



## Reference Interconnection Offer

### SERVICE SCHEDULES

Schedule	Interconnection Service
1	General – Interconnection Links and Co-location for Point of Interconnection
1A	In-Span Interconnection
1B	Customer-Sited Interconnection
1C	Co-location for Point of Interconnection
2	Mobile Services (Voice, SMS)
3	Fixed Voice Termination
4	Emergency and Special Call



## Reference Interconnection Offer



**Reference Interconnection Offer**

# Schedule 3

---

## Fixed Voice Termination

## Reference Interconnection Offer

### 1. SERVICE DESCRIPTION

#### 1.1 General

This Schedule 3 is a reciprocal Schedule and describes mutual Services. In this Schedule 3, the Supplier means the Party supplying a Service, and the Acquirer means the Party acquiring a Service. For the avoidance of doubt, in this Schedule 3, MPT shall be in the position of the Supplier for Services provided to the Requesting Licensee and shall be in the position of the Acquirer for Services acquired from the Requesting Licensee and the Requesting Licensee shall be in the position of the Supplier for Services provided to MPT and shall be in the position of the Acquirer for Services acquired from MPT.

- a) Termination Service

#### 1.2 Fixed Voice Termination Service

- a) Fixed Voice Termination Service refers to a voice call handed over from Requesting Licensee's Network to MPT's network and terminates in MPT's network and from MPT's Network to Requesting Licensee's Network and terminates in Requesting Licensee's network.

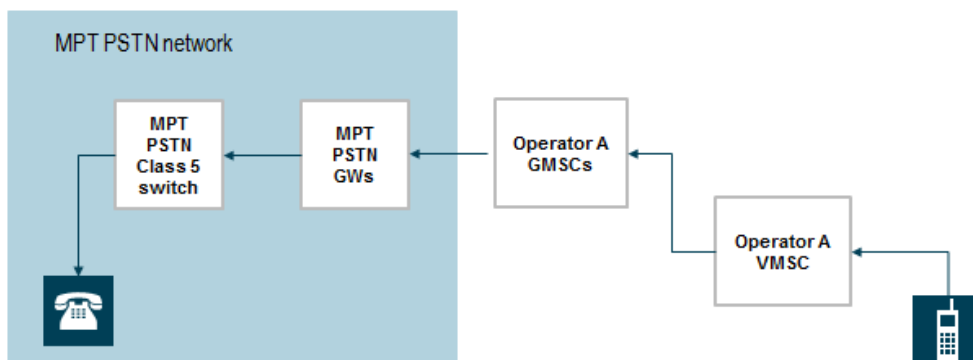


Figure 1: Illustration of Fixed Voice Termination Service

- b) Each Party will provide the following two types of termination service:

### Reference Interconnection Offer

	Type of Termination Service	Handover Point
1	Single Transit Termination	<b>Transit (or Tandem) switch</b> to which the local switch of the end User is directly connected.
2	Multiple Transit Termination	<b>Transit (or Tandem) switch that must be routed over (at least) another Transit (or Tandem) switch</b> before being sent to the destination local switch.

## Reference Interconnection Offer

## **2. TERMS AND CONDITIONS**

### **2.1 General**

Each Party shall correct faults that occur in its Network which affect the conveyance of Calls in accordance with such Party's normal engineering practices. For the avoidance of doubt, neither Party warrants that its Network is, or will be, free from faults.

### **2.2 Handover of Calls**

One Party must handover Calls for termination by other Party to a Called PSTN Number at the Point of Interconnection which is closest to the location at which the Call to the Called PSTN Number terminates or other Point of Interconnection agreed in writing by the parties.

Information signals provided in the associated signalling system are also to be handed over. Further technical details shall be as specified in the Network Plan.

### **2.3 Signalling interconnection**

The transfer of signals to support the establishment, maintenance and disconnection of Telephone Calls will be via the signalling interconnection procedures as agreed.

### **2.4 Echo control**

Echo control will be provided as agreed between operators

### **2.5 Nature of switch ports**

a) Telephone Calls will be delivered to the receiving Party via an E1 at 2.048 Mbit/s Switch ports or a 10 Gbit/s Ethernet link via a Point of Interconnection, as determined by mutual agreement of both Parties.

b) The Switch ports will operate at 2.048 Mbit/s.

### **2.6 Send and receive speech level**

The send and receive levels for speech will be provided as agreed between operators.

## Reference Interconnection Offer

### **2.7 Provision of network cause**

The content of the release signal should wherever possible indicate the accurate reason for the termination.

### **2.8 Provision of CLI**

- a) The SS7 signalling provided by the sending Party must include the provision of CLI information in a format which allows receiving Party to derive unambiguously the full Mobile Number or PSTN Number of the Calling Party to the full extent that the provision of such CLI information is capable of being supported by SS7 Signalling.
- b) A sending Party may, in exceptional circumstances where its network is not capable of generating CLI, seek specific dispensation from the receiving Party and the Regulator not to provide CLI.

### **2.9 Calling number display**

The parties will comply with the agreed provisions relating to calling number display.

### **2.10 Interconnection using IP**

Any technical specification, detail or procedure on interconnection using IP, including testing procedures, must be discussed and agreed by both parties.

### **2.11 Customer Registration, Billing and Debt**

The Requesting Licensee is responsible for customer registration, customer billing and collection of bad debts from customers in respect of the provision of telecommunications services to its customers using Termination services.



## Reference Interconnection Offer

### **3. TECHNICAL SPECIFICATIONS**

Technical specifications will be set out in the Network Plan



## Reference Interconnection Offer

### 4. OPERATING PROCEDURE

#### 4.1 Number level activation

Requesting must inform the other Party about any new number blocks to be activated, together with associated routing plans:

	Activity	Details
1	Notification	<ul style="list-style-type: none"> <li>Requesting Party informs the other Party two (2) weeks in advance of any new Number Level Activations, including information such as numbers to be activated, date of activation and routing plan</li> </ul>
2	Arrange for number level activation to occur	<ul style="list-style-type: none"> <li>If number level activation cannot be performed on requested date, MPT the notified Party will inform the requesting Party within five (5) Business Days, indicating the reason and will suggest an alternative date on which the activation will occur</li> </ul>

#### 4.2 New Call Type

a) Then the requesting Party must inform the other Party about which call type (e.g. local calls, emergency calls, special services calls, etc) are requested to be implemented:

	Activity	Details
1	Notification to Other Party	<ul style="list-style-type: none"> <li>Requesting Party informs the other Party of its request to extend the use of the Call Termination Service to a particular Call Type</li> </ul>
2	Assess request	<ul style="list-style-type: none"> <li>The notified Party shall assess that request and notify the requesting Party within ten (10) Business Days</li> </ul>
3	Review implementation requirements and timetable	<ul style="list-style-type: none"> <li>If implementation of the request involves only Network Conditioning in the notified Party's Network, implementation planning shall be fifteen (15) Business Days; or</li> <li>If implementation of the request involves work in addition to or as an alternative to Network Conditioning in the notified Party's Network, in which case the implementation planning shall be ninety (90) Business Days</li> <li>Implementation timetable must be agreed by both parties within implementation planning period as specific above</li> </ul>
4	Implement	<ul style="list-style-type: none"> <li>Requesting Party shall be liable for the costs incurred by the notified Party in processing and implementing the requesting Party's request to extend the use of the Call Termination Service to a particular Call Type</li> <li>If additional cost beyond normal cost incurred in provisioning of termination service, the notified Party shall notify the other operator within</li> </ul>



### Reference Interconnection Offer

		10 days and seek agreement to continue. (Requesting Party will be liable for all additional cost)
--	--	---

- b) A draft form for call type request is attached in Annex.

**Reference Interconnection Offer**

**5. COMMERCIAL CHARGES, PRINCIPLES AND TERMS**

**5.1 Charging Principles**

Fixed Voice termination charging principle is based on “Layer” (i.e. Single, and Multiple Transit) principle. This is due to relatively ease of implementation and reflects cost of providing termination service for long distance call.

**5.1 Charges (One – Off)**

**Table A: Application Charge**

For all types of application, including but not limited to request for service and request for termination.

Type of Charge	Tariffs (MMK)		
	2014	2015	2016
Application Charge (Per each single Service Application)	50,000	50,000	50,000

**Table B: Setup Charges (To activate or deactivate a Service)**

- a) These charges include but not limited to equipment and fibre installation / removal, software configuration, manpower for co-ordination, service testing and etc.
- b) The necessity of all work chargeable on a time and materials basis shall be justified by MPT.

Type of Charge	Tariffs (MMK)		
	2014	2015	2016
Service Activation (Per link)	Case – by case basis		
Service Deactivation (Per link)			

## Reference Interconnection Offer

### 5.2 Charges (Recurring)

**Table A: Fixed Voice Termination Charges**

Charges are stated in minutes, however actual charges will be on per 6 seconds basis.

Charges on per 6 seconds basis will be round to nearest whole number.

Type of Charge	(Tariffs) MMK per minute		
Single Transit termination (Per minute)	12.25		
Multiple Transit termination (Per minute)	12.25		

### 5.3 Billing Calculations

- a) The agreed unit for calculating the charges is stated in the respective table.
- b) The Call Duration of use of the circuit starts at the time the circuit used for the Fixed Voice Call is seized and ends at the time the circuit is released. All Fixed Voice Calls that are successfully connected are chargeable. Fixed Voice Calls that are not successfully connected shall not be chargeable.

## Reference Interconnection Offer

### 6. SERVICE LEVELS

#### 6.1 Service Criteria – Call Availability

Service level for Fixed Voice Termination Service will be based on Call Availability per month as follows:

<b>Measurement And Frequency Of Measurement</b>
<p>Call Availability            = ((Total Call Attempts – Total Call Releases With Causes Marked As Network Fault) / Total Call Attempts) * 100%</p> <p>Where Release causes marked as network faults are the following causes specified in ITU-T rec. Q.850:</p> <ul style="list-style-type: none"> <li>a) * no circuit/channel available</li> <li>b) * network out of order</li> <li>c) * temporary failure</li> <li>d) * switching equipment congestion</li> <li>e) * access information discarded</li> <li>f) * requested circuit/channel not available</li> <li>g) * resource unavailable, unspecified</li> <li>h) * bearer capability not presently available</li> <li>i) * protocol error, unspecified</li> <li>j) * interworking, unspecified.</li> </ul> <p>Excluding downtime in any month during which the Service is not available due to any of the following:</p> <ul style="list-style-type: none"> <li>a) Force Majeure</li> <li>b) Failure of the Requesting Licensee’s equipment</li> <li>c) Act or omission of the Requesting Licensee</li> <li>d) Planned maintenance</li> <li>e) Permitted suspension by MPT of the Service</li> </ul>

#### 6.2 Service Level Target

MPT shall target Call Availability Service Level for Fixed Voice Termination Service according to the following table. Call Availability Service Level Targets shall reflect QoS regulation as directed by the PTD.

Applicable service level	From date of this RIO Agreement until the end of one year after the date of this RIO Agreement (Service Level Year 1)	For one year from end of Service Level Year 1 (Service Level Year 2)	For one year from the end of Service Level Year 2
<b>Call Availability</b>	80%	80%	85%



## Reference Interconnection Offer

### **6.3 Rebate for Service Level Failure**

Where MPT fails to achieve the Service Levels specified above in any month of the term, the Requesting Licensee shall be entitled to a refund of 50,000,000 MMK of the applicable fee in this month.



## Reference Interconnection Offer

### **7. ANNEX – CALL TYPE REQUEST FORM**

The form below is to be modified for use between MPT and Requesting Licensee

#### **1. GENERAL**

##### **1.1 Call Type Name and Description**

*The Requesting Licensee is to provide a general description of Call Type.*

##### **1.2 Date to be Introduced (Proposal)**

*The Requesting Licensee is to indicate the preferred implementation date for access to be available.*

#### **2. CALL ORIGINS**

*The Requesting Licensee is to indicate which Call origins (e.g. types of Calling subscribers) from its Network and which Call Type (e.g. Requesting Licensee operator Calls; Requesting Licensee PSTN/ISDN Calls).*

#### **3. NETWORK CONFIGURATION**

##### **3.1 Network Configuration/Routing Information**

*The Requesting Licensee is to indicate the Network configuration (with a diagram) through which the Call Type is to be conveyed.*

##### **3.2 Trunk Group (Circuit Assignment)**

*The Requesting Licensee is to indicate how traffic to the Call Type will be routed, as well as which Trunk Groups are to be used at the IGSs and SGSSs.*

##### **3.3 Other Engineering Requirements**

*The Requesting Licensee may list down other requirements required for the Call Type, such as routing of traffic to mass Calls on choked circuits.*

#### **4. SIGNALING**

*The Requesting Licensee is to provide details on the signaling requirements upon which Call Type is to be delivered in line with the conditions of the ROI. Attachment or reference to the relevant ITU-T Recommendations is required.*

#### **5. TESTING**

*Testing requirements are to be defined in line with the ROI.*

#### **6. BILLING AND CHARGING REQUIREMENT**

Billing and charging requirements are to be defined in line with the ROI;

##### **6.1 Customer Billing**

*The Requesting Licensee is to specify which Party is to bill the customer and how settlement is to occur.*

##### **6.2 Operator Billing**

*The Requesting Licensee is to indicate how inter-operator Billing and settlement is to occur.*



## Reference Interconnection Offer

### **8. OTHER REQUIREMENTS**

*The Requesting Licensee may state requests for any other requirements for Call Type to be delivered.*





## Reference Interconnection Offer