

IDA ANNOTATION – 13 DECEMBER 2000

SINGTEL RESPONSE – 11 JANUARY 2001

SCHEDULE 2

ORIGINATION, TERMINATION AND TRANSIT (O/T/T)

SCHEDULE 2

ORIGINATION, TERMINATION AND TRANSIT (O/T/T)

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SCHEDULE 2 - GENERAL

ORIGINATION, TERMINATION AND TRANSIT (O/T/T)

1. This Schedule sets out the terms and conditions under which ~~SingTel~~ the Parties will provide the Call Origination Service, the Call Termination Service and the Call Transit Service to ~~the Requesting Licensee~~ each other.

2. In this Schedule, the Party supplying the Call Origination Service, the Call Termination Service or the Call Transit Service shall be known as the Supplier and the Party acquiring the service shall be known as the Acquirer.

- ~~2.3.~~ This Schedule is comprised of the following sections:

Schedule 2A - Call Origination Service

Schedule 2B - Call Termination Service

Schedule 2C - Call Transit Service

GENERAL COMMENT:

SingTel must revise Schedule 2 to reflect the fact that it will not only be providing O/T/T services to the Requesting Licensee, it will be acquiring O/T/T services from the Requesting Licensee.

SingTel comments : Agreed. Refer also to comments in main agreement.

SCHEDULE 2A
CALL ORIGINATION SERVICE

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SCHEDULE 2A

CALL ORIGINATION SERVICE

CLAUSE 1 – MODIFICATION REQUIRED

1. GENERAL

CLAUSE 1.1 – MODIFICATION REQUIRED

1.1 ~~SingTel~~ The Supplier will ~~use its reasonable endeavours to~~ supply the Call Origination Service from ~~the SingTel~~ the Supplier's Network in accordance with clause 11.1 of the main body of the RIO Agreement~~this Schedule~~ in respect of the Call Types for which the process in clause 3 has been followed and, in the case of SingTel as the Acquirer, in respect of the Call Types specified in Annex 2A-4 (Originating 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 non-performance. SingTel cannot merely commit to “use its reasonable endeavours” to fulfil its obligations. The quoted language should be deleted.

SingTel comments : Agreed to remove reasonable endeavours. The performance standard will be measured against the QOS levels referred to in clause 11.1 of the main body of the RIO agreement which require non-discrimination.

CLAUSE 1.2 – CONDITIONAL APPROVAL

1.2 Notwithstanding the Interconnection of the SingTel Network and the Requesting Licensee's Network, ~~SingTel~~ the Supplier shall have no obligation to provide the Call Origination Service in respect of Calls of any type other than Originating Interconnected Calls.

CLAUSE 1.3 – CONDITIONAL APPROVAL

1.3 ~~SingTel~~ The Supplier will only be required to provide the Call Origination Service to the ~~Requesting Licensee~~ Acquirer to the extent that ~~the Requesting Licensee~~ the Acquirer has complied with Schedule 1 and this Schedule 2A.

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, SingTel must delete Clause 2.

SingTel comments : Agreed.

2.FORECASTS

~~2.1 This 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.~~

~~2.2 The Requesting Licensee shall provide to SingTel the Forecasts for Network Capacity required for the provision of the Call Origination Service on or near 1 March and 1 September of each year and in the formats in Annex 2A 4.~~

~~2.3 The 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.~~

~~2.4 Subject 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.~~

~~2.5 Where 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.~~

~~2.6 If 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 in accordance with the Charges set out in Schedule 9.

~~2.7 SingTel is under no obligation to provide Network Capacity other than in accordance with the accepted Forecast Capacity requirements and the Forecast Delivery Dates.~~

~~2.8 Paragraphs 2.6 and 2.7 are not intended to create a process in substitution for the normal Forecasting process.~~

~~2.9 The 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.~~

~~2.10 If, 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.~~

2.11 Delivery of Forecast Capacity

~~2.11.1 The 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.~~

2.12 Recovery for Over Forecasting

~~2.12.1 If 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.~~

~~2.12.2 If 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.~~

~~2.12.3 Where 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 – CONDITIONAL APPROVAL

3.2. CUSTOMER REGISTRATION, BILLING & DEBT

~~3.12.1 The Requesting Licensee~~The Acquirer is responsible for tariffing, Customer billing, collection and bad debts in respect of the provision of telecommunications services to its Customers by the ~~Requesting Licensee~~Acquirer using the Call Origination Service.

CLAUSE 4 – 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 conditions”. Sub-section 5.3.2 further provides that “[s]uch discussions should generally last no more than 30 days”. Clause 4 is inconsistent with this requirement, because it would result in unnecessary delays in implementing the RIO Agreement. SingTel must revise Clause 4 as follows:

- (a) SingTel must specify an initial list of Call Types for which it will provide Call Origination Service;*
- (b) SingTel must provide technical specifications that the Requesting Licensee must satisfy if it wishes to obtain Call Origination 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 Origination Service in connection with additional Call Types; and*
- (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 : SingTel is able to provide the list of call types in which it will require Call Origination Service as well as the technical specifications that the Requesting Licensee must satisfy. However, it is for the Requesting Licensee to specify what Call Types the Requesting Licensee would require SingTel to provide the Call Origination Service and the technical requirements. SingTel cannot envisage nor anticipate what the Requesting Licensee would require, and would certainly differ from service to service.

SingTel comments : With regards to the procedures for the Requesting Licensee to request the Call Origination Service in connection with the additional Call Types, this is already covered in the current process as contained in the proposed RIO. On the discussion regarding the additional Call Types, SingTel cannot guarantee that the discussions will be completed within 30 days as the discussions are a two-way process and also dependent on the Requesting Licensee. Further, the additional work may involve software modifications or modifications in the network to cater for the Acquirer's requirements and it will not be technically possible to complete such works within 30 days.

4.3. CALL TYPES

4.13.1 This clause 3 applies where ~~the Requesting Licensee~~ the Acquirer wishes to extend the use of the Call Origination Service provided by ~~SingTel~~ the Supplier to a Call Type in respect of which the process in this clause 3 has not already been undertaken or, in the case of SingTel as the Acquirer, has not been specified in Annex 2A-4.

4.23.2 The ~~Requesting Licensee~~ Acquirer shall notify ~~SingTel~~ the Supplier by means of the request form set out in Annex 2A-1 of its request to extend the use of the Call Origination Service to a particular Call Type.

4.33.3 ~~SingTel~~ The Supplier shall acknowledge, in writing, receipt of the ~~Requesting Licensee~~ Acquirer's request under clause 3.2 within five (5) Business Days of its receipt.

4.43.4 Following receipt of a request form under clause 3.2, ~~SingTel~~ the Supplier shall assess that request and notify the ~~Requesting Licensee~~ Acquirer that either:

- (a) the implementation of the request in respect of the requested Call Type involves only Network Conditioning in ~~SingTel's~~ the Supplier's 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 ~~SingTel~~ Supplier's Network, in which case the Negotiation Period shall be ninety (90) Business Days.

4.53.5 The Parties shall forthwith negotiate in good faith the requirements, implementation charges and timetable for extending the use of the Call Origination Service provided by ~~SingTel~~ the Supplier to the requested Call Type for the Negotiation Period notified in clause 3.4, failing which either Party may commence the Dispute Resolution Procedure in accordance with Schedule 11.

4.63.6 Where the Parties have reached an agreement in accordance with clause 3.5 above, ~~SingTel~~ the Supplier will commence implementation in accordance with the agreed timetable.

4.73.7 Nothing in this clause 3 requires ~~SingTel~~ the Supplier to perform any changes in its Network or to commence the supply of Call Origination 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 ~~Requesting Licensee~~ Acquirer.

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

CLAUSE 5 – MODIFICATION REQUIRED

5.4. CHARGING PRINCIPLES

CLAUSE 5.1 – MODIFICATION REQUIRED

5.14.1 Origination Charge

CLAUSE 5.1.1 – MODIFICATION REQUIRED

*SingTel must modify this Clause 5.1.1 to reflect the fact that the Requesting Licensee will also be providing Call Origination Service to SingTel. In addition, consistent with Appendix One, Sub-section 3.2.1 of the Code, SingTel should clearly state that a Licensee will assess an Origination Charge **only** when “the terminating Licensee, or a Services-based Licensee connected to the terminating Licensee, bills the End User directly”.*

SingTel comments : SingTel agrees to modify clause 5.1.1 to reflect that the Requesting Licensee will also be providing Call Origination Service to SingTel. However, it is incorrect to state that a Licensee will assess an Origination Charge only when the terminating Licensee or a Services-based Licensee connected to the terminating Licensee’s network bills the End User directly as the Originating Call Type is to also cater for toll-free services in

which the End User is not being billed. Where the service is toll-free, the Supplier should still be entitled to recover the Origination Charge. Hence, the Supplier of the Call Origination Service will collect regardless of whether Terminating Licensee bills the End User.

~~5.1.14.1.1~~ For any Originating Interconnected Calls that originate from the ~~SingTel~~ Supplier's Network, ~~SingTel~~ the Supplier will collect the Origination Charge from the ~~Requesting Licensee~~ Acquirer.

CLAUSE 5.1.2 – CONDITIONAL APPROVAL

~~5.1.24.1.2~~ For any Call Origination Service that transits through another Licensee's Network, ~~SingTel~~ the Supplier will collect the Origination Charge from the ~~Requesting Licensee~~ Acquirer and recover any Transit Charge from the ~~Requesting Licensee~~ Acquirer for such Charges that ~~SingTel~~ the Supplier pays to the another Licensee's Network who provides a ~~c~~Call ~~t~~Transit ~~s~~Service.

CLAUSE 5.2 – CONDITIONAL APPROVAL

~~5.24.2~~ Each Party shall, for those Originating Interconnected Calls for which it is providing or receiving (as the case may be) a Call Origination Service, collect a ~~C~~call record for each individual Originating Interconnected Call whether in bulk or on a CDR basis and process such records in accordance with clause 5.

CLAUSE 5.3 – CONDITIONAL APPROVAL

~~5.34.3~~ The ~~C~~call records collected by ~~SingTel~~ the Supplier in accordance with this clause 4 shall be the source of the data used by ~~SingTel~~ the Supplier to invoice for the Call Origination Service it provides under this RIO Agreement.

CLAUSE 5.4 – CONDITIONAL APPROVAL

~~5.44.4~~ The calculation of Charges for Call Origination Service will be based on the number of Call ~~D~~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 : Agree to per second. iDA will need to ensure that all operators can do this. The charging regime needs to be consistent for all, otherwise it will become too complex for the charging systems.

5.54.5 Call shall be charged based on the rates 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 ~~minute~~-second block.

CLAUSE 5.6 – CONDITIONAL APPROVAL

5.64.6 The Parties shall agree that if a Chargeable Call Duration extends over two (2) 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

5.74.7 The Parties 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 Origination Service to SingTel.

SingTel comments : Agreed.

6.5. BILLING VERIFICATION INFORMATION

CLAUSE 6.1 – MODIFICATION REQUIRED

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 : Not agreed. This clause refers to BVI, not the actual bill. Reasonable endeavours is a standard and it has been established that other operators such as StarHub and Singapore Power can only meet this standard as well.

~~6.15.1~~ ~~SingTel~~ The Supplier shall use its reasonable endeavours to provide Billing Verification Information for the Call Origination Service in accordance with the format set out in Annex 2A-2 within fourteen (14) Calendar Days from the end of each Billing Period, together with the invoice for the Call Origination Service to be issued in accordance with Schedule 9.

CLAUSE 6.2 – CONDITIONAL APPROVAL

~~6.25.2~~ In addition to the obligation in clause 5.1 when there is a dispute in relation to invoices issued for the Call Origination Service, the Parties shall exchange the Detailed Billing Verification Information set out in Annex 2A-3.

CLAUSE 6.3 – CONDITIONAL APPROVAL

~~6.35.3~~ In the event that ~~SingTel~~ the Supplier cannot record Billing Verification Information for the Call Origination Service due to a system error or other fault, upon the request of ~~SingTel~~ the Supplier, the ~~Requesting Licensee Acquirer~~ will provide Billing Verification Information to ~~SingTel~~ the Supplier.

CLAUSE 6.4 – CONDITIONAL APPROVAL

~~6.45.4~~ Where the Billing Verification Information collected by the ~~Requesting Licensee Acquirer~~ is not available under clause 5.3, the Parties will negotiate in good faith alternative Billing arrangements, such as an estimation based on the previous three (3) months Billing Verification Information that are appropriate in the circumstances.

ANNEX 2A-1 – MODIFICATION REQUIRED

SingTel must modify this Annex to make clear that it 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 2A-1 : REQUEST FORM FOR INTRODUCING NEW CALL TYPE (CALL ORIGINATION SERVICE)

CLAUSE 1 – CONDITIONAL APPROVAL

1. GENERAL

1.1 Call Type Name and Description

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

1.2 Date to be Introduced (Proposal)

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

CLAUSE 2 – CONDITIONAL APPROVAL

2. NUMBER RELATED INFORMATION

The ~~Acquirer~~~~Requesting~~ Licensee is to specify the service code or number range for the Call Type (e.g. 00x, 15xy) as well as the number length.

CLAUSE 3 – CONDITIONAL APPROVAL

3. NETWORK CONFIGURATION

3.1 Network Configuration/Routing Information

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

4.23.2 Trunk Group (Circuit Assignment)

The ~~Acquirer~~ ~~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 Interconnect Gateway Switches.

1.33.3 Other Engineering Requirements

The ~~Acquirer~~ ~~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 ~~Acquirer~~ ~~Requesting Licensee~~ 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 Call, this is also to be captured in this section.

CLAUSE 5 – CONDITIONAL APPROVAL

5. TESTING

The ~~Acquirer~~ ~~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 and burdensome. SingTel must revise this Clause 6.1 to request only information regarding which Licensee is to bill the End User.

SingTel comments : Agreed, although we note above that billing or non-billing arrangements are not determinative of when the Call Origination Service is provided.

6.1 Customer Billing

The ~~Acquirer~~ ~~Requesting Licensee~~ is to specify which Party is to bill ~~how~~ the Customer Billing and how settlement is to occur.

1.26.2 Operator Billing

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

CLAUSE 7 – CONDITIONAL APPROVAL

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.

CLAUSE 8 – CONDITIONAL APPROVAL

8. OTHER REQUIREMENTS

The ~~Acquirer~~~~Requesting Licensee~~ may specify any other requirements for Call Type to be delivered.

ANNEX 2A-1 – MODIFICATION REQUIRED

SingTel must insert the missing Annex 2A-1.

SingTel comments : Already included.

ANNEX 2A-2 – MODIFICATION REQUIRED

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

SingTel comments : Agreed.

ANNEX 2A-2 : BILLING VERIFICATION INFORMATION FOR CALL ORIGINATION SERVICE

Billing Information for SingTelBilling Information for the Supplier

Call Description	Time Zone	Call duration (in minutes)	Call charges (in S\$)
Originating from SingTel the Supplier's Network terminating to Requesting Licensee the Acquirer's Network (Origination Charge)	Peak	5400	\$xxx.xx
	Off Peak	2700	\$xxx.xx
Total		xxxx	\$xxx.xx

ANNEX 2A-3 – MODIFICATION REQUIRED

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

SingTel comments : Agreed.

ANNEX 2A-3 : DETAILED BILLING VERIFICATION INFORMATION

1. Billing Verification for SingTel-Supplier IGS

S/N	ExchID	System	Time Zone	Terminating to Requesting LicenseeAcquirer's Network	
				(Originating from SingTel-Supplier's Network)	
				Originating Charge payable by Requesting LicenseeAcquirer	
				Attempts	Duration (in mins)
1	IGS1	FBO001	Peak	444	4442
			Off Peak	2334	23345
2	IGS1	FBO002	Peak	444	4442
			Off Peak	2334	23345
3	IGS2	FBO001	Peak	444	4442
			Off Peak	2334	23345
4	IGS2	FBO002	Peak	444	4442
			Off Peak	2334	23345
5	IGS3	FBO001	Peak	444	4442
			Off Peak	2334	23345
6	IGS3	FBO002	Peak	444	4442
			Off Peak	2334	23345
7	IGS4	FBO001	Peak	444	4442
			Off Peak	2334	23345
8	IGS4	FBO002	Peak	444	4442

			Off Peak	2334	23345
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2. Billing Verification for ~~SingTel~~ Supplier SGS

S/N	ExchID	System	Time Zone	Terminating to Requesting Licensee <u>Acquirer's</u> Network	
				(Originating from SingTel <u>Supplier's</u> Network)	
				Originating Charge payable by Requesting Licensee <u>Acquirer</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 2A-4 – MODIFICATION REQUIRED

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

SingTel comments : Agreed.

~~ANNEX 2A-4 : FORECASTING OF NETWORK CAPACITY~~

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

Network Capacity Forecast for the Interconnection Link between _____ and _____				
Forecasting Period: From _____ to _____				
(i) Busy Hour Traffic Forecast for Call Origination/Termination/Transit Service (according to Erlang B traffic table):				
	Year 1		Year 2	Year 3
	First 6 months	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
	First 6 months	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 ORIGINATION SERVICE

SingTel International Direct Dial "001" Service

SingTel International Direct Dial "004" Service

SingTel International Direct Dial "011" Service

SingTel Standard Trunk Dial "020" Service

SingTel International Budget Call "013" Service

SingTel Phone to Phone IP "019" Service

SingTel Operator Assisted Call "104" Service

SingTel Maritime Radio "105" Service

SingTel International Toll Free "800" Service

SingTel Voice Mail "1383" Service.

SingTel Enhanced System "1305" Service

SingTel Police Enquiries "1600" Service

Postal Enquiry "1605" Service for SingPost

SingTel Business Telephone Enquiries and Applications "1606" Service

SingTel Telephone Fault Reporting "1608" Service.

SingTel Residential Telephone Enquiries and Applications "1609" Service

Customer Enquiry "1610" Service for SingNet

Customer Enquiry "1620" Service for SingTel Paging

Customer Enquiry "1622" Service for MobileOne

Customer Enquiry "1626" Service for SingTel Mobile

Customer Enquiry "1627 Service for MobileOne

SingTel Customer Service and Billing Enquiries "1688" Service

SingTel Internet Access MySingTel "1701" Service

SingTel Non-emergency Ambulance "1777" Service

SingTel Local Toll Free "1800" Service

SingTel Enhanced Call Routing "1822" Service

SingTel Virtual Private Network "1880" Service

SingTel Virtual Private Network "1881" Service

SingTel Virtual Private Network "1882" Service

SingTel ICC PIN Change "1890" Service

SingTel International Bonus Card "1891" Service

SingTel ICC Budget Card Postpaid "1892" Service

SingTel Budget Call Prepaid Card "1893" Service

SingTel International Calling Card "1898" Service

SingTel World Card "1899" Service

SingTel Premium Rate "1900" Service

SingTel Televoting "1900-112" Service

SingTel Single Number Service "7000" Service

SingTel ITF Local Access "847" Service