IDA ANNOTATION – 13 DECEMBER 2000

SINGTEL RESPONSE – 11 JANUARY 2001

# **SCHEDULE 2B**

# CALL TERMINATION SERVICE

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# **SCHEDULE 2B**

## **CALL TERMINATION SERVICE**

## **CLAUSE 1 – MODIFICATION REQUIRED**

#### 1. GENERAL

## CLAUSE 1.1 – MODIFICATION REQUIRED

1.1 <u>The SupplierSingTel</u> will use its reasonable endeavours to supply the Call Termination Service to the <u>Supplier'sSingTel</u> Network in accordance with <u>clause 11.1 of the main</u> <u>body of the RIO Agreement this Schedule</u> in respect of the Call Types for which the process in clause <u>2</u><del>3</del> has been followed <u>and</u>, in the case of SingTel as the Acquirer, in respect of the Call Types specified in Annex 2B-4 (Terminating Interconnected Calls).

Sub-section 5.3.2 of the Code makes clear that the RIO must contain a binding offer – including performance standards and remedies for material non-performance. SingTel cannot merely commit to "use its reasonable endeavours" to fulfil its obligations. The quoted language should be deleted.

SingTel comments : Agreed, subject to same comments in relation to Schedule 2A.

## CLAUSE 1.2 – CONDITIONAL APPROVAL

1.2 For the avoidance of doubt the process in clause 2 must be initiated by the <u>AcquirerRequesting Licensee</u> if it wishes to acquire the Call Termination Service in respect of Calls from <u>Requesting LicenseeAcquirer</u> origins not previously covered by a request under clause 2 or, in the case of SingTel as the Acquirer, in respect of the Call Types specified in Annex 2B-4.

# CLAUSE 1.3 – CONDITIONAL APPROVAL

1.3 Notwithstanding the Interconnection of the SingTel Network and the Requesting Licensee's Network, <u>the SupplierSingTel</u> shall have no obligation to provide the Call Termination <u>Service in respect of Calls of any type other than Terminating Interconnected Calls.</u>

## CLAUSE 1.4 – CONDITIONAL APPROVAL

1.4Service in respect of Calls of any type other than Terminating Interconnected Calls.

1.4 <u>The SupplierSingTel</u> will only be required to provide the Call Termination Service to the <u>AcquirerRequesting Licensee</u> to the extent that the <u>AcquirerRequesting Licensee</u> has complied with Schedule 1 and this Schedule 2B.

## **CLAUSE 2 – MODIFICATION REQUIRED**

As discussed in Paragraph 7 of Schedule A, SingTel may only require a Requesting Licensee to provide a forecast in connection with required Interconnection Capacity. Unless SingTel can provide an adequate justification for requiring Network Capacity Forecasting, it must delete Clause 2.

SingTel comments : Agreed.

#### 2.FORECASTS

- 2.1This section applies to Forecasts to be provided by the Requesting Licensee to SingTel in relation to Network Capacity, if the Requesting Licensee reaches a minimum Interconnection Capacity of sixty three (63) E1s for Interconnection with the SingTel Network.
- 2.2The Requesting Licensee shall provide to SingTel the Forecasts for Network Capacity required for the provision of the Call Termination Service on or near 1 March and 1 September of each year and in the formats in Annex 2B 4.
- 2.3The Forecasts shall be for periods commencing six (6) months from 1 April and 1 October (Forecast Date) respectively, and be for a period of thirty six (36) months, in intervals of six (6) months for the first twelve (12) months, and yearly thereafter.
- 2.4Subject to clause 20 of the main body of this RIO Agreement, SingTel will respond to a Forecast within fifteen (15) Business Days, or any other period as may be agreed, of receipt. The response shall be either:
  - (i)an acknowledgment that SingTel is able to provide the Forecasted Network Capacity in the first six (6) month period by a particular date (Forecast Delivery Date);
  - (ii)an acknowledgment that SingTel is able to provide the Forecasted Network Capacity in the first six (6) month period, but not be able to provide those quantities in accordance with the Forecast timeframes; or

(iii)an advice that SingTel is unable to provide the Forecasted Network Capacity in the first six (6) month period as procurement is required.

- 2.5Where procurement is required in order to meet the Forecast, and SingTel advises the Requesting Licensee pursuant to clause 2.4, SingTel shall seek confirmation of the Forecast. As a general guide, the provisioning time is twelve (12) months from the Forecast Date.
- 2.6If the Requesting Licensee seeks Network Capacity at a level other than the Forecast level or on a date other than the agreed Forecast Delivery Date, it may make a request to SingTel to study the feasibility of such a request. SingTel shall undertake a feasibility study, and the Requesting Licensee shall pay a fee to SingTel for the conduct of the study in response to the request.
- 2.7SingTel is under no obligation to provide Network Capacity other than in accordance with the accepted Forecast Capacity requirements and the Forecast Delivery Dates.
- 2.8Clauses 2.6 and 2.7 are not intended to create a process in substitution for the normal Forecasting process.
- 2.9The Requesting Licensee agrees that:
- (a)the first six (6) months of each Forecast given by it is a commitment for the full quantity of Network Capacity which SingTel will necessarily supply or install in order to meet that Forecast;
- (b)it will pay all Charges calculated in accordance with Schedule 9 relating to its failure to utilise the full quantity of Network Capacity in relation to a Forecast; and

(c)there shall be no variation in the Forecasts as provided to SingTel.

2.10If, following acceptance of a Forecast, SingTel is unable to provide the Network Capacity or provide the Network Capacity by the Forecast Delivery Date, in whole or part, it must advise the Requesting Licensee promptly and both Parties must, where practicable, negotiate a new delivery timetable. To assist in this negotiation, SingTel may offer alternatives where available.

#### 2.11Delivery of Forecast Capacity

2.11.1The Parties shall use their reasonable endeavours to ensure that its Network Facilities on its side of the relevant POI are provisioned on the Forecast Delivery Date (or as otherwise agreed) and maintained in accordance with the Forecasts.

#### 2.12Recovery for Over Forecasting

- 2.12.11f the Actual Usage by the Requesting Licensee of the Network Capacity is greater than or equal to ninety (90) percent of its Forecast, no over forecasting Charges shall apply.
- 2.12.2If the Actual Usage by the Requesting Licensee of the Network Capacity is less than ninety (90) percent of its Forecast, the Requesting Licensee shall pay the amount calculated in accordance with Schedule 9 until such time as Actual Usage reaches ninety (90) percent.

2.12.3Where a dispute arises in respect to the Actual Usage under this clause 2.12, the matter will be referred for resolution in accordance with Schedule 11.

## **CLAUSE 3 – MODIFICATION REQUIRED**

Sub-section 5.3.2 of the Code provides that the RIO must contain a "comprehensive and complete" statement of the proposed agreement between the Licensees such that, if the Requesting Licensee accepts the RIO, "further discussion will be limited to implementing the accepted prices, terms and condition". Sub-section 5.3.2 further provides that "[s]uch discussions should generally last no more than 30 days". Clause 3 is inconsistent with this requirement, because it would result in unnecessary delays in implementing the RIO Agreement. SingTel must revise Clause 3 as follows:

(a) SingTel must specify an initial list of Call Types for which it will provide Call Termination Service;

(b) SingTel must provide technical specifications that the Requesting Licensee must satisfy if it wishes to obtain Call Termination Service in connection with a specified Call Type;

(c) SingTel must specify procedures for the Requesting Licensee, at the time it accepts the RIO, to request Call Termination Service in connection with additional Call Types;

(d) SingTel must commit to completing any discussion regarding the additional Call Types within 30 days of the signing of the RIO Agreement – regardless of whether the provisioning of the Call Type requires work in addition to or instead of Network Conditioning.

#### SingTel comments : See comments in relation to Schedule 2A.

#### 3.2. CALL TYPES

- <u>3.12.1</u> This clause <u>2</u>3 applies where the <u>AcquirerRequesting Licensee</u> wishes to extend the use of the Call Termination Service provided by <u>the SupplierSingTel</u> to a Call Type in respect of which the process <u>in this clause 2</u> has not already been undertaken <u>or</u>, in the case of <u>SingTel</u> as the Acquirer, has not been specified in Annex 2B-4.
- <u>3.22.2</u> The <u>AcquirerRequesting Licensee</u> shall notify <u>the SupplierSingTel</u> by means of the request form set out in Annex 2B-1 of its request to extend the use of the Call Termination Service to a particular Call Type.
- <u>3.32.3 The SupplierSingTel</u> shall acknowledge, in writing, receipt of the <u>Acquirer'sRequesting</u> <u>Licensee's</u> request under clause 2.2 within five (5) Business Days of its receipt.
- <u>3.42.4</u> Following receipt of a request form under clause 2.2, <u>the SupplierSingTel</u> shall assess that request and notify the <u>AcquirerRequesting Licensee</u> that either:
- (a) the implementation of the request in respect of the requested Call Type involves only Network Conditioning in <u>the Supplier's SingTel's</u> Network, in which case the Negotiation Period shall be thirty (30) Business Days; or
- (b) the implementation of the request in respect of the requested Call Type involves work in addition to or as an alternative to Network Conditioning in the <u>Supplier'sSingTel</u> Network, in which case the Negotiation Period shall be ninety (90) Business Days.
- <u>3.52.5</u> The Parties shall forthwith negotiate in good faith the requirements, implementation charges and timetable for extending the use of the Call Termination Service provided by <u>the SupplierSingTel</u> to the requested Call Type for the Negotiation Period notified in clause 2.4, failing which either Party may commence the Dispute Resolution Procedure in accordance with Schedule 11.
- <u>3.62.6</u> Where the Parties have reached an agreement in accordance with clause 2.5 above, <u>the</u> <u>SupplierSingTel</u> will commence implementation in accordance with the agreed timetable.
- <u>3.72.7</u> Nothing in this clause 2 requires <u>the SupplierSingTel</u> to perform any changes in its Network or to commence the supply of Call Termination Services for a Call Type until the Parties have completed the Change Process for that Call Type and all Network Conditioning Charges have been agreed by the <u>AcquirerRequesting Licensee</u>.

2.8 The Acquirer may, at any time, request the Supplier to cease supplying the Call Termination Service in respect of a Call Type and the Supplier shall cease supplying the Call Termination Service in respect of that Call Type as soon as practicable or such later time specified by the Acquirer.

# CLAUSE 4 – MODIFICATION REQUIRED

Clause 4 should apply to numbers used in connection with both fixed and mobile services. SingTel should replace the reference to "Geographic Numbers" with a technology neutral term, such as "Number Level".

## SingTel comments : Agreed.

## 4.3. GEOGRAPHIC NUMBER LEVEL ACTIVATION

- <u>4.13.1</u> Each Party shall provide to the other Party with at least two (2) weeks notice prior to any request to open new Geographic Numbers Levels.
- <u>4.23.2</u> The process for the opening of Geographic Number <u>Levels</u> shall be in accordance with the flowchart shown in Annex 2B-5.

# CLAUSE 5 – MODIFICATION REQUIRED

## 5.4. CHARGING PRINCIPLES

# CLAUSE 5.1 – CONDITIONAL APPROVAL

## 1.14.1 Termination Charge

5.1.14.1.1 For any Terminating Interconnected Calls -terminating into the <u>Supplier's</u>SingTel Network, <u>the SupplierSingTel</u> will collect the Termination Charge from the <u>AcquirerRequesting Licensee</u>. For the avoidance of doubt, the Call Termination Service is not provided for termination of Calls to Third Party Networks.

# CLAUSE 5.2 – CONDITIONAL APPROVAL

<u>1.24.2</u> Each Party shall, for those Terminating Interconnected Calls for which it is providing (as the case may be) or receiving a Call Termination Service, collect a Call record for each individual Terminating Interconnected Call whether in bulk or on a CDR basis and process such records in accordance with clause 5.

# CLAUSE 5.3 - CONDITIONAL APPROVAL

<u>1.34.3</u> The Call records collected by <u>SingTel-the Supplier</u> in accordance with this clause <u>45</u> shall be the source of the data used by <u>the SupplierSingTel</u> to invoice for the Call Termination Service it provides under this RIO Agreement.

# CLAUSE 5.4 - CONDITIONAL APPROVAL

<u>1.44.4</u> The calculation of Charges for the Call Termination Service will be based on the number of Call <u>D</u><del>d</del>urations recorded on the basis of the applicable Billing Unit, and in accordance with the applicable rates set out in Schedule 9.

# CLAUSE 5.5 – MODIFICATION REQUIRED

Settlement of charges on a per-minute block basis is not efficient, especially in the case of unsuccessful attempts. Unless the parties agree otherwise, SingTel should impose such charges on the lowest technically feasible time increment, preferably on a per-second basis.

SingTel comments : Agreed, subject to the same comments made in relation to Schedule 2A.

4.5 Calls shall be Charged for the duration of use of the circuit for the Call. Duration of use of a circuit shall start at the time the circuit used for the Call is seized and end at the time the circuit is released. All Calls, regardless of whether they are successful or unsuccessful, are Chargeable. The Charges shall be accounted in per <u>secondminute</u> block.

# CLAUSE 5.6 – CONDITIONAL APPROVAL

4.6 The Parties shall agree that if a Chargeable Call Duration extends over two or more Charge rate periods, the Call shall be recorded as a single Call in the Charge rate period applying at the commencement of the Call and the Chargeable Call Duration will be determined by adopting the applicable rate set out in Schedule 9 for the applicable Charging period in which the Call is answered.

# CLAUSE 5.7 – CONDITIONAL APPROVAL

4.7 The Parties shall agree that for Calls that cross over to the next Billing Period, the Calls shall be billed in the Billing Period in which those Calls end.

# CLAUSE 6 – MODIFICATION REQUIRED

SingTel must modify this Clause 6 to reflect the fact that the Requesting Licensee will also be providing Call Termination Service to SingTel. SingTel cannot merely commit to "use its reasonable endeavours" to fulfil its obligations. The quoted language should be deleted.

SingTel comments : Agreed to first point. Not agreed to second point. This clause refers to Billing Verification Information, not the actual bill. Reasonable endeavours is the relevant standard for providing billing information, as practice would evidence.

#### 6.5. BILLING VERIFICATION INFORMATION

- <u>6.15.1 The SupplierSingTel</u> shall use its reasonable endeavours to provide Billing Verification Information for the Call Termination Service in accordance with the format set out in Annex 2B-2 within fourteen (14) Calendar Days from the end of each Billing Period, together with the invoice for the Call Termination Service to be issued in accordance with Schedule 9.
- <u>6.25.2</u> In addition to the obligation in clause 5.1 when there is a dispute in relation to invoices issued for the Call Termination Service, the parties shall exchange the Detailed Billing Verification Information set out in Annex 2B-3.
- <u>6.35.3</u> In the event that <u>the SupplierSingTel</u> cannot record Billing Verification Information for the Call Termination Service due to a system error or other fault, upon the request of <u>the SupplierSingTel</u>, the <u>AcquirerRequesting Licensee</u> will provide Billing Verification Information to <u>the SupplierSingTel</u>.
- <u>6.45.4</u> Where the Billing Verification Information collected by the <u>AcquirerRequesting Licensee</u> is not available under clause 5.3, the Parties will negotiate in good faith such alternative Billing arrangements, such as an estimation based on the previous three (3) months Billing Verification Information, appropriate in the circumstances.

# ANNEX 2B-1 - MODIFICATION REQUIRED

SingTel must modify this Annex 2B-1 to make clear that this Annex applies only to requests for new Call Types (i.e., Call Types other than those to be specified in the RIO).

## SingTel comments : Agreed.

ANNEX 2B-1 : REQUEST FORM FOR INTRODUCING <u>NEW</u>CALL TYPE (CALL TERMINATION SERVICE)

CLAUSE 1 - CONDITIONAL APPROVAL

## 1. GENERAL

#### 1.1 Call Type Name and Description

The <u>AcquirerRequesting Licensee</u> is to provide a general description of Call Type.

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

The <u>Acquirer</u>Requesting Licensee is to indicate the preferred implementation date for access to be available.

## CLAUSE 2 - CONDITIONAL APPROVAL

## 2. CALL ORIGINS

The <u>Acquirer</u>Requesting Licensee is to indicate which Call origins (eg types of Calling subscribers) from its Network the Call Type is required from and which origins from its Network the Call Type is not required from (e.g. <u>Requesting LicenseeAcquirer</u> international incoming Calls, <u>AcquirerRequesting Licensee</u> operator Calls; <u>AcquirerRequesting Licensee</u> PSTN/ISDN Calls).

## CLAUSE 3 – CONDITIONAL APPROVAL

#### 3. NETWORK CONFIGURATION

#### 3.1 Network Configuration/Routing Information

*The <u>Acquirer</u>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 <u>Acquirer</u>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.

## 3.3 Other Engineering Requirements

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

# CLAUSE 4 – CONDITIONAL APPROVAL

## 4. SIGNALLING

The <u>AcquirerRequesting Licensee</u> is to provide details on the signalling requirements upon which Call Type is to be delivered. Attachment or reference to the relevant ITU-T Recommendations is required. If new Call flow signalling sequence is required to support the New Call, this is also to be captured in this section.

# CLAUSE 5 - CONDITIONAL APPROVAL

## 5. TESTING

The <u>Acquirer</u>Requesting Licensee is to specify the testing requirements, such as testing configuration, test numbers, etc. The preferred testing timeframe is also to be indicated.

## 6. BILLING AND CHARGING REQUIREMENT

# CLAUSE 6.1 – MODIFICATION REQUIRED

Clause 6.1 requires the Requesting Licensee to provide information regarding its commercial relationship with its End User customers. This is unnecessary, burdensome, and intrusive. SingTel must revise this Clause 6.1 to request only information regarding which Licensee is to bill the End User.

SingTel comments : Agreed, subject to the same conditions discussed in relation to Schedule 2A above.

## 6.1 Customer Billing

The <u>AcquirerRequesting Licensee</u> is to specify <u>which Party is to bill</u> how the customer Billing and <u>how</u> settlement is to occur.

#### 6.2 Operator Billing

*The <u>Acquirer</u>Requesting Licensee* is to indicate how inter-operator Billing and settlement is to occur.

# 7. BILLING INTEGRATION

Both Parties are to look at the downstream billing requirements to cater for the settlement between the Parties. Both Parties have to ensure that the agreed arrangements for Customer and operator Billing and settlement can be implemented and establish timetables for their implementation.

## 8. OTHER REQUIREMENTS

*The <u>AcquirerRequesting Licensee</u> may specify any other requirements for Call Type to be delivered.* 

# ANNEX 2B-2 – MODIFICATION REQUIRED

SingTel must modify this Annex 2B-2 to reflect the fact that the Requesting Licensee also will provide Call Termination Service to SingTel.

SingTel comments : Agreed.

#### ANNEX 2B-2 : BILLING VERIFICATION INFORMATION FOR CALL TERMINATION SERVICE

#### **Billing Information for the Supplier**

Call Description	Time Zone	Call Duration (in minutes)	Call Charges (in S\$)
Originating from Requesting Licensee's <u>the</u> <u>Acquirer's</u> Network terminating to - <u>the</u>	Peak Off Peak	5400	\$xxx.xx
Supplier'sSingTel's Network (Termination Charge)			
Total		хххх	\$xxx.xx

# ANNEX 2B-3 – MODIFICATION REQUIRED

SingTel must modify this Annex 2B-3 to reflect the fact that the Requesting Licensee also will provide Call Termination Service to SingTel.

SingTel comments : Agreed.

## ANNEX 2B-3: DETAILED BILLING VERIFICATION INFORMATION

1. Billing Verification for SupplieringTel IGS

				Originating From <u>Acquirer's</u> Requesting Licensee's Network		
				(Terminating to <u>the Supplier'sSingTel's</u> Network)		
				Termination Charge payable by <u>the</u> <u>Acquirer</u> Requesting Licensee		
S/N	ExchID	System	Time Zone	Attempts	Duration (in mins)	
1	IGS1	FBO001	Peak	442	4442	
			Off Peak	2334	23345	
2	IGS1	FBO002	Peak	442	4442	
			Off Peak	2334	23345	
3	IGS2	FBO001	Peak	442	4442	
			Off Peak	2334	23345	
4	IGS2	FBO002	Peak	442	4442	
			Off Peak	2334	23345	
5	IGS3	FBO001	Peak	442	4442	
			Off Peak	2334	23345	
6	IGS3	FBO002	Peak	442	4442	
			Off Peak	2334	23345	
7	IGS4	FBO001	Peak	442	4442	
			Off Peak	2334	23345	
8	IGS4	FBO002	Peak	442	4442	

	Off Peak	2334	23345
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# 2. Billing Verification for <u>SupplierSingTel</u> SGS

				Originating From <u>the Acquirer's</u> Requesting Licensee's Network (Terminating to <u>the Supplier's</u> SingTel's Network)		
				Termination Charge payable by <u>the</u>		
S/N	ExchID	System	Time Zone	Attempts	Duration (in mins)	
1	SGS1	SBO001	Peak	444	4442	
			Off Peak	2334	23345	
2	SGS1	SBO002	Peak	444	4442	
			Off Peak	2334	23345	
3	SGS2	SBO001	Peak	444	4442	
			Off Peak	2334	23345	
4	SGS2	SBO002	Peak	444	4442	
			Off Peak	2334	23345	

# ANNEX 2B-4 – MODIFICATION REQUIRED

## For the reasons discussed in connection with Clause 2, this Annex 2B-4 should be deleted.

#### SingTel comments : Agreed.

#### ANNEX 2B-4 : FORECASTING OF NETWORK CAPACITY

Traffic Forecasts shall be accordance with clause 2 and in respect of each POI:

Network Capacity Forecast for the Interconnect Link between \_\_\_\_\_ and \_

Forecasting Period: From \_\_\_\_\_ to \_\_\_\_\_

(i) Busy Hour Traffic Forecast for Call Origination/Termination/Transit Service (according to Erlang B traffic table):

	<del>Year 1</del>		Year 2	Year 3
	<del>First 6</del> <del>months</del>	Subsequent 6 months		
Busy Hour Traffic for Call Origination Services				
Busy Hour Traffic for Call Termination Services				
Busy Hour Traffic for Call Transit Services				

#### (ii) Volume of Call Origination/Termination/Transit Services (in Call attempts and Call-minutes):

	Year 1		Year 2	Year 3
	<del>First 6</del> <del>months</del>	Subsequent 6 months		
Volume of Call Origination Services (in Call attempts)				
Volume of Call Origination Services (in Call minutes)				
Volume of Call Termination Services (in Call attempts)				

Volume of Call Termination Services (in Call minutes)		
Volume of Call Transit Services (in Call attempts)		
Volume of Call Transit Services (in Call minutes)		

#### ANNEX 2A-4 LIST OF CALL TYPES FOR CALL TERMINATION SERVICE

SingTel International Incoming Call Service

SingTel Local Call Termination Service

# ANNEX 2B-5 – MODIFICATION REQUIRED

SingTel must modify this Annex 2B-5 to apply to numbers used in connection with both fixed and mobile services.

**SingTel comments : Agreed.** 

ANNEX 2B-5 : PROCEDURE FOR GEOGRAPHIC-NUMBER LEVEL ACTIVATION

