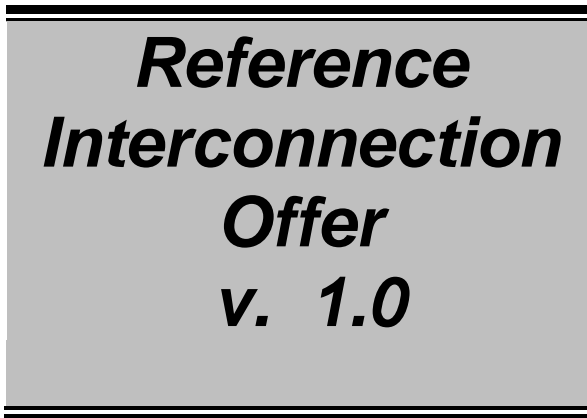


Service Descriptions



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PART 1. JOINING SERVICES

1 Optical In-Span Joining Service

1.1 Description

- 1.1.1 The Optical In-Span Joining Service will be provided by the Service Supplier and the Service Taker in accordance with the terms and conditions of this Agreement.
- 1.1.2 The Service will comprise a single Optical Fibre cable run from a Telco IPOP to the LIME ISL within the same Interconnect Access Area.
- 1.1.3 A Carrier System comprises a Service Taker CTU, the matching Service Supplier CTU for the relevant route, and the point to point Optical Fibre.
- 1.1.4 The Service Supplier of the Optical In-Span Joining Service can be either LIME or the Telco. The Service Taker will be responsible for providing a Joint Box. The Joint Box will comply with the specification referred to in the technical specifications of the Joint Working Manual.
- 1.1.5 The Carrier System more particularly described in the Joint Working Manual will provide E1, 2.048 Mbit/s [IN GRENADA INSERT "T1, 1.544 Mbit/s"], Network Links for Services contained within the Service Schedule in accordance with the configuration described in Paragraph 1.4 of this Service Description.

1.2 Responsibilities

- 1.2.1 Without prejudice to the rights and obligations described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 1.2.2 In accordance with Clause 6.1, the Service Supplier will be responsible for planning, providing, operating and maintaining the Optical In-Span Joining Service up to the Joint Box and the Joint Box shall be the Point of Connection for the purposes of this Agreement. The Service Taker will be responsible for pulling the Optical Fibres from the Joint Box to the Service Taker CTU in the Service Taker ISL / IPOP. Service Taker is responsible for connecting the Optical Fibres to the Service Taker CTUs and connecting the latter to the Service Taker System.
- 1.2.3 In accordance with Clause 16, Service Taker will ensure that all equipment connected to the Service Taker CTU meets the safety standards and other equipment approval requirements set out in the Joint Working Manual.
- 1.2.4 The CTUs shall conform to the standards set out in and other applicable provisions of the Joint Working Manual.
- 1.2.5 Notwithstanding Paragraph 1.2.2 of this Service Description, the Service Supplier will be responsible for monitoring the quality of service, managing and providing management information about the Optical In-Span Joining Service from the Service Supplier CTU up to but excluding the corresponding Service Taker CTU in accordance with the Joint Working Manual and Parameter Schedule. Service Taker will be responsible for monitoring the quality of service, managing and providing management information for the Service Taker CTU, in accordance with the Joint Working Manual and Parameter Schedule. For the avoidance of doubt, this does not

include the provision of access to the Service Supplier's or Service Taker's management systems and does not extend or limit the responsibility for planning, providing, operating and maintaining the service referred to in Paragraph 1.2.2 of this Service Description.

- 1.2.6 Each Party will be responsible for agreeing an Order Plan for the E1 (2.048 Mbit/s) [IN GRENADA INSERT "T1 (1.544Mbit/s)"] Network Links within the Optical In-Span Joining Service based on a Final Forecast and for provisioning and testing those Network Links in accordance with the Joint Working Manual both at the commencement of this Agreement and on an ongoing basis. For the avoidance of doubt, a new Joining Service will need to be added to the Service Schedule if an agreed Order Plan requires a new Carrier System or new Joining Service to be installed.

1.3 Quality of Service

- 1.3.1 In accordance with Clause 15, Service Supplier will provide the Optical In-Span Joining Service twenty four (24) hours per day, every day to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 1.3.2 Quality of Service levels and Fault Restoration Times for the Optical In-Span Joining Service will be measured and reported by Service Supplier in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved Quality of Service levels in accordance with the Joint Working Manual.

1.4 Configuration

- 1.4.1 The Optical In-Span Joining Service will be available at the LIME ISL and the Telco IPOP(s) specified in the Service Schedule.
- 1.4.2 The Optical In-Span Joining Service comprises:
- i) One Service Supplier CTU;
 - ii) One Optical Fibre cable in ducts;
 - iii) One Service Taker CTU; and
 - iv) Zero, one or more Service Supplier 64 Kbit/s Network Signalling Links subject to there being a minimum of two such links in total in place between the Service Supplier System and the Service Taker System.
- 1.4.3 A Carrier System is capable of supporting 16 x E1 2.048 Mbit/s Network Links. [IN GRENADA, INSERT THE FOLLOWING LANGUAGE – "A Carrier System is capable of supporting 84 x T1 1.544 Mbit/s Network Links."]
- 1.4.4 For the avoidance of doubt, not all of the E1[INSERT "T1" IN GRENADA] Network Links in the Carrier System need to be commissioned initially and it will not be necessary to order the full capacity. The number of E1 [INSERT "T1" IN GRENADA] Network Links that are required from time to time will be dependent on the Final Forecast and resulting Order Plan for the relevant Quarter. Any minimum number of Network Links that need to be commissioned in a relevant Carrier System is specified in the Service Schedule. Where this figure is absent, the default minimum number of Network Links per Carrier System equals the Carrier System capacity.

1.5 Charges

- 1.5.1 The tariffs for the aggregate Charges for the initial implementation of the Optical In-Span Joining Service, together with amendments to it from time to time, are specified in the Tariff Schedule.
- 1.5.2 The Charges for the Optical In-Span Joining Service are payable pursuant to Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable One-off and Monthly Recurring Charges.
- 1.5.3 One-off Charges may include applicable installation and testing charges for Services in connection with the implementation of an Order Plan from time to time.
- 1.5.4 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual, the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.
- 1.5.5 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by either Party as a result of inaccurate forecasts and delays to provisioning and testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

1.6 Billing

- 1.6.1 In accordance with Clause 11.4, the billing arrangements set out below will apply to the Optical In-Span Joining Service.
- 1.6.2 LIME shall be entitled to invoice the Telco for the Charges specified in the Tariff Schedule for the Optical In-Span Joining Service. LIME shall be entitled to invoice the Telco for monthly recurring charges following the expiration of each Billing Period.
- 1.6.3 LIME shall be entitled to invoice the Telco for One-off Charges for installation and testing of any Termination Service, Special Access Services, Transit Service or Wholesale Service.

– **End of Service Description** –

PART 2. TERMINATION SERVICES

1 PSTN Terminating Access Service

1.1 Description

- 1.1.1 The PSTN Terminating Access Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 1.1.2 The PSTN Terminating Access Service will provide conveyance of Calls originating on Service Taker Subscriber Connections via the Service Supplier PSTN from the Point Of Connection defined by the Joining Service to the applicable Service Supplier PSTN Subscriber Connections in [INSERT ECTEL MEMBER STATE]. Such Calls must be addressed to valid number ranges associated with the Service Supplier PSTN Subscriber Connections.
- 1.1.3 The valid number ranges associated with the Service Supplier PSTN Subscriber Connections and associated ISL / IPOPs are listed in the Service Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 1.1.4 For the avoidance of doubt, Calls to numbers associated with Special Access Services are not conveyed pursuant to this Service Description. Calls originating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description. Calls ultimately terminating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description unless the domestic Subscriber to whom the Call is directed has forwarded its number. Calls intended for international termination on a number other than the Subscriber Connection to which the Call was originally directed are not conveyed pursuant to this Service Description.
- 1.1.5 The PSTN Terminating Access Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 1.1.6 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.

1.2 Service Specific Responsibilities

- 1.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 1.2.2 Service Supplier will be responsible for the metering and billing necessary to charge Service Taker for all Calls passed by Service Taker to the Service Supplier PSTN using the PSTN Terminating Access Service in accordance with the Joint Working Manual.
- 1.2.3 Service Supplier will be responsible for monitoring the service quality, managing and providing management information about the PSTN Terminating Access Service from the Point of Connection to the Service Supplier PSTN Subscriber Connection, in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the service quality, managing and providing management information

about the PSTN Terminating Access Service from the Service Taker Subscriber Connection to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's or Service Taker's management systems will not be provided.

- 1.2.4 Service Taker will be responsible for forecasting usage of the PSTN Terminating Access Service in accordance with the Joint Working Manual.
- 1.2.5 Service Taker will be responsible for validating the called number according to the National Numbering Scheme and the valid number ranges associated with the PSTN Subscriber Connections in the Service Schedule. In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not part of the applicable Service Supplier Numbering Ranges.
- 1.2.6 Service Taker will be responsible for managing any end-to-end services provided by Service Taker to Service Taker Subscriber Connections that use the PSTN Terminating Access Service.

1.3 Quality of service

- 1.3.1 In accordance with Clause 15, Service Supplier will provide the PSTN Terminating Access Service twenty four (24) hours per day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 1.3.2 Quality of Service levels and Fault Restoration Times for the PSTN Terminating Access Service will be measured and reported in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.

1.4 Configuration

- 1.4.1 The PSTN Terminating Access Service will be available at the LIME ISL and Telco IPOPs specified in the Service Schedule.
- 1.4.2 Service Taker will deliver traffic in Trunk Groups at each Point of Connection where the PSTN Terminating Access Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.

1.5 Charges

- 1.5.1 The tariffs for Charges for the PSTN Terminating Access Service are specified in the Tariff Schedule.
- 1.5.2 The charges for the PSTN Terminating Access Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.
- 1.5.3 Usage Charges include:
 - Call Duration Charges depending on duration.
- 1.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier. The number of

Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.

- 1.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual, the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service.
- 1.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasts of the PSTN Terminating Access Service and for delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

- **End of Service Description** –

2 **PLMN Terminating Access Service**

2.1 **Description**

- 2.1.1 The PLMN Terminating Access Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 2.1.2 The PLMN Terminating Access Service provides conveyance of Calls from the Point of Connection defined by the Joining Service to Service Supplier PLMN Subscriber Connections in [INSERT ECTEL MEMBER STATE] via the Service Supplier PLMN. Calls conveyed pursuant to this Service originate on a Service Taker PLMN or PSTN Subscriber Connection or from Subscriber Connections of a Third Party Telecoms Providers conveyed pursuant to the PSTN Transit Service. Calls must be addressed to valid number ranges associated with the Service Supplier PLMN Subscriber Connections in [INSERT ECTEL MEMBER STATE]. Calls originating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description. Calls ultimately terminating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description unless the domestic Subscriber to whom the Call is directed is roaming or has forwarded its number. Calls intended for international termination on a number other than the Subscriber Connection to which the Call was originally directed are not conveyed pursuant to this Service Description.¹
- 2.1.3 The valid number ranges associated with the Service Supplier PLMN Subscriber Connections are listed in the Service Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 2.1.4 The PLMN Terminating Access Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the relevant Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 2.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual

2.2 **Service Specific Responsibilities**

- 2.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 2.2.2 Service Supplier will be responsible for the metering and billing necessary to charge Service Taker for all Calls passed by Service Taker to the Service Supplier PLMN using the PLMN Terminating Access Service in accordance with the Joint Working Manual.
- 2.2.3 Service Supplier will be responsible for monitoring service quality, managing and providing management information about the PLMN Terminating Access Service

¹ The Telco may choose to interconnect directly with LIME's mobile network instead of LIME's fixed network. However, additional services may have to be specified to accommodate this arrangement, and in particular any transit across LIME's mobile network. Telco may also choose to have direct interconnection with both LIME's fixed network and LIME's mobile network.

from the Point of Connection to the Service Supplier PLMN Subscriber Connection and Service Taker will be responsible for monitoring the service quality, managing and providing management information about the PLMN Terminating Access Service from the Service Taker Subscriber Connection or Point of Handover (as the case may be) to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's or Service Taker's management systems will not be provided.

- 2.2.4 Service Taker will be responsible for forecasting usage of the PLMN Terminating Access Service in accordance with the Joint Working Manual.
- 2.2.5 Service Taker will be responsible for validating the called number according to the National Numbering Scheme and the valid number ranges associated with the PLMN Subscriber Connections in the Service Schedule. In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not part of the applicable Service Supplier Numbering Ranges.
- 2.2.6 Service Taker will be responsible for managing any end-to-end Services provided by Service Taker to Service Taker Subscriber Connections that use the PLMN Terminating Access Service.

2.3 Quality of service

- 2.3.1 In accordance with Clause 15, Service Supplier will provide the PLMN Terminating Access Service 24 hours/day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 2.3.2 Quality of Service levels and Fault Restoration Times for the PLMN Terminating Access Service will be measured and reported in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.
- 2.3.3 For Calls that have been transited through the Service Taker network, Service Taker is not responsible for the quality of the Third Party Fixed Telecoms Provider or the Third Party Mobile Telecom Provider involved in conveyance of the Call prior to the Point of Handover.

2.4 Configuration

- 2.4.1 The PLMN Terminating Access Service will be available at the Service Supplier ISL/IPOP(s) specified in the Service Schedule.
- 2.4.2 Service Taker will deliver traffic in Trunk Groups at each Point of Connection where the PLMN Terminating Access Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.

2.5 Charges

- 2.5.1 The tariffs for the charges for the PLMN Terminating Access Service are specified in the Tariffs Schedule.
- 2.5.2 The Charges for the PLMN Terminating Access Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any

other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.

2.5.3 Usage Charges include:

- Call Duration Charges depending on duration;²

2.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by Service Supplier and the number of Time Units that shall apply will be calculated by Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.

2.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in Joint Working Manual, the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.

2.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by the Service Taker as a result of inaccurate forecasts of the PLMN Terminating Access Service and for delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

- End of Service Description -

² A transit charge will also be assessed pursuant to the PSTN Transit Service where the call transits the PSTN in order to be terminated on the Service Supplier's PLMN Subscriber Connections.

3 Incoming International Call Termination to PLMN Service

3.1 Description

- 3.1.1 Incoming International Call Termination to PLMN Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement
- 3.1.2 The Incoming International Call Termination to PLMN Service will provide conveyance of Calls which originate on the System of a Third Party International Telecom Provider and conveyed via the Service Taker's System or pursuant to the PSTN transit service, from the Point of Connection defined by the Joining Service to the applicable Service Supplier PLMN Subscriber Connections. Calls must be addressed to valid number ranges associated with the Service Supplier PLMN Subscriber Connections. The Calls will originate from Third Party International Telecom Providers in countries outside of [INSERT ECTEL MEMBER STATE] selected by the Service Taker.
- 3.1.3 The valid number ranges associated with the Service Supplier PLMN Subscriber Connections are listed in the Service Schedule. The list may be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual. For the avoidance of doubt, Calls to numbers associated with Special Access Services, including Audiotext Services, are not conveyed pursuant to this Service Description.
- 3.1.4 The Incoming International Call Termination to PLMN Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the relevant Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 3.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.
- 3.1.6 All Calls pursuant to this Service Description must be presented by the Service Taker to the Point of Connection as conventional circuit switched voice traffic. Calls ultimately terminating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description unless the domestic Subscriber to whom the Call is directed is roaming or has forwarded its number. Calls intended for international termination on a number other than the Subscriber Connection to which the Call was originally directed are not conveyed pursuant to this Service Description

3.2 Service Specific Responsibilities

- 3.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 3.2.2 Service Supplier will be responsible for the metering and billing necessary to charge Service Taker for all Calls passed by the Service Taker to the Service Supplier using the Incoming International Call Termination to PLMN Service in accordance with the

Joint Working Manual. The Service Supplier shall be responsible for conveying Calls from the Point of Connection defined by the Joining Service to the applicable Service Supplier PLMN Subscriber Connections.

- 3.2.3 Service Supplier will be responsible for monitoring the service quality, managing and providing management information about the Incoming International Call Termination to PLMN Service, from the Point of Connection to the Service Supplier's PLMN Subscriber Connections. The Service Taker will be responsible for monitoring the service quality, managing and providing management information about the Incoming International Call Termination to PLMN Service from the Point of Handover to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's and Service Taker's management systems will not be provided.
- 3.2.4 Service Taker will be responsible for forecasting usage of the Incoming International Call Termination to PLMN Service in accordance with the Joint Working Manual.
- 3.2.5 Service Taker will be responsible for validating the called number in accordance with the national Numbering Scheme and the valid number ranges associated with Service Supplier's PLMN Subscriber Connections in the Service Schedules. In accordance with Clause 8.2, Service Taker will be under no obligation to convey, and Service Supplier will be under no obligation to Terminate, Calls pursuant to this Service Description: (a) that are not part of the applicable Service Supplier numbering ranges associated with the Service Supplier's PLMN Subscriber Connections; (b) that do not originate on the System of a Third Party International Telecom Provider; and (c) that do not meet the technical requirements set out in the Joint Working Manual.
- 3.2.6 The Service Taker shall have no obligation to convey Calls pursuant to this Service Description where it chooses not to do so. Where the Service Taker chooses to convey Calls in accordance with this Service Description, the Service Supplier shall be obliged to terminate those Calls.
- 3.2.7 Nothing in this Agreement shall be interpreted as requiring the Service Taker to enter into, or continue any correspondent relationship with a Third Party International Telecom Provider for termination to PLMN Subscribers.
- 3.2.8 Nothing in this Agreement shall prohibit the Service Supplier from making its own arrangements to receive Calls from Third Party International Telecom Providers.

3.3 Quality of service

- 3.3.1 In accordance with Clause 15 of the Legal Framework, Service Supplier will provide the Incoming International Call Termination to PLMN Service 24 hours/day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule. Service Taker is responsible for Quality of Service on its System.
- 3.3.2 Quality of Service levels and Fault Restoration Times for the Incoming International Call Termination to PLMN Service will be measured and reported in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual. The Service Taker is not responsible for the service quality of Third Party International Telecom Providers, in relation to the relevant Calls conveyed pursuant to this Service Description prior to the Point of Handover.

3.4 Configuration

- 3.4.1 The Incoming International Call Termination to PLMN Service will be available at the Service Supplier ISL(s)/IPOP(s) specified in the Service Schedule.
- 3.4.2 Service Taker will deliver traffic in a dedicated Trunk Group at each Point of Connection where the Incoming International Call Termination to PLMN Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.

3.5 Charges

- 3.5.1 The tariffs for the charges for Incoming International Call Termination to PLMN Service are specified in the Tariff Schedule.
- 3.5.2 The Charges for the Incoming International Call Termination to PLMN Service are payable in accordance with Clause 9 of the Legal Framework, can be varied in accordance with Clause 10 of the Legal Framework and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.
- 3.5.3 Usage charges include:
- Call Duration Charges depending on duration.³
- 3.5.4 For each Answered Call, the Incoming International to Mobile Termination Charge will be applicable when Call Start occurs.
- 3.5.5 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by Service Supplier, and the number of Time Units that shall apply will be calculated by Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.
- 3.5.6 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual the tariffs will include all charges for the handling of signalling messages required based on the specifications of this Service.
- 3.5.7 For the avoidance of doubt, the Tariffs Schedule does not include any sums that may be payable by Service Supplier as a result of inaccurate forecasting of the International Incoming PLMN Terminating Access Service and for delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

- End of Service Description -

³ A transit charge will also be assessed pursuant to the PSTN Transit Service where the call transits the PSTN in order to be terminated on the Service Supplier's PLMN Subscriber Connections.

4 Incoming International Call Termination to PSTN Service

4.1 Description

- 4.1.1 The Incoming International Call Termination to PSTN Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 4.1.2 The Incoming International Call Termination to PSTN Service provides conveyance of Calls which originate on the System of a Third Party International Telecom Provider and conveyed via the Service Taker's System, from the Point of Connection defined by the Joining Service to the applicable Service Supplier PSTN Subscriber Connections. Calls must be addressed to valid number ranges associated with the Service Supplier PSTN Subscriber Connections.
- 4.1.3 The calls will originate from Third Party International Telecom Providers in countries outside of [INSERT ECTEL MEMBER STATE] selected by the Service Taker.
- 4.1.4 The Service Supplier shall be responsible for conveying Incoming International PSTN Termination Calls from the Point of Connection defined by the Joining Service to the applicable Service Supplier PSTN Subscriber Connections.
- 4.1.5 The valid number ranges associated with the Service Supplier PSTN Subscriber Connections are listed in the Service Schedule. The list may be amended from time to time to include any additional numbers to which Incoming International PSTN Termination Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual. For the avoidance of doubt, Calls to numbers associated with Special Access Services are not conveyed pursuant to this service description.
- 4.1.6 The Incoming International Call Termination to PSTN Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the relevant Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 4.1.7 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.
- 4.1.8 All Incoming International PSTN Termination Calls must be presented by the Service Taker to the Point of Connection as conventional circuit switched voice traffic. Calls ultimately terminating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description unless the domestic Subscriber to whom the Call is directed has forwarded its number. Calls intended for international termination on a number other than the Subscriber Connection to which the Call was originally directed are not conveyed pursuant to this Service Description.

4.2 Service Specific Responsibilities

- 4.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 4.2.2 Nothing in this arrangement shall be interpreted as requiring the Service Taker to enter into, or continue any relationship with an international carrier in relation to the

delivery of Incoming International PSTN Termination Calls.

- 4.2.3 Service Supplier will be responsible for the metering and billing necessary to charge Service Taker for all Calls passed by Service Taker to the Service Supplier using the Incoming International Call Termination to PSTN Service in accordance with the Joint Working Manual.
- 4.2.4 The Service Taker shall have no obligation to convey Calls pursuant to this Service Description where it chooses not to do so. Where the Service Taker chooses to convey Calls in accordance with this Service Description, the Service Supplier shall be obliged to terminate those Calls.
- 4.2.5 Service Supplier will be responsible for monitoring the service quality, managing and providing management information about the Incoming International Call Termination to PSTN Service, from the Point of Connection to the Service Supplier PSTN Subscriber Connections. The Service Taker will be responsible for monitoring the service quality, managing and providing management information about the Incoming International Call Termination to PSTN Service from the Point of Handover to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's and Service Taker's management systems will not be provided.
- 4.2.6 Service Taker will be responsible for forecasting usage of the Incoming International Call Termination to PSTN Service in accordance with the Joint Working Manual.
- 4.2.7 Service Taker will be responsible for validating the called number in accordance with the national Numbering Scheme and the valid number ranges associated with Service Supplier PSTN Subscriber Connections in the Service Schedules.
- 4.2.8 In addition to the terms of this Service Description, Service Taker will be under no obligation to convey, and Service Supplier will be under no obligation to terminate, Calls pursuant to this Service Description (a) that are not part of the applicable number ranges associated with Service Supplier PSTN Subscriber Connections (b) that are not Incoming International PSTN Termination Calls or (c) that do not meet with technical requirements set out in the Joint Working Manual.

4.3 Quality of service

- 4.3.1 In accordance with Clause 15 of the Legal Framework, Service Supplier will provide the Incoming International Call Termination to PSTN Service to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule. Service Taker is responsible for QOS on the part of its own network that is utilised for the call.
- 4.3.2 Quality of Service levels and Fault Restoration Times for the Incoming International Call Termination to PSTN Service will be measured and reported in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual. The Service Supplier is not responsible for the quality of service of services (including the origination of the Call) which are provided by a Third Party International Telecom Provider, in relation to the relevant Call conveyed pursuant to this Service Description.

4.4 Configuration

4.4.1 The Incoming International Call Termination to PSTN Service will be available at the Service Supplier ISL(s)/IPOP(s) specified in the Service Schedule.

4.4.2 Service Taker will deliver traffic in a dedicated Trunk Group at each Point of Connection where the Incoming International Call Termination to PSTN Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.

4.5 Charges

4.5.1 The Charges set out in the Tariff Schedule for the Incoming International Call Termination to PSTN Service are payable in accordance with Clause 9 of the Legal Framework, can be varied in accordance with Clause 10 of the Legal Framework and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.

4.5.2 Usage Charges include:

- Call Duration Charges depending on duration.

4.5.3 For each Answered Call, the Call Set-up Charge will be applicable when Call Start occurs.

4.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier. The number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.

4.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual the tariffs will include all charges for the handling of signalling messages required based on the specifications of this Service.

4.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the Incoming International Call Termination to PSTN Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual. Neither does it include any sums payable pursuant to Clause 8.2.

- End of Service Description -

PART 3. SPECIAL ACCESS SERVICES

1 Emergency Services Access Service

1.1 Service Description

- 1.1.1 The Emergency Services Access Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 1.1.2 The Emergency Services Access Service will provide conveyance of Calls addressed to the valid emergency services access number from Service Taker Subscriber Connections from the Point of Connection through the Service Supplier PSTN to the specific Emergency Centre indicated by the called number.
- 1.1.3 The valid numbers for the Emergency Services Access Service are stated in the Service Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 1.1.4 The Emergency Services Access Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 1.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.

1.2 Specific Responsibilities

- 1.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 1.2.2 Service Supplier will be responsible, in accordance with the Joint Working Manual, for the metering and billing necessary to charge Service Taker for all Calls passed by Service Taker to the Emergency Centre via the Service Supplier PSTN using the Emergency Services Access Service.
- 1.2.3 Service Supplier will be responsible for monitoring the service quality, managing and providing management information about the Emergency Services Access Service from the Point of Connection to the Emergency Centre, in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the service quality, managing and providing management information about the Emergency Services Access Service from the Subscriber Connection to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's and Service Taker's management systems will not be provided.
- 1.2.4 Service Taker will be responsible for forecasting usage of the Emergency Services Access Service in accordance with the Joint Working Manual.
- 1.2.5 Service Taker will be responsible for validating the called number against the valid emergency service numbers. In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not addressed to numbers listed in the Service Schedule as valid numbers for the

Emergency Services Access Service.

- 1.2.6 Service Taker will be responsible for communicating the valid numbers for access to the emergency services to their Subscribers and for keeping their Subscribers informed of any changes.
- 1.2.7 Service Taker will be responsible for handling all enquiries and complaints from an Emergency Centre about Calls conveyed via the Emergency Services Access Service.
- 1.2.8 Each Emergency Centre shall take responsibility for the management of and action taken as a consequence of a Call when the Call has been handed over by Service Supplier. The Service Supplier is not responsible under this Agreement for any acts or omissions of the Emergency Centre in dealing with the Call.
- 1.2.9 The Parties will co-operate to comply with any directions from appropriate Ministerial departments that may affect this service.

1.3 Quality of service

- 1.3.1 In accordance with Clause 15, Service Supplier will provide the Emergency Services Access Service twenty four (24) hours per day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 1.3.2 Quality of Service levels and Fault Restoration Times for the Emergency Services Access Service will be measured and reported in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.

1.4 Configuration

- 1.4.1 The Emergency Services Access Service will be available at the LIME ISL and Telco IPOP(s) specified in the Service Schedule.
- 1.4.2 Service Taker will deliver traffic in Trunk Groups at each Point of Connection where the Emergency Services Access Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.
- 1.4.3 Service Supplier will undertake the necessary routing and translation for all codes that require routing or translation across its System.

1.5 Charges

- 1.5.1 The tariffs for Charges for the Emergency Services Access Service are specified in the Tariff Schedule.
- 1.5.2 The Charges for the Emergency Services Access Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.
- 1.5.3 Usage charges include:
 - Call Duration Charges depending on duration.

- 1.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier. The number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.
- 1.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.
- 1.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the Emergency Services Access Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual. Neither does it include any sums that may be payable pursuant to Clause 8.2.

- End of Service Description -

2 LIME National DQ Service

2.1 Service Description

- 2.1.1 The LIME National DQ Service will be provided by Service Supplier to Service Taker, in accordance with the terms and conditions of this Agreement.
- 2.1.2 The LIME National DQ Service will provide conveyance of Calls originating from Service Taker Subscriber Connections addressed to the valid Service Supplier national DQ numbers from the Point of Connection to a Service Supplier National DQ Call Centre via the Service Supplier PSTN. The Service includes the provision of number information by Service Supplier DQ Call Centre from the Service Supplier National Directory Database.
- 2.1.3 The valid LIME national DQ number is listed in the Service Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 2.1.4 The LIME National DQ Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 2.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual
- 2.1.6 The call greeting will be specified in the Parameter Schedule.
- 2.1.7 Calls may be handled by an ACD system located at a Service Supplier DQ Call Centre and Calls may be queued. If a queue place is not available, the Service Taker Subscriber Connection will receive busy tone.
- 2.1.8 One telephone number per Call may be requested. The minimum information needed from the Service Taker Subscriber is name and (partial) address.
- 2.1.9 If a listing is found, the applicable telephone number will be read back through an Interactive Voice Response (IVR) system or by the agent. Where more than one listing is found, telephone numbers relating to the primary two listings only will be given out. If the listing that is found is ex-directory, the IVR or agent will state that the requested number is unlisted, or that the requested telephone numbers cannot be disclosed. Where no listings are found, the IVR or agent dialogue will state that the requested number is unlisted or cannot be found.
- 2.1.10 The information available in the Service Supplier National Directory Database will depend on agreements with the Third Party Telecom Providers (and the Service Taker) for inclusion of applicable Subscriber information and Service Supplier is not responsible for any omissions or inaccuracies. Such information is not provided or included pursuant to this Service Schedule.

2.2 Specific Responsibilities

- 2.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service

Description.

- 2.2.2 Service Supplier will be responsible, in accordance with the Joint Working Manual, for the metering and billing to charge Service Taker for all Calls using the LIME National DQ Service passed by Service Taker to the Service Supplier DQ call centre via the Service Supplier PSTN.
- 2.2.3 Service Supplier will be responsible for managing, operating and maintaining the Service Supplier Standard National Directory Database and associated computer systems and providing training for the DQ Operators and the necessary working environment.
- 2.2.4 Service Supplier will be responsible for monitoring the quality, managing and providing management information about the LIME National DQ Service from the Point of Connection to the Service Supplier DQ call centre in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the quality, managing and providing management information about the LIME National DQ Service in accordance with the Joint Working Manual. For the avoidance of doubt, no access to the Service Supplier's or Service Taker's management systems will be provided.
- 2.2.5 Service Taker will be responsible for forecasting usage of the LIME National DQ Service in accordance with the Joint Working Manual
- 2.2.6 Service Taker will be responsible for validating the called number against the valid Service Supplier national DQ number. In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not addressed to a number listed in the Service Schedule as a valid number for the LIME National DQ Service.
- 2.2.7 Service Taker will be responsible for managing any end-to-end Services provided by Service Taker to Service Taker Subscribers that use the LIME National DQ Service.

2.3 Quality of service

- 2.3.1 In accordance with Clause 15, Service Supplier will provide the LIME National DQ Service twenty four (24) hours per day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 2.3.2 Quality of Service levels and Fault Restoration Times for the LIME National DQ Service will be measured and reported by Service Supplier in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.

2.4 Configuration

- 2.4.1 The LIME National DQ Service will be available at the Service Supplier ISL / IPOP(s) specified in the Service Schedule.
- 2.4.2 Service Taker will deliver traffic in Trunk Groups at each Point of Connection where the LIME National DQ Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.
- 2.4.3 Service Supplier will undertake the necessary routing and translation for all codes that require routing or translation across its System.

2.5 Charges

- 2.5.1 The tariffs for Charges for the LIME National DQ Service are specified in the Tariff Schedule.
- 2.5.2 The Charges for the LIME National DQ Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.
- 2.5.3 Usage Charges will include:
- Call Duration Charges depending on duration.
- 2.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier. The number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.
- 2.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual, the tariffs will include all charges for the handling of signalling messages as required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.
- 2.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the LIME National DQ Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual. Neither does it include any sums payable pursuant to Clause 8.2.

- End of Service Description -

3 LIME International DQ Service

3.1 Service Description

- 3.1.1 The LIME International DQ Service will be provided by Service Supplier to Service Taker, in accordance with the terms and conditions of this Agreement.
- 3.1.2 The LIME International DQ Service will provide conveyance of Calls originating on Service Taker Subscriber Connections from the Point of Connection to a Service Supplier International DQ Call Centre via the Service Supplier PSTN. The Service includes the provision of number information by the Service Supplier International DQ Call Centre from the Service Supplier International Directory Databases.
- 3.1.3 The valid LIME international DQ numbers are stated in the Services Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 3.1.4 The LIME International DQ Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 3.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.
- 3.1.6 The call greeting will be specified in the Parameter Schedule.
- 3.1.7 Calls may be handled by an ACD system located at a Service Supplier International DQ Call Centre and Calls may be queued. If a queue place is not available, the Service Taker Subscriber will receive busy tone.
- 3.1.8 A search for one telephone number per Call may be requested. The minimum information needed from the Service Taker Subscriber is country, name and (partial) address.
- 3.1.9 If a listing is found, the applicable telephone number will be read back through an Interactive Voice Response (IVR) system or by the agent. Where more than one listing is found, telephone numbers relating to the primary two listings only will be read back through an IVR system or by the agent. If the listing that is found is ex-directory, the IVR or agent will state that the requested number is unlisted, or that the requested number cannot be disclosed. Where no listings are found, the IVR or agent will state that the number is unlisted or cannot be found.
- 3.1.10 The information available in the Service Supplier International DQ Database will depend on agreements with International DQ Database Providers outside of [INSERT ECTEL MEMBER STATE] and Service Supplier is not responsible for any omissions or inaccuracies.

3.2 Specific Responsibilities

- 3.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service

Description.

- 3.2.2 Service Supplier will be responsible, in accordance with the Joint Working Manual, for the metering and billing to charge Service Taker for all Calls using the LIME International DQ Service passed by Service Taker to the Service Supplier International DQ Call Centre via the Service Supplier PSTN.
- 3.2.3 Service Supplier will be responsible for managing, operating and maintaining the Service Supplier International DQ Database and associated computer systems and providing training for the Service Supplier International DQ Operators and the necessary working environment.
- 3.2.4 Service Supplier will be responsible for monitoring the quality, managing and providing management information about the LIME International DQ Service from the Point of Connection to the Service Supplier International DQ Call Centre in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the quality, managing and providing management information about the LIME International DQ Service from the Subscriber Connection to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's or Service Taker's management systems will not be provided.
- 3.2.5 Service Taker will be responsible for forecasting usage of the LIME International DQ Service in accordance with the Joint Working Manual.
- 3.2.6 Service Taker will be responsible for validating the called number against the valid international DQ number. In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not addressed to a number listed in the Service Schedule as valid numbers for the LIME International DQ Service.
- 3.2.7 Service Taker will be responsible for managing any end-to-end Services provided by Service Taker to Service Taker Subscribers that use the LIME International DQ Service.

3.3 Quality of service

- 3.3.1 In accordance with Clause 15, Service Supplier will provide the LIME International DQ Service twenty four (24) hours per day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 3.3.2 Quality of Service levels and Fault Restoration Times for the LIME International DQ Service will be measured and reported by Service Supplier in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.

3.4 Configuration

- 3.4.1 The LIME International DQ Service will be available at Service Supplier ISL / IPOP(s) specified in the Service Schedule.
- 3.4.2 Service Taker will deliver traffic in Trunk Groups at each Point of Connection where the LIME International DQ Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working

Manual and the Parameter Schedule.

- 3.4.3 Service Supplier will undertake the necessary routing and translation for all codes that require routing or translation across its System.

3.5 Charges

- 3.5.1 The tariffs for Charges for the LIME International DQ Service are specified in the Tariff Schedule.
- 3.5.2 The Charges for the LIME International DQ Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges.
- 3.5.3 Usage Charges will include:
- Call Duration Charges depending on duration.
- 3.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier and the number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.
- 3.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual, the tariffs will include all charges for the handling of signalling messages required based on the specification of the Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.
- 3.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the LIME International DQ Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual. Neither does it include any sums that may be payable pursuant to Clause 8.2.

- End of Service Description –

PART 4. TRANSIT SERVICES

1 PSTN Transit Service

1.1 Description

- 1.1.1 The PSTN Transit Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 1.1.2 The PSTN Transit Service will provide conveyance of Calls from Service Taker Subscriber Connections or from Third Party Telecom Provider Subscriber Connections (via the Service Taker System) destined for (a) a Third Party National Telecom Provider Subscriber Connection , (b) a Paging Provider Subscriber Connection, or (c) Service Supplier PLMN Subscriber Connections in [INSERT ECTEL MEMBER STATE] terminated via the PLMN Terminating Access Service from the Point of Connection defined by the Joining Service via the Service Supplier PSTN to the Point of Handover in [INSERT ECTEL MEMBER STATE] for collection by (a) the Third Party National Telecom Provider,(b) the Paging Provider, or (c) or a Service Supplier PLMN Subscriber Connection . The PSTN Transit Service also applies to Calls terminated pursuant to the Incoming International Call Termination to PLMN Service where the Call traverses the Service Supplier PSTN. An additional charge for ultimate termination of the Call assessed by the entity terminating the Call is collected by the Service Supplier and remitted to the terminating entity.
- 1.1.3 Valid number ranges for the Third Party National Telecom Provider Subscriber Connections, Paging Provider Subscriber Connections, and Service Supplier PLMN Subscriber Connections are listed in the Service Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 1.1.4 The PSTN Transit Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 1.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.

1.2 Specific Responsibilities

- 1.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 1.2.2 Service Supplier will be responsible for the metering and billing necessary to charge Service Taker for all Calls passed by Service Taker to a Third Party National Telecom Operator, a Paging Provider, or a Service Supplier PLMN Subscriber Connection via the Service Supplier PSTN using the PSTN Transit Service in accordance with the Joint Working Manual
- 1.2.3 Service Supplier will be responsible for the metering and billing necessary to pay Service Taker for all Calls passed by a Third Party Telecom Provider via the Service Supplier System to the Service Taker for termination on Service Taker Subscriber

Connections using the Transit Service in accordance with the Joint Working Manual.

- 1.2.4 Service Supplier will be responsible for monitoring the service quality, managing and providing management information about the PSTN Transit Service from the Point of Connection to the Point of Handover in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the service quality, managing and providing management information about the PSTN Transit Service from the Subscriber Connection to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's or Service Taker's management systems will not be provided.
- 1.2.5 Service Taker will be responsible for forecasting usage of the PSTN Transit Service in accordance with the Joint Working Manual.
- 1.2.6 Service Taker will be responsible for validating the called number against the valid Third Party National Telecom Provider numbers, the valid Paging Provider numbers, and the valid Service Supplier PLMN Subscriber Connections in accordance with the Numbering Scheme. In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not listed in the Service Schedule as valid numbers for the PSTN Transit Service.
- 1.2.7 Service Taker will be responsible for the end-to-end management of Calls made from Service Taker Subscriber Connections using the PSTN Transit Service

1.3 Quality of service

- 1.3.1 In accordance with Clause 15, the Service Supplier will provide the PSTN Transit Service twenty four (24) hours per day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 1.3.2 Quality of Service levels and Fault Restoration Times for the PSTN Transit Service will be measured and reported by Service Supplier in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.
- 1.3.3 For the avoidance of doubt, Service Supplier is not responsible for the service quality of Call completion beyond the Point of Handover.

1.4 Configuration

- 1.4.1 The PSTN Transit Service will be available at LIME ISL and Telco IPOP(s) specified in the Service Schedule.
- 1.4.2 Service Taker will deliver traffic in Trunk Groups at each Point of Connection where the PSTN Transit Service is offered and required and will route Calls in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.

1.5 Charges

- 1.5.1 Charges in respect of the PSTN Transit Service include the Charges specified in the Tariff Schedule as well as any charge levied by an entity to which the Call is delivered for termination.

- 1.5.2 The Charges for the PSTN Transit Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges, including charges levied by a Third Party National Telecom Provider or Paging Provider, or to the Service Supplier, for termination of the Call. Calls handed over to the Service Supplier for termination on its PLMN Subscriber Connections are assessed at the rates set out in respect of the PLMN Terminating Access Service.
- 1.5.3 Usage Charges include:
- Call Duration Charges depending on duration; and
 - Payments to the Third Party National Telecom Providers, and Paging Providers, and the Service Supplier where it terminates the Call pursuant to the PLMN Terminating Access Service, for completion of the Call.
- 1.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier, and the number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.
- 1.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.
- 1.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the PSTN Transit Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

- **End of Service Description** -

2 PLMN Transit Service

2.1 Description

- 2.1.1 The PLMN Transit Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 2.1.2 The PLMN Transit Service will provide conveyance of Calls from Service Taker Subscriber Connections or from Third Party National Telecom Provider Subscriber Connections (via the Service Taker System) destined for (a) a Third Party National Telecom Provider Subscriber Connection, or (b) a Paging Provider Subscriber Connection from the Point of Connection defined by the Joining Service via the Service Supplier PLMN to the Point of Handover in [INSERT ECTEL MEMBER STATE] for collection by (a) the Third Party National Telecom Provider, or (b) the Paging Provider . Calls originating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description. Calls ultimately terminating outside of [INSERT ECTEL MEMBER STATE] are not conveyed pursuant to this Service Description unless the domestic Subscriber to whom the Call is directed is roaming or has forwarded its number. Calls intended for international termination on a number other than the Subscriber Connection to which the Call was originally directed are not conveyed pursuant to this Service Description
- 2.1.3 Valid number ranges for the Third Party National Telecom Provider Subscriber Connections and Paging Provider Subscriber Connections are listed in the Service Schedule. The list will be amended from time to time to include any additional numbers to which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 2.1.4 The PLMN Transit Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the relevant Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 2.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.

2.2 Specific Responsibilities

- 2.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 2.2.2 Service Supplier will be responsible for the metering and billing necessary to charge Service Taker for all Calls passed by the Service Taker to a Third Party National Telecom Provider or a Paging Provider via the Service Supplier PLMN using the PLMN Transit Service in accordance with the Joint Working Manual.
- 2.2.3 Service Supplier will be responsible for the metering and billing necessary to pay Service Taker for all Calls passed by a Third Party Telecom Provider via the Service Supplier System to the Service Taker for termination on Service Taker Subscriber Connections using the Transit Service in accordance with the Joint Working Manual
- 2.2.4 Service Supplier will be responsible for monitoring the service quality, managing and providing management information about the PLMN Transit Service from the Point

of Connection to the Point of Handover in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the service quality, managing and providing management information about the PLMN Transit Service from the Service Taker Subscriber Connection to the Point of Connection in accordance with the Joint Working Manual. For the avoidance of doubt, access to the Service Supplier's or Service Taker's management systems will not be provided.

2.2.5 Service Taker will be responsible for forecasting usage of the PLMN Transit Service in accordance with the Joint Working Manual.

2.2.6 Service Taker will be responsible for validating the called number against the valid Third Party National Telecom Provider's numbers, or the valid Paging Provider numbers in accordance with the Numbering Scheme. In accordance with Clause 8.2 of the Legal Framework, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not listed in the Service Schedule as valid numbers for the PLMN Transit Service.

2.2.7 Service Taker will be responsible for the end-to-end management of Calls made from Service Taker Subscriber Connections using the PLMN Transit Service

2.3 Quality of service

2.3.1 In accordance with Clause 15 of the Legal Framework, the Service Supplier will provide the PLMN Transit Service 24 hours/day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.

2.3.2 Quality of Service levels and Fault Restoration Times for the PLMN Transit Service will be measured and reported by Service Supplier in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.

2.3.3 For the avoidance of doubt, Service Supplier is not responsible for the service quality of Call completion beyond the Point of Handover.

2.4 Configuration

2.4.1 The PLMN Transit Service will be available at LIME ISL and Telco IPOP(s) specified in the Service Schedule.

2.4.2 Service Taker will deliver traffic in a dedicated Trunk Group at each Point of Connection where the PLMN Transit Service is offered and required in accordance with the routing scheme and principles described in the Joint Working Manual and the Parameter Schedule.

2.5 Charges

2.5.1 Charges in respect of the PLMN Transit Service include the Charges specified in the Tariff Schedule as well as any charge levied by an entity to which the Call is delivered for termination.

2.5.2 The Charges for the PLMN Transit Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10, and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges, including Charges levied by a Third Party National

Telecom Provider, or Paging Providers for termination of the Call.

2.5.3 Usage Charges include:

- Call Duration Charges depending on duration; and
- Payments to the Third Party National Telecom Providers, and Paging Providers for completion of the Call.

2.5.4 The duration of an Answered Call will be measured from Call Start to Call End. The duration of an Answered Call will be logged by the Service Supplier, and the number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.

2.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual, the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.

2.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the PLMN Transit Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

- **End of Service Description** -

PART 5. INTERNATIONAL CALL ORIGINATION SERVICE

1 International Call Origination Service

1.1 Description

- 1.1.1 The International Call Origination Service will be provided by the Service Supplier to the Service Taker, in accordance with the terms and conditions of this Agreement.
- 1.1.2 The International Call Origination Service will provide conveyance of Calls originating on Service Supplier Subscriber Connections via the Service Supplier PSTN to the Point Of Connection defined by the Joining Service for onward connection to the Service Taker's network. Calls conveyed pursuant to this service description are intended for international termination by way of the Service Supplier, Service Taker or Third Party Telecom Provider network. Calls pursuant to this Service will be transmitted to the Service Supplier by way of a three digit access code. The International Call Origination Service does not guarantee the delivery of calls from the Service Taker PLMN Subscriber Connections (if applicable).
- 1.1.3 Valid access codes for Calls conveyed pursuant to this service description are listed in the Service Schedule. The list will be amended from time to time to include any additional numbers from which Calls are to be conveyed pursuant to this Service Description or to remove numbers. The process for adding or removing numbers is specified in the Joint Working Manual.
- 1.1.4 The International Call Origination Service can only be provided in conjunction with a Joining Service. Sufficient dedicated capacity must be in place within the Joining Service to handle the traffic in accordance with the Joint Working Manual.
- 1.1.5 The technical standards for voice telephony, operational processes and billing processes are described in the Joint Working Manual.

1.2 Specific Responsibilities

- 1.2.1 Without prejudice to the responsibilities described elsewhere in this Agreement, each Party shall have the responsibilities set out in this Paragraph 1.2 of this Service Description.
- 1.2.2 Service Supplier will be responsible for the metering necessary to monitor usage of all Calls passed by the Service Takers customer, from the Service Supplier Subscriber Connection, to the Point of Connection defined by the Joining Service.
- 1.2.3 Service Supplier will be responsible for monitoring the quality, managing and providing management information about the International Call Origination Service from the Service Supplier PSTN to the Point of Connection in accordance with the Joint Working Manual. Service Taker will be responsible for monitoring the quality, managing and providing management information about the International Call Origination Service from the Point of Connection. For the avoidance of doubt, access to the Service Supplier's or Service Taker's management systems will not be provided.
- 1.2.4 Service Taker will be responsible for forecasting usage of the International Call Origination Service in accordance with the Joint Working Manual.

- 1.2.5 In accordance with Clause 8.2, Service Supplier will be under no obligation to convey Calls pursuant to this Service Description that are not listed in the Service Schedule as valid numbers for the International Call Origination Service. Service Taker will be responsible for managing any end-to-end Services provided by Service Taker to Service Taker Subscribers that use the International Call Origination service. Service Taker shall be responsible for validating and billing its customers.

1.3 Quality of service

- 1.3.1 In accordance with Clause 15, the Service Supplier will provide the International Call Origination Service twenty four (24) hours per day, every day, to the Quality of Service levels set out in the Joint Working Manual and Parameter Schedule.
- 1.3.2 Quality of Service levels and Fault Restoration Times for the International Call Origination Service will be measured and reported by Service Supplier in accordance with the Joint Working Manual and Parameter Schedule. Service Supplier and Service Taker will periodically review the achieved quality parameters in accordance with the Joint Working Manual.
- 1.3.3 For the avoidance of doubt, Service Supplier is not responsible for the service quality of Call completion beyond the Point of Connection.

1.4 Configuration

- 1.4.1 The International Call Origination Service will be available at the LIME ISL and Telco IPOP(s) specified in the Service Schedule.
- 1.4.2 The International Call Origination Service will be available using the joining service established between the Service Supplier ISL specified in the Service Schedule and the Service Taker's IPOP.
- 1.4.3 Service Supplier will undertake the necessary routing and translation for the access codes that require routing or translation across its System.
- 1.4.4 CLI not will be passed from Service Supplier to Service Taker pursuant to this Service. The Service Taker will be required to validate and bill all calling parties based on its own call records.

1.5 Charges

- 1.5.1 The tariffs for Charges for the International Call Origination Service are specified in the Tariff Schedule.
- 1.5.2 The Charges for the International Call Origination Service are payable in accordance with Clause 9, can be varied in accordance with Clause 10 and are in addition to any other Charges payable for Services provided pursuant to this Agreement. Charges are the sum of applicable Usage Charges and include all payments to Third Party Telecom Providers and Paging Providers for each Answered Call.
- 1.5.3 Usage Charges include:
- Call Duration Charges depending on duration.
- 1.5.4 The duration of an Answered Call will be measured from Call Start to Call End. For the purposes of this Service, the terms Call Start and Call End are used in reference to the Call to the access code, and charging will apply regardless of whether the Service

Taker Customer Call to the international number Call to the international number is successfully completed. The duration of an Answered Call will be logged by the Service Supplier, and the number of Time Units that shall apply will be calculated by the Service Supplier. For each Answered Call, the duration will be measured to an accuracy of a Time Unit.

- 1.5.5 If the provision of Signalling Links is consistent with the dimensioning rule specified in the Joint Working Manual the tariffs will include all charges for the handling of signalling messages required based on the specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.
- 1.5.6 For the avoidance of doubt, the Tariff Schedule does not include any sums that may be payable by Service Taker as a result of inaccurate forecasting of the PSTN Transit Service and delays to provisioning and acceptance testing. Any such sums will be calculated and charged for in accordance with the Joint Working Manual.

- **End of Service Description** -