

# TECHNICAL DETAILS OF INTERCONNECTION

The details of the technical interconnection shall be agreed to between the Second Party and GO.



#### OPERATIONAL AND MAINTENANCE PROCEDURES

- 1. It is agreed that GO and the Second Party shall maintain the interface in a state where the quality of service offered to either subscriber shall be acceptable to both parties. Maintenance includes the techniques aiming at minimising the loss of service quality caused by failure, means to detect such failures and to report them accurately to the right person(s) within agreed time and finally the means to restore the state of the network.
- 2. The interface here refers to E1 links conforming to the G703 standards, connecting the respective gateway switching centres. The locations of the switches mentioned above could be close or apart.
- 3. The Second Party and GO shall agree upon the detailed operational and maintenance procedures to be adopted.



#### INTERCONNECTION SERVICE

#### 1. Provision of Interconnection Service

- 1.1 Second Party and GO shall each connect and keep connected the Systems subject to the terms and conditions set out in this Agreement for the purpose of enabling the provision by GO to the Second Party of the Call Conveyance Services.
- 1.2 The following matters shall be subject to the agreement of both Parties:-
  - 1.2.1 the initial number of Points of Connection and the establishment from time to time of any additional Points of Connection;
  - 1.2.2 the location of each Point of Connection (and the corresponding GO Switch Connection and Second Party Switch Connection). In any event, each Party shall ensure that the Interconnection at each Point of Connection shall be established in accordance with the provisions as will be agreed in Schedule 1.
- 1.3 Before any Calls are conveyed via the Interconnection, the Parties shall agree which tests shall be applicable to the Interconnection. Once such tests have been agreed the Parties shall carry them out as agreed between the Parties. When it is agreed that such testing has been completed to the mutual satisfaction of both Parties and subject thereto, Calls may be conveyed via the Interconnection subject to the terms and conditions of this Agreement. GO shall have no obligation to convey Calls until such testing has been completed to the mutual satisfaction of both Parties.
- 1.4 Interconnection of the Systems shall be in accordance with the interface specifications, operational procedures and requirements as will be agreed in Schedule 1 and (without prejudice to the generality of the foregoing) the operational procedures set out in Schedule 2 to this Agreement.
- 1.5 The Second Party shall be responsible for procuring and paying for all charges for any Interconnection Circuits, which are required hereunder to convey Calls from the Second Party System to the GO System. The Second Party shall ensure that all such Interconnection Circuits comply with the requirements for Interconnection Circuits as will be agreed to in Schedule 1. The initial Interconnection Circuit Capacity of such Interconnection Circuits (and any subsequent increase in the Interconnection Circuit Capacity of such Interconnection Circuits) shall be subject to the mutual agreement of the Parties. If either Party believes that the Interconnection Circuit Capacity of the Interconnection Circuits is being under utilised it may notify the other Party and the Parties may (subject to their mutual agreement) reduce such interconnection Circuit Capacity accordingly.



- 1.6 The Second Party shall prepare and provide to GO forecasts of the Second Party's requirements for Interconnection Circuit Capacity and the corresponding Port Capacity at each Point of Connection as will be agreed to in Schedule 1.
- 1.7 Neither Party shall make or permit to be made any alterations or adjustments or addition to the Interconnection or to any plant equipment or apparatus of the other Party used in connection therewith in such a way as materially to impair the operation of the System of the other Party or otherwise materially to affect the conveyance of Messages by means of the Interconnection.
- 1.8 Each Party shall afford to the other the reasonable opportunity from time to time (after reasonable advance notice) for verifying that the other Party is complying with the standards and operational procedures contained in this Agreement provided that such verification shall not interfere with the telecommunications services provided by the other Party.
- 1.9 In the event of any fault in the Interconnection, the Party within whose System such fault arises shall use all reasonable endeavours to ensure restoration of the Interconnection in accordance with the targets and other procedures set out in Schedule 2.
- 1.10 Save as expressly set out in this Schedule 3 the provisions of Schedule 2 are not intended to give rise to any legally binding obligations upon either Party.

#### 2. Charges for the Interconnection Service

- 2.1 The Second Party shall pay GO's charges in relation to the establishment of the Interconnection which shall be based upon:-
  - 2.1.1 the costs of equipment apparatus and materials;
  - 2.1.2 labour at normal charge out rates;
  - 2.1.3 charges incurred in respect of payments to independent contractors, which GO incurs to establish the Point(s) of Connection;
  - 2.1.4 relevant overheads;
  - 2.1.5 which are provided, expended or used by GO for the purpose of establishing and providing the Interconnection.
- 2.2 GO shall advise the Second Party of its estimated charges to be incurred by GO pursuant to paragraph 2.1. The Second Party shall confirm in writing that the estimate is acceptable and GO shall not be required to undertake the establishment of the Interconnection or incur any charges until such confirmation has been received by GO. The Parties hereby agree that the estimated charges may change and that the Second Party shall pay GO's final charges, even if such charges exceed the estimate.



- 2.3 GO shall provide, together with its invoice, a breakdown of its charges in relation to the establishment of the Interconnection. The Second Party shall pay GO such charges within 30 days of GO's invoice in respect thereof.
- 2.4 GO shall be entitled to charge the Second Party GO's reasonable costs, which GO incurs in connection with the maintenance of the Interconnection.

### 3. Port Capacity

- 3.1 GO shall provide Port Capacity to the Second Party at the GO Switch Connection. The Port Capacity to be made available at each GO Switch Connection (and any changes to any such Port Capacity) shall be subject to the mutual agreement of the Parties.
- 3.2 The Second Party shall pay GO's charges for Port Capacity provided by GO hereunder, at the rates (if any) as established by GO from time to time in accordance with its regulatory obligations.
- 3.3 GO's charges for Port Capacity shall be payable annually in advance or at such other times and in such other manner as may be established by GO in accordance with its regulatory obligations as may be applicable to it from time to time.



# SCHEDULE 4 PART 1.

#### BASIC CALLS TO THE GO SYSTEM

#### 1. Additional Definitions

- 1.1 This Schedule 4 Part I shall apply to GO Basic Calls in respect of which the following additional definitions shall apply: -
- 1.1.1 "GO Basic Call": a Call comprising the minimum service features necessary to support a circuit switched speech or data path through the GO System handed over from the Second Party System to the GO System destined for a telephone number in any of the NNGs specified in Appendix A of this Schedule 4 Part 1

#### 2. Description of Service

- 2.1 Subject to the provisions of this Schedule 4, Part 1, GO shall convey to the appropriate GO Network Termination Point, GO Basic Calls handed over from the Second Party System.
- 2.2 For the avoidance of doubt, this Part of Schedule 4 shall not apply to any Call Conveyance Service, which is specifically addressed in another Part of this Schedule 4 and further, shall not apply to the conveyance of packet data calls of any description.
- 2.3 The Parties shall agree in advance all necessary technical requirements (including Call set up and clear down sequences) for the conveyance of GO Basic Calls pursuant to this Schedule 4, Part 1.
- 2.4 GO shall convey GO Basic Calls during those periods of time and at the same standard and quality of service as GO conveys similar Calls.
- 2.5 Each Party shall in accordance with such Party's normal engineering practices, correct faults which occur in its System which affect the conveyance of GO Basic Calls. For the avoidance of doubt, neither Party warrants that its System is, or will be, free from faults.

# 3. Routing

3.1 GO shall convey GO Basic Calls handed over from the Second Party System in accordance with the routing principles as will be specified in Schedule 1.



#### 4. Charging

- 4.1 GO's charges for the conveyance of GO Basic Calls shall apply to Calls in respect of which the called party answer signal is returned across the interface between the two Systems but charges shall not apply to Calls made to:
  - (a) an invalid number;
  - (b) a called station which is already engaged unless the called station successfully diverts such Call.
- 4.2 Subject to Paragraph 4.1, charges for the conveyance of GO Basic Calls will commence when the called station answers or any other apparatus answers the Call on behalf of the called station.
- 4.3 GO shall invoice the Second Party in respect of GO's charges for the conveyance of GO Basic Calls on a calendar monthly basis in arrears.
- 4.4 GO's Charges for the conveyance of GO Basic Calls shall be calculated on bulk traffic (not Call by Call). An accounting summary report shall be sent with each invoice sent to the Second Party by GO. This accounting summary report will detail for each calendar month:-
  - 4.4.1 the total number of chargeable Calls; and
  - 4.4.2 total chargeable Call duration (which shall equal the aggregate duration of all Calls measured in units of one second);
  - 4.4.3 the applicable cents or part thereof per minute rate as set out in the GO Price List in Schedule 5;
  - 4.4.4 the total charge (being the product in Euro of the applicable cents or part thereof per minute rate and the total chargeable Call duration);
  - 4.4.5 by Call type and charge band where applicable.

#### 5. Additional NNGs

GO may by notifying the Second Party in writing from time to time advise Second Party of additional NNGs applicable to GO Basic Calls. GO's charges for the conveyance of GO Basic Calls to any such NNGs shall be as set out in the GO Price List in Schedule 5.



# 6. Commencement

GO shall convey GO Basic Calls handed over from the Second Party System commencing on a date to be agreed in writing between the Parties.



# SCHEDULE 4. PART 1. Appendix A

NNGs applicable to GO Basic Calls

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# **SCHEDULE 4. PART 2.**

This part has been omitted as it is not applicable.



# SCHEDULE 4. Part 2. Appendix A

This part has been omitted as it is not applicable.



# SCHEDULE 4. PART 2. Appendix B

This part has been omitted as it is not applicable.



#### SCHEDULE 4. PART 3

#### CALLS TO GO'S SECOND PARTY SERVICE

#### 1. Additional Definitions

- 1.1 This Schedule 4 part 3 shall apply to the conveyance of GO Second Party Service Calls in respect of which the following additional definitions shall apply:-
  - 1.1.1 "GO Second Party Service Call" means a Call comprising the minimum service features necessary to support a circuit switched speech path through the GO System handed over from the Second Party System to the GO System destined for a telephone number in any of the NNGs specified in Appendix A of this Schedule 4 Part 3.

# 2. Description of Service

- 2.1 Subject to the provisions of this Schedule 4, Part 3, GO shall convey to the appropriate GO Network Termination Point, GO Second Party Service Calls handed over from the Second Party System.
- 2.2 For the avoidance of doubt, this Part of Schedule 4 shall not apply to any Call Conveyance Service, which is specifically addressed in another Part of this Schedule 4 and further, shall not apply to the conveyance of packet data calls of any description.
- 2.3 The Parties shall agree in advance all necessary technical requirements (including Call set up and clear down sequences) for the conveyance of GO Second Party Service Calls pursuant to this Schedule 4, Part 3.
- 2.4 GO shall convey GO Second Party Service Calls during those periods of time and at the same standard and quality of service as GO conveys similar Calls.
- 2.5 Each Party shall in accordance with such Party's normal engineering practices, correct faults which occur in its System which affect the conveyance of GO Second Party Service Calls. For the avoidance of doubt, neither Party warrants that its System is, or will be, free from faults.



#### 3. Routeing

3.1 GO shall convey GO Second Party Service Calls handed over from the Second Party System in accordance with the routing principles specified in Schedule 1.

## 4. Charging

- 4.1 'GO's charges for the conveyance of GO Second Party Service Calls shall apply to Calls in respect of which the called party answer signal is returned across the interface between the two Systems but charges shall not apply to Calls made to:
  - 4.1.1 an invalid number:
  - 4.1.2 a called station which is already engaged unless the called station successfully diverts such Call.
- 4.2 Subject to Paragraph 4.1, charges for the conveyance of GO Second Party Service Calls will commence when the called station answers or any other apparatus answers the Call on behalf of the called station.
- 4.3 GO shall invoice the Second Party in respect of GO's charges for the conveyance of GO Second Party Service Calls on a calendar monthly basis in arrears.
- 4.4 GO's Charges for the conveyance of GO Second Party Service Calls shall be calculated on bulk traffic (not Call by Call). An accounting summary report shall be sent with each invoice sent to the Second Party by GO. This accounting summary report will detail for each calendar month:-
  - 4.4.1 the total number of chargeable Calls; and
  - 4.4.2 total chargeable Call duration (which shall equal the aggregate duration of all Calls measured in units of one second); and
  - 4.4.3 the applicable cents or part thereof per minute rate as set out in the GO Price List in Schedule 5;
  - 4.4.4 the total charge (being the product in Euro of the applicable cents or part thereof per minute rate and the total chargeable Call duration);
  - 4.4.5 by Call type and charge band.



#### 5. Additional NNGs

GO may by notifying the Second Party in writing from time to time advise Second Party of additional NNGs applicable to GO Second Party Service Calls. GO's charges for the conveyance of GO Second Party Service Calls to any such NNGs shall be as set out in the GO Price List in Schedule 5 from time to time.

#### 6. Commencement

GO shall convey GO Second Party Service Calls handed over from the Second Party System commencing on a date to be agreed in writing between the Parties.



# SCHEDULE 4 PART 3 Appendix A

NNGs applicable to GO Second Party Service Calls



#### SCHEDULE 4. PART 4.

# INCOMING INTERNATIONAL CALLS TO THE GO SYSTEM INCLUDING CALLS TO SPECIFIED ANCILLARY SERVICES)

#### 1. Additional Definitions

- 1.1. This Schedule 4 part 4 shall apply to GO Incoming International Calls in respect of which the following additional definitions shall apply:-
  - 1.1.1 "GO Incoming International Call" means a call received by the Second Party System from an Authorised Overseas System comprising the minimum service features necessary to support a circuit switched speech path through the GO system handed over from the Second Party System to the GO System destined for a telephone number in any of the NNGs specified in Appendix A of this Schedule 4 Part 4.

## 2. Description of Service

- 2.1. Subject to the provisions of this Schedule 4, Part 4, GO shall convey GO Incoming International Calls to the appropriate GO Network Termination Point or in the case of GO Incoming International Calls addressed to Ancillary Services, to the appropriate terminal apparatus or other equipment.
- 2.2. For the avoidance of doubt, this Part of Schedule 4 shall not apply to any Call Conveyance Service which is specifically addressed in another Part of this Schedule 4 and further, shall not apply to the conveyance of packet data calls of any description.
- 2.3. The Parties shall agree in advance all necessary technical requirements (including Call set up and clear down sequences) for the conveyance of GO Basic Calls pursuant to this Schedule 4, Part 4.
- 2.4. GO shall convey GO Incoming International Calls during those periods of time and at the same standard and quality of service as GO conveys similar Calls.
- 2.5. Each Party shall in accordance with such Party's normal engineering practices, correct faults which occur in its System which affect the conveyance of GO Incoming International Calls. For the avoidance of doubt, neither Party warrants that its System is, or will be, free from faults.



## 3. Routeing

3.1. GO shall convey GO Incoming International Calls handed over from the Second Party System in accordance with the routeing principles as will be specified in Schedule 1.

#### 4. Charging

- 4.1 GO's charges for the conveyance of GO Incoming International Calls shall apply to Calls in respect of which the called party answer signal is returned across the interface between the two Systems but charges shall not apply to Calls made to:
  - 4.1.1. an invalid number;
  - 4.1.2. a called station which is already engaged unless the called station successfully diverts such Call.
- 4.2. Subject to Paragraph 4.1, charges for the conveyance of GO Incoming International Calls will commence when the called station answers or any other apparatus answers the Call on behalf of the called station.
- 4.3. GO shall invoice the Second Party in respect of GO's charges for the conveyance of GO Incoming International Calls on a calendar monthly basis in arrears.
- 4.4. GO's Charges for the conveyance of GO Incoming International Calls shall be calculated on bulk traffic (not Call by Call). An accounting summary report shall be sent with each invoice sent to the Second Party by GO. This accounting summary report will detail for each calendar month:-
  - 4.4.1 the total number of chargeable Calls; and
  - 4.4.2 total chargeable Call duration (which shall equal the aggregate duration of all Calls measured in units of one second); and
  - 4.4.3 the applicable cents or part thereof per minute rate as set out in the GO Price List in Schedule 5; and
  - 4.4.4 the total charge (being the product in Euro of the applicable cents or part thereof per minute rate and the total chargeable Call duration);
  - 4.4.5 by Call type and charge band.



#### 5. Additional NNGs

GO may by notifying the Second Party in writing from time to time advise Second Party of additional NNGs applicable to GO Incoming International Calls. GO's charges for the conveyance of GO Incoming International Calls to any such NNGs shall be as set out in the GO Price List from time to time.

#### 6. Commencement

GO shall convey GO Incoming International Calls handed over from the Second Party System commencing on a date to be agreed in writing between the parties.



# SCHEDULE 4 PART 4 Appendix A

# NNGs applicable to GO Incoming International Calls

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## **GO Price List**

1. The following Charges shall apply:

SERVICE	Payment to GO (Euro cents per minute)
1. Local Fixed to GO (mobile)	0.20
2. Local Mobile to GO (mobile)	0.20

2. All Charges are exclusive of Value Added Tax and any other taxes, which shall be paid in addition by the Second Party at the applicable rate then obtaining.



# SUPPORTING BILLING INFORMATION

- 1. Each party is responsible for obtaining, recording and maintaining the necessary Interconnect Billing Information.
- 2. Billing Information shall include the following:

Per charge band, per day, per call type:

**Total calls** 

**Total minutes** 



#### **QUALITY OF SERVICE**

#### 1. GENERAL

- 1.1 It is the declared aim of both The Second Party and GO Communications Ltd to provide and maintain at all times a high standard of service with minimal disruption of service to the customer.
- 1.2 The parties will co-operate to maximise the overall quality of the conveyance of calls and will adopt the general principles on standards, techniques and methodology for the achievement of quality in telecommunications networks and services including the relevant ITU-T standards and ETSI standards.
- 1.3 Standards shall be agreed for each type of service and system that are employed or provided between the two parties, these shall include:
  - Speed of response and quality of performance when dealing with faults and network issues

## 2. QUALITY OF SERVICE

- As services are introduced and delivered the parties shall agree relevant quality of service parameters and measurements for monitoring of quality of service. These will include sample sizes, frequency, time and performance threshold criteria. The parties shall use their reasonable endeavours to detect and correct adverse trends before they result in adverse performance. When a new service is to be provided quality of service standards shall be agreed either before or within one month of the introduction of service. Such agreement shall normally be proposed and agreed by the Joint Technical Committee and endorsed by the Managing Directors of both Companies.
- 2.2 If a quality of service problem is identified the parties shall exchange information about the problem, including the information set out in 2.1 above together with the following information:
  - critical levels for traffic and unsuccessful call attempts
  - information on sources of traffic
  - information on timing and synchronisation and slippage rates.



- 2.3 The parties shall use reasonable endeavours to identify and resolve the problems and if the parties fail to resolve the problem either party may notify the other in accordance with the escalation procedure as laid down in the operations annexed to the Interconnect agreement.
- 2.4 Routes carrying traffic between the networks in either or both directions shall be designed to operate at a busy hour grade of service of 0.008 subject to the route dimension giving a grade of service of 0.02 at 10% traffic overload and a grade of service of 0.05 at 20% overload. Only under extreme failure conditions should the networks not process all the calls offered. If these standards are not met, then the responsible party will initiate action to restore the standard.
- 2.5 In addition to the grade of service the quality of link performance will be measured and monitored to maintain a high standard of performance. Measurement shall be recorded based upon availability, errored seconds and severely errored seconds over a one-month period.
- 2.6 The Second Party shall ensure that the Second Party System shall (to the extent that the Second Party System is able to do so) generate and convey to the GO System the CLI associated with all Calls passed from the Second Party System to the GO System where that Call has originated in Malta.
- 2.7 Where the Call originates from outside Malta, the Second Party should present CLI to GO where it is commercially available from the originating network. GO shall be entitled to use such CLI for administrative purposes and (subject to clause 2.8 below) for presentation purposes and to pass such CLI to third party telecommunications operators for such purposes.
- 2.8 The provision of CLI for presentation purposes shall be subject to such restrictions and arrangements as may be established between the Parties from time to time.
- 2.9 Any arrangements which the Parties make with regard to CLI shall be subject to any obligation or condition under either Party's licence or any statutory or legal obligation or restriction with regard to confidentiality or otherwise, including the Data Protection Act (Chapter 440 of the Laws of Malta) and the Electronic Communications (Regulation) Act (Chapter 399 of the Laws of Malta) and any other applicable laws and regulations.
- 2.10 Each Party shall comply with the reasonable requests of the other made for the purposes of complying with the applicable laws and regulations mentioned in clause 2.9.



- 2.11 The second party shall ensure that in the case that it handles whether directly or indirectly incoming international calls to be conveyed by GO in accordance with Schedule 4 part IV, it shall:
  - (a) Provide at all times adequate port capacity (Interconnection Circuits) capable and sufficient to meet the quality of service standards that are acceptable to GO. The port capacity shall be exclusively dedicated to such incoming international calls and should be at all times kept separate and distinct from the port capacity provided for conveyance by GO of other types of calls.
  - (b) Comply with the following:

## (1) CLI Transparency,

The Second Party shall ensure the transparent routing of CLI where commercially available from the authorised overseas system, (CLI presentation and CLI restriction) through the Second Party system.

## (2) Signalling System No 7 transparency

The Second Party shall ensure at all times the transparent routing of SS7 messages, ensuring against removal or alteration of signalling information and the correct mapping of signalling parameters through the Second Party system.