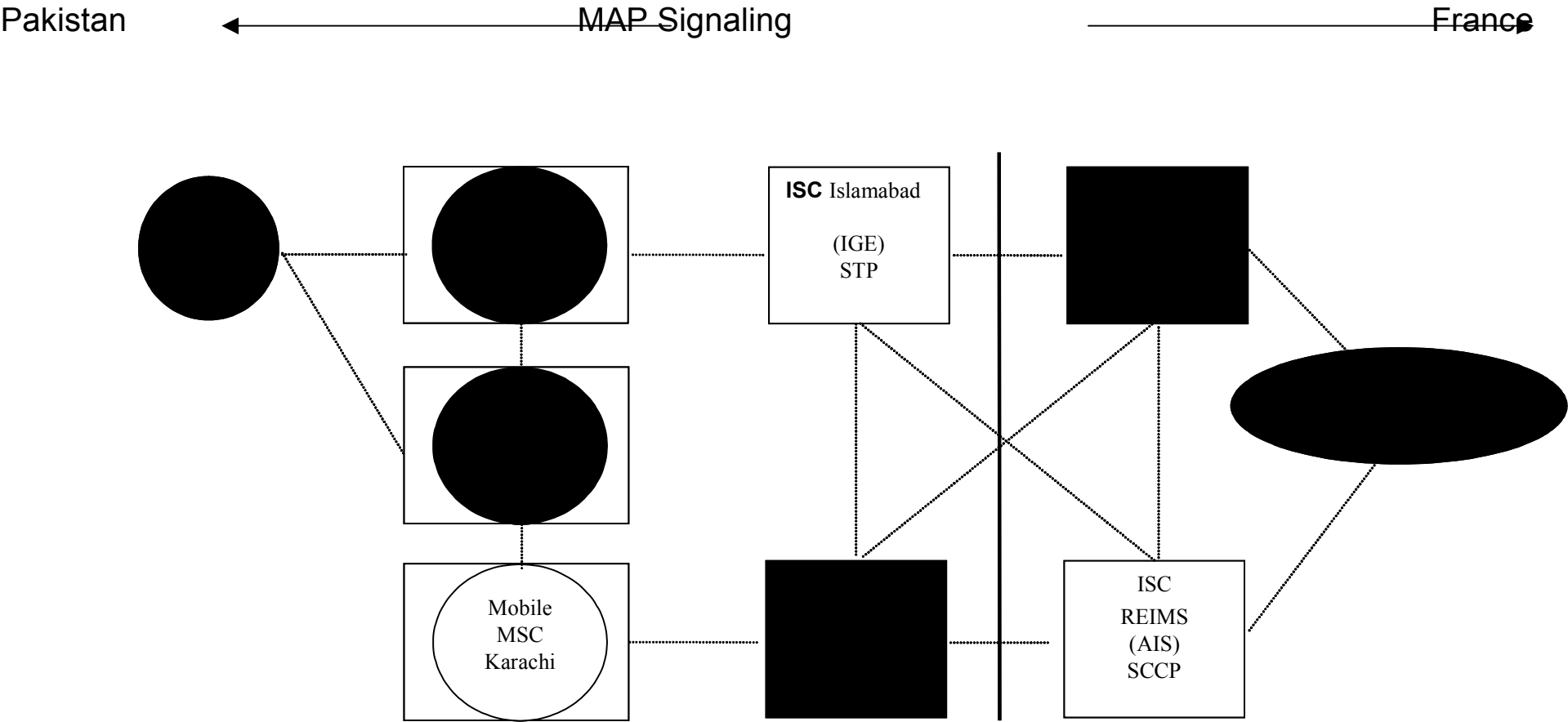
7. Payment

- 7.1 Notwithstanding any dispute on the accuracy an invoice, Operator shall unconditionally pay all invoices within 30 calendar days from the date of receipt of such invoices.
- 7.2 If Operator disputes the accuracy of an invoice, it shall notify in writing PTCL billing liaison contact as given in **Schedule 12** of the nature and extent of the dispute within 30 days of the receipt of the disputed invoice. If the notified dispute is not amicably resolved within 7 days from the date of notification, the dispute will be resolved in accordance with clause 27 of the main body of this Interconnection Agreement.

8. GSM International Roaming Activities

- 8.1 The Parties understand in good faith that anything contained in this Agreement is in accordance with the Pakistan Telecommunication (Re-Organization) Act of 1996, the Rules and all relevant Regulations and Determinations issued from time to time.
- 8.2 The Operator shall inform the Authority prior to the commencement of its International Roaming activities with another cellular operator of a neighbouring country or a country not recognized by the Government of Pakistan.
- 8.3 International Cellular Roamers are allowed to use their signal IMSI/Single MSISDN SIM in Pakistan, issued in their home country.
- 8.4 It will be mandatory for the Operator to provide roamers' details to the authorized departments of the GoP, for specific countries or specific subscribers, as notified to them from time to time, within twenty four (24) hours of their detection by the Operators' Network or earlier if technically feasible.
- 8.5 Information provided should be enough to identify the subscriber, his number or unique code through which, more details of the subscriber become available. For a GSM network such information could be IMSI, MSISDN etc. Details like "called party ID", time and duration of call should be identifiable. Other information available on the system should also be provided. Such records should be kept at least for a period of one year from the time of the call and available on request.
- 8.6 Within Pakistan, such communication shall only take place through licensed Cellular and LDI operators.

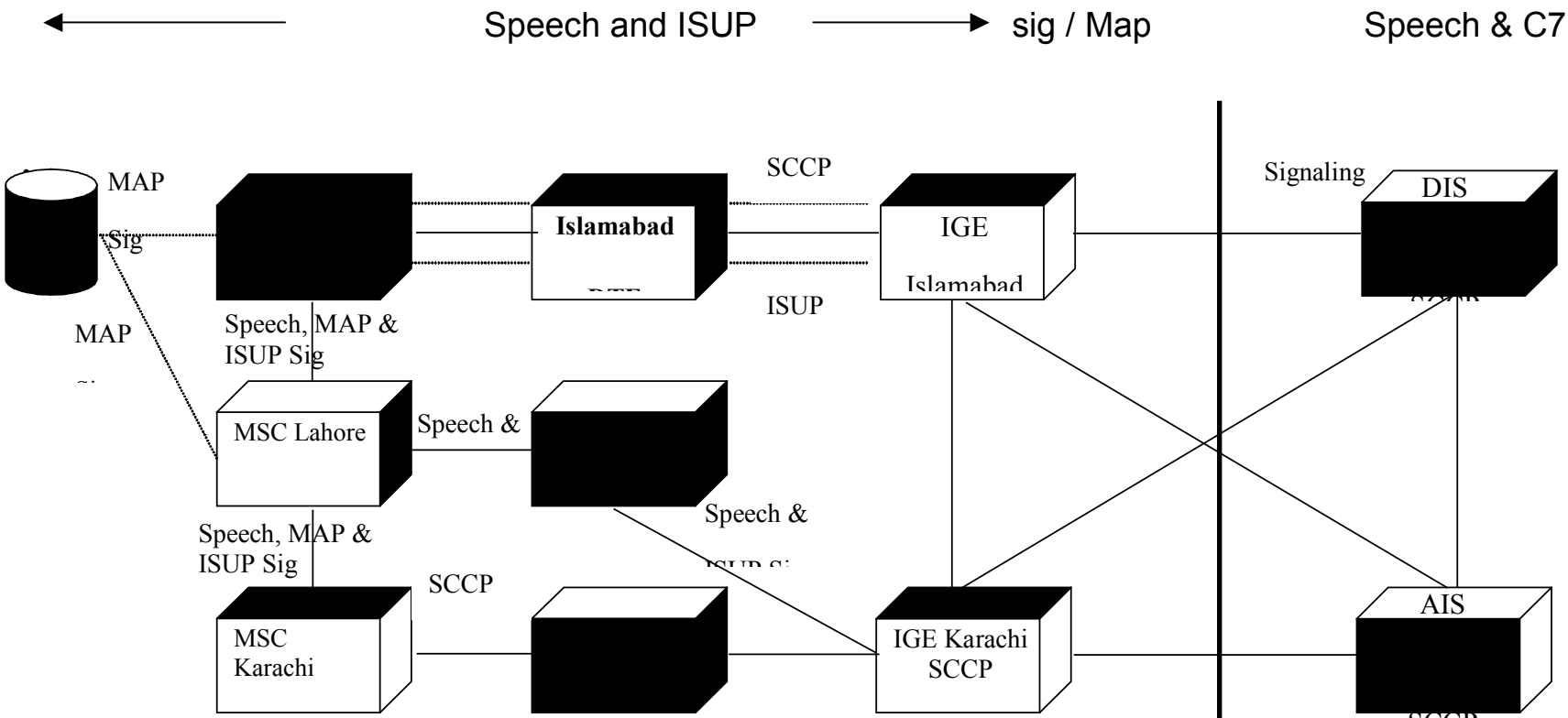
Signaling Connection Between Mobile, PTCL & France Telecom



Signaling & Speech Connection Between Mobile, PTCL & France Telecom

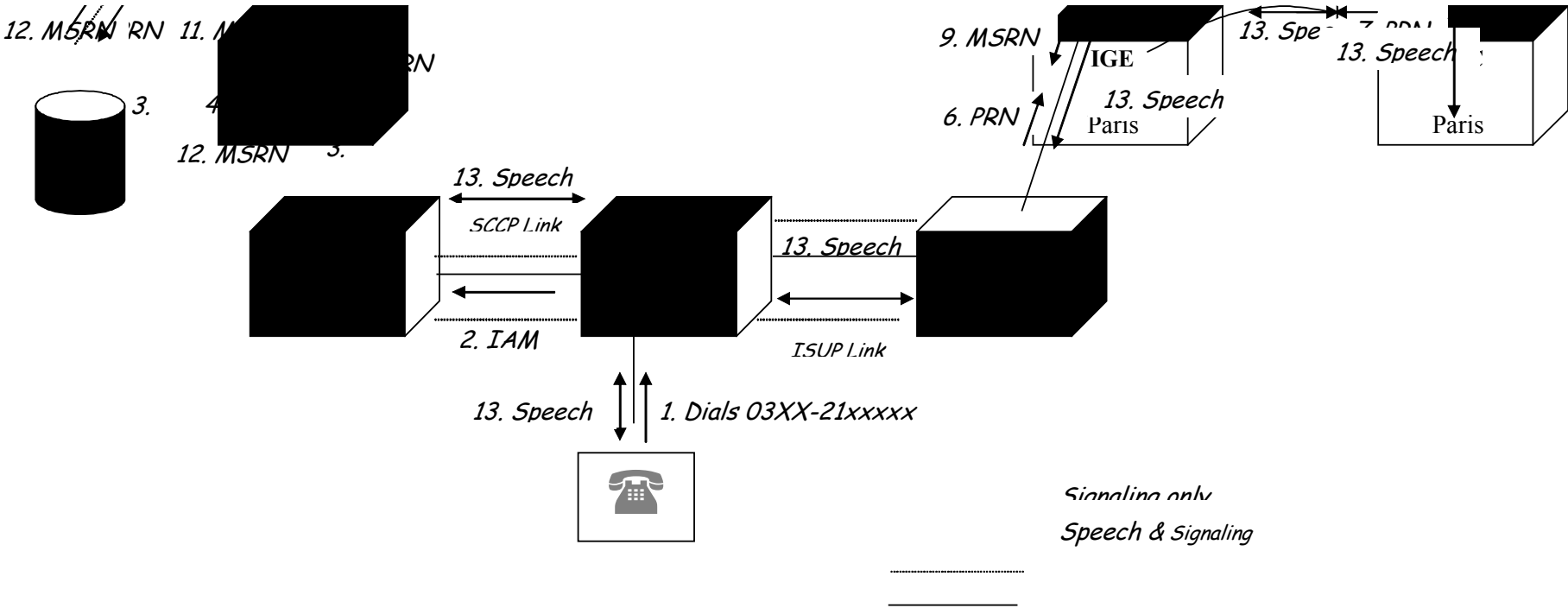
Mobile

France



Speech & C7

Call to a Karachi Mobile Number Roaming in France



Call to an France Telecom Number Roaming in Mobile Network (Karachi)

