

# **Reference Interconnection Offer**

## **Service Descriptions**

**PART 1. JOINING SERVICES**

## 1 Joining Service

### 1.1 Description

One TELCO POI to one DIGICEL POI pair over Microwave consisting of one DIGICEL Microwave Antenna and Radio Equipment CTU at TELCO POI to one DIGICEL Microwave Antenna and Radio Equipment CTU at DIGICEL POI.

1.1.1 The Joining Service shall be delivered on the basis of f E1 2.048Mbit/s Network Links. The microwave Carrier System shall initially support a maximum of 8 x E1 2.048Mbps Network Links.. A Carrier System comprises a DIGICEL Circuit Termination Unit which is located at DIGICEL POI, the matching Circuit Termination Unit which is located at TELCO POI or Virtual POI, and the Transmission Medium. All Termination Units are procured, installed and maintained by DIGICEL.

1.1.2 The Carrier System more particularly described in the Joint Working Manual will provide E1 2.048Mbps Network Links for Services contained within the Service Schedule in accordance with the configuration described in Paragraphs 1.4 and 1.5 of this Service Description.

1.1.3 The technical standards and operational processes that apply to the Joining Service are defined in the Joint Working Manual and Parameter Schedule.

### 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 DIGICEL will be responsible for planning, providing, operating and maintaining the Joining Service up to and including TELCO Circuit Termination Unit(s) located in TELCO POI and the Point of Connection shall be the patch panel frame at the CTU.

1.2.3 TELCO will be responsible for providing secure site access within TELCO POI premises in accordance with Clause 16.2 of the Legal Framework and the Joint Working Manual, suitable for the installation and maintenance of one or more Circuit Termination Units on TELCO's premises.

1.2.4 In accordance with Clause 16 of the Legal Framework, TELCO will ensure that all equipment connected to the CTU on TELCO's premises meets the safety standards and other equipment approval requirements set out in the Joint Working Manual.

1.2.5 Notwithstanding Paragraph 1.2.2 of this Service Description, DIGICEL will be responsible for monitoring the quality of service, managing and providing management information about the Joining Service from DIGICEL CTUs up to and including the corresponding CTUs on TELCO's premises. The TELCO will be responsible for monitoring the quality of service, managing and providing management information from the CTU located at the POI in accordance with the Joint Working Manual and Parameter Schedule. For the avoidance of doubt, this does not include the provision of access to DIGICEL's or TELCO'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 Network Links within the Joining Service based on the 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 on-going basis. For the avoidance of doubt, the 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.

1.2.7 Where a 2.048Mbit/s Network Link includes one or more optional 64 Kbit/s Signalling Links, DIGICEL is responsible for extending each Signalling Link from DIGICEL CTU to DIGICEL Signalling Transfer Point. TELCO is responsible for extending each 64 Kbit/s Signalling Link from the CTU on TELCO's premises to TELCO Signalling Transfer Point.

1.2.8 TELCO is responsible for providing the terminated jumpers for connecting the CTUs on TELCO premises to TELCO System.

1.2.9 TELCO is responsible for providing a suitable environment for the CTUs on TELCO's premises in accordance with the manufacturer's specifications and the Joint Working Manual. This includes the provision of an adequate power supply.

1.2.10 TELCO will be responsible for operating and maintaining the DIGICEL Radio Equipment Circuit Termination Unit(s) located in TELCO POI, in collaboration with DIGICEL.

1.2.11 TELCO will ensure that all equipment connected to the CTU on TELCO's premises meets the safety standards and other equipment approval requirements set out in the Joint Working Manual.

### **1.3 Quality of service**

1.3.1 In accordance with Clause 15 of the Legal Framework, DIGICEL will provide the Joining Service 24 hours/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 Joining Service will be measured and reported by DIGICEL in accordance with the Joint Working Manual and Parameter Schedule and DIGICEL and TELCO will periodically review the achieved Quality of Service levels in accordance with the Joint Working Manual.

### **1.4 Microwave Configuration**

1.4.1 The Joining Service over will be provided by DIGICEL to TELCO, in accordance with the terms and conditions of this Agreement.

1.4.2 The Joining Service over Microwave connects one TELCO POI to one DIGICEL POI pair, both located in Guyana.

1.4.3 In the case of the joining service over Microwave the service will comprise:

- i) one DIGICEL Radio Equipment CTU located the DIGICEL POI.
- ii) one DIGICEL Radio Equipment CTUs located at TELCO POI.
- iii) one DIGICEL Microwave Antenna located at the DIGICEL POI.
- iv) one DIGICEL Microwave Antennas located at TELCO POI
- v) one DIGICEL Microwave Transmission Medium
- vi) zero, one or more DIGICEL 64 kbit/s Network Signalling Links subject to there being a minimum of two such links in total in place between DIGICEL and TELCO networks.

1.4.4 A Carrier System comprises a DIGICEL Radio Equipment Circuit Termination Unit which is located at DIGICEL POI, the matching DIGICEL Radio Equipment Circuit Termination Unit which is located at TELCO POI and the Microwave Antenna at each end. The DIGICEL Radio Equipment Circuit Termination Units and Microwave Antenna located at DIGICEL premises are procured, installed and maintained by DIGICEL. The DIGICEL Radio Equipment Circuit Termination Units and Microwave Antenna located at TELCO premises are procured by DIGICEL and installed and maintained by TELCO, working in collaboration with DIGICEL.

1.4.5 The TELCO shall reimburse DIGICEL for all equipment procured by DIGICEL under this service, located at or adjacent to TELCO Premises.

1.4.6 The Spectrum will be owned by DIGICEL.

1.4.7 The Point of Connection shall be the E1 connections on the Radio Equipment Circuit Termination Unit at TELCO POI.

1.4.8 The technical standards and operational processes that apply to the Joining Service over Microwave are defined in the Joint Working Manual and Parameter Schedule.

## **1.5 Tariffs**

1.5.1 The tariffs for the Charges for the Joining Service are specified in the Tariffs Schedule.

1.5.2 The Charges for the Joining Service are payable pursuant to Clause 9 of the Legal Framework, and Paragraph 1.5.4 and 1.5.5 of this Service Description, 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 One-off and Monthly Recurring Charges.

1.5.3 One-off Charges will include payment for equipment procured by DIGICEL for TELCOs premises plus any applicable installation and testing charges for Services in connection with the implementation of an Order Plan.

1.5.4 The TELCO will be responsible for all 3<sup>rd</sup> party charges associated with the location of DIGICEL Equipment at TELCO POI.

1.5.5 Other than the charges specified in the Tariff Schedule for the Joining Service each operator will bear its own costs for the implementation of the Interconnection service.

1.5.6 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 specification of this Service. For the avoidance of doubt, this does not include Roaming Messages and SMS messages.

1.5.7 For the avoidance of doubt, the Tariffs 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 of the Legal Framework, the billing arrangements set out below will apply to the Joining Service.

1.6.2 For Charges for the Joining Service (other than One-off Charges for installation and testing), DIGICEL shall invoice TELCO for TELCO's share of DIGICEL's Charges.

1.6.3 For One-off Charges for installation and testing, DIGICEL of the relevant Termination Service, Special Access Service or Wholesale Service shall be entitled to invoice TELCO of the relevant Termination Service, Special Access Service or Wholesale Service.

**PART 2. TERMINATION SERVICES**

## 2 PLMN Terminating Access Service

### 2.1 Description

2.1.1 The PLMN Terminating Access Service will be provided by DIGICEL to TELCO, in accordance with the terms and conditions of this Agreement.

2.1.2 The PLMN Terminating Access Service will provide conveyance of Calls which originate on a TELCO Subscriber Connection in Guyana from the Point of Connection to DIGICEL PLMN Subscriber Connections in Guyana, via DIGICEL PLMN. Calls must be addressed to valid Routing Parameters associated with DIGICEL PLMN Subscriber Connections in Guyana. Calls originating outside of Guyana are not conveyed pursuant to this Service Description.

2.1.3 The valid Routing Parameters associated with DIGICEL 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 Sufficient dedicated capacity must be in place 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 3.2 of this Service Description.

2.2.2 DIGICEL will be responsible for the metering and billing necessary to charge TELCO for all Calls passed by TELCO to DIGICEL PLMN using the PLMN Terminating Access Service in accordance with the Joint Working Manual.

2.2.3 DIGICEL will be responsible for monitoring service quality, managing and providing management information about the PLMN Terminating Access Service from the Point of Connection to DIGICEL PLMN Subscriber Connection and TELCO will be responsible for monitoring the service quality, managing and providing management information about the PLMN Terminating Access Service from TELCO 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 DIGICEL's or TELCO's management systems will not be provided.

2.2.4 TELCO will be responsible for forecasting usage of the PLMN Terminating Access Service in accordance with the Joint Working Manual.

2.2.5 The TELCO shall not insert and shall not permit a third party to insert a CLI into a Call that originated outside of Guyana, which indicates that the call originated inside Guyana. In the event that DIGICEL knows or reasonably believes that a Call passed to DIGICEL by TELCO originated outside of Guyana, and DIGICEL is obligated to convey the Call, DIGICEL shall convey such Call pursuant to the Clause 13 of the Legal Framework.

2.2.6 TELCO will be responsible for validating the called number according to the National Numbering Plan and the valid Routing Parameters associated with the PLMN Subscriber Connections in the Service Schedule. In accordance with Clause 8.2 of the Legal Framework, DIGICEL will be

under no obligation to convey Calls pursuant to this Service Description that are not part of the applicable DIGICEL Numbering Ranges.

2.2.7 TELCO will be responsible for managing any end-to-end Services provided by TELCO to TELCO Subscriber Connections that use the PLMN Terminating Access Service.

### **2.3 Quality of service**

2.3.1 In accordance with Clause 15 of the Legal Framework, DIGICEL 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. DIGICEL and TELCO will periodically review the achieved quality parameters in accordance with the Joint Working Manual.

2.3.3 For Calls that have been transited through TELCO network, TELCO 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 DIGICEL POI/IPOP(s) specified in the Service Schedule.

2.4.2 TELCO 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 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.

2.5.3 Usage Charges include Call Duration Charges depending on duration and Tariff Period.

2.5.4 For each Answered Call, the Call Setup Charge will be applicable when Call Start occurs.

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

2.5.6 The start and end times of the peak, off-peak and weekend periods are defined in the Tariffs Schedule. Answered Calls passing the peak / off-peak / weekend borders will be calculated according to the corresponding tariffs by splitting the duration into the relevant periods.

2.5.7 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.

2.5.8 For the avoidance of doubt, the Tariffs Schedule does not include any sums that may be payable by TELCO 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. Neither does it include any sums payable pursuant to Clause 8.2 of the Legal Framework.