

SCHEDULE 8B – MODIFICATION REQUIRED

***PLEASE SEE GENERAL REQUIREMENTS APPLICABLE TO SCHEDULE 8B
SET OUT IN APPENDIX 1 AND SPECIFIC REQUIREMENTS SET OUT IN
IDA'S ANNOTATIONS BELOW.***

SCHEDULE 8B

CO-LOCATION FOR POINT OF ACCESS (POA)

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SCHEDULE 8B

CO-LOCATION FOR POINT OF ACCESS (POA)

SCHEDULE 8B - GENERAL COMMENTS

- (a) *IDA is of the view that SingTel's proposed definition of "POA Co-Location Equipment" is unnecessarily restrictive. To ensure consistency with the Code 2005, IDA directs SingTel to re-instate in the entire Schedule 8B, the reference to "Co-Location Equipment" as defined in Paragraph 5.3.4 of the IRS/MWS Schedule. SingTel must further make consequential amendments to Schedule 12.*
- (b) *Under Paragraph 5.3 of the IRS/MWS Schedule, SingTel must offer to provide Co-Location Space to FBOs at any technically feasible location within its network and this includes SingTel's exchanges. In implementing the requirements of the Code 2005, SingTel offered to allow Requesting Licensees to obtain Co-Location Space at its exchanges for, among others, POI and POA. In this respect, the RIO separates Co-Location Space obtained for POI and POA into 2 separate schedules, Schedules 8A and 8B respectively. However, as a matter of policy, there is no reason why a Requesting Licensee should be prevented from using a single Co-Location Space obtained from SingTel for both POI and POA. Further, there is no technical or operational justification to separate the request for Co-Location Space for POI and POA into 2 separate RIO schedules. On the contrary, IDA sees benefit in merging these schedules. Firstly, it will lead to greater efficient use of Co-Location Space at SingTel's exchanges, which is a limited resource. It will also lead to further streamlining of the application and provisioning process for obtaining Co-Location Space for POI and POA. Accordingly, IDA directs SingTel to merge Schedules 8A and 8B to enable a Requesting Licensee to obtain Co-Location Space under a single RIO schedule for either or both POA and POI purposes.*

1. GENERAL

CLAUSE 1.1 – MODIFICATION REQUIRED

- 1.1 This Schedule sets out the terms and conditions under which SingTel will provide the Requesting Licensee with Co-Location Space at Co-Location Sites where a Point of Access (**POA**) with SingTel's Network is or is to be located for the sole purpose of acquiring ULL and TLLC it leased under Schedule 3A, 3B and 7B.

SingTel Comment: Clause 1.1

Clarifying amendment only.

IDA takes the position that the phrase “accessing ULL and TLLC” better reflects the purposes for which the Requesting Licensee obtains Co-Location Space for POA. Accordingly, IDA directs SingTel to substitute the word “accessing” in place of the “acquiring”.

- 1.2 Except as provided in this Schedule, the Requesting Licensee shall, at its own cost, provide all installation materials and manpower needed for the installation of their POA Co-Location Equipment.

CLAUSE 1.3 – MODIFICATION REQUIRED

- 1.3 The list of Co-Location Sites as at the date of this RIO Agreement for POAs is listed in Annex 8B.1. SingTel may vary the Co-Location Sites listed in Annex 8B.1 from time to time in accordance with the provisions of the SingTel RIO.

SingTel Comment: Clause 1.3

SingTel has amended clause 1.3 to ensure consistency with the IDA’s statement in its Letter to SingTel dated 21 February 2004 (page 3) that it will treat de-commissioning as an operational issue to be dealt with in accordance with the provisions of the RIO.

Please refer to Paragraph 15 of the Explanatory Memorandum. IDA would clarify that SingTel must still obtain IDA’s approval prior to decommissioning any co-location site that is offered under its RIO. Accordingly, IDA rejects SingTel’s proposed amendments to Clause 1.3.

- 1.4 SingTel shall not be responsible for any damage to the Requesting Licensee’s POA Co-Location Equipment caused by fire, water leakage, air-conditioning/mechanical ventilation failure, power fluctuation/interruption, or anything beyond SingTel’s control in the Co-Location Site other than to the extent that it is the result of a grossly negligent, wilful or reckless breach of this RIO Agreement by SingTel.
- 1.5 This Schedule 8B only applies to Requesting Licensees who are FBOs.

CLAUSES 1.6 AND 1.7 – MODIFICATION REQUIRED

Please refer to Paragraph 3 of Appendix 1. Arising from IDA’s requirement for SingTel to incorporate service level guarantees for each service and effective remedies for failure to comply with such guarantees (including service standards and timeframes for pre-provisioning, provisioning and fault rectification), IDA directs SingTel to propose for IDA’s approval, the necessary consequential amendments to Clauses 1.6 and 1.7 to comply with IDA’s requirements in relation to the service level guarantees and remedies that SingTel must provide under each schedule.

- 1.6 (a) The timeframes in this Schedule relating to pre-provisioning work to be undertaken by SingTel under clauses 3.3, 4.3 and 4.4 (such as the completion of project studies and the assessment of applications) are subject to delays caused by events outside SingTel’s reasonable control, in which case SingTel may extend these timeframes for a period equal to the period of such delays.
- (b) For the avoidance of doubt, a failure to meet these timeframes caused by events outside SingTel’s reasonable control does not constitute a breach of this Schedule or this RIO Agreement.
- 1.7 (a) If SingTel fails to meet any timeframes in this Schedule relating to provisioning work to be undertaken by SingTel under clause 5.1, and the failure to meet the timeframe is solely caused by SingTel, SingTel will provide a remedy to the Requesting Licensee.
- (b) Such remedy will be in the form of a credit to the Requesting Licensee of the recurring Charges payable for the delayed services over a period equal to the period of the delay.
- (c) The Requesting Licensee acknowledges that this remedy is a genuine pre-estimate of the Requesting Licensee’s loss and will be the sole and exclusive remedy available to the Requesting Licensee for such failure to meet provisioning timeframes and shall be SingTel’s sole and exclusive liability to the Requesting Licensee for such failure.

2. AVAILABILITY AT A CO-LOCATION SITE

- 2.1 For the purposes of this Schedule, SingTel may have regard to the following when assessing the availability of Co-Location Space at a Co-Location Site:

- (a) SingTel’s reasonably anticipated requirements in the next one (1) year for space at the Co-Location Site for the provision to itself and its Customers;
- (b) SingTel’s reasonably anticipated requirements in the next one (1) year for space at the Co-Location Site for operation and maintenance purposes;

SingTel Comments: Clause 2.1(a) and (b)

SingTel has reduced the reservation period for Co-Location Space at a Co-Location Site from 2 years to 1 year in accordance with the requirements set out in the IDA’s letter to SingTel dated 21 February 2005 (page 4).

- (c) the Requesting Licensee and other Third Party requirements (including for operation and maintenance purposes) which have been ordered but not yet delivered or which have been provided;

CLAUSE 2.1(d) – MODIFICATION REQUIRED

- (d) security and confidentiality requirements or restrictions imposed on SingTel by Governmental Agencies or Customers; and

SingTel Comments: Clause 2.1(d)

SingTel notes that some Customers, such as foreign embassies, impose certain restrictions on the availability and use of telecommunications equipment used to provide their telecommunications services in order to prevent or minimise the possibility of any security breach in respect of the telecommunication services they receive. Clause 2.1(d) has been amended on this basis.

SingTel is proposing amendments to Clause 2.1(d) to expand the scope of its application to “restrictions” and “Customers”. While IDA accepts consideration of “security and confidentiality requirements imposed by Governmental Agencies”, there is no basis to expand this to include “restrictions” imposed by “Customers”. It is the Customers that have the ability to control access to its premises. IDA will not permit SingTel to impose any unjustified restriction on the availability of Co-Location Space at a Co-Location Site, to the detriment of competing operators. Accordingly, IDA rejects SingTel’s proposed amendments to Clause 2.1(d).

- (e) whether SingTel has plans or otherwise proposes to decommission the Co-Location Site within six (6) months of the date of the Co-Location Request.

2A. SINGTEL EXCHANGE RELATED INFORMATION

- (a) The Requesting Licensee may request that SingTel provide the Requesting Licensee with the SingTel Exchange Related Information by submitting its request in the form set out in Annexure 8B.3.
- (b) SingTel will process all requests for the SingTel Exchange Related Information on a non-discriminatory “first come first serve” basis.

CLAUSE 2A(c) - MODIFICATION REQUIRED

- (c) SingTel must provide the SingTel Exchange Related Information within fifteen (15) Business Days of the date of receipt of the request. SingTel may provide the Requesting Licensee with the SingTel Exchange Related Information on a progressive basis during the fifteen (15) Business Day period.

Following industry feedback, IDA is of the view that the 15 Business Day timeframe for SingTel to provide the SingTel Exchange Related Information may be streamlined further. In this connection, IDA is of the view that a period of 10 Business Days is reasonable, taking into account the interests of both SingTel and the Requesting Licensee. IDA directs SingTel to modify Clause 2A(c) to incorporate the requirements specified.

- (d) The Requesting Licensee must pay all Charges in relation to a request for the SingTel Exchange Related Information in accordance with Schedule 9 of the RIO Agreement.
- (e) The Requesting Licensee acknowledges that the SingTel Exchange Related Information is the Confidential Information of SingTel and that the Requesting Licensee must comply with clause 23 of the main body of the RIO Agreement in relation to such information. The Requesting Licensee must only use the SingTel Exchange Related Information for the sole and exclusive purpose of acquiring Co-Location Space under this Schedule.
- (f) SingTel warrants that the SingTel Exchange Related Information is accurate as at the date of providing the information to the Requesting Licensee. The Requesting Licensee acknowledges that the details of the SingTel Exchange Related Information may change from time to time without notice to the Requesting Licensee.

CLAUSE 2A(g) – MODIFICATION REQUIRED

- (g) Subject to SingTel’s obligation in clause 2A(f) above, the Requesting Licensee acknowledges that:
- i) it will use the SingTel Exchange Related Information at its own risk; and
 - ii) SingTel is not liable for any loss or damage incurred by the Requesting Licensee in relation to the use of the SingTel Exchange Related Information.

In Clause 2A(f), SingTel warrants the accuracy of the SingTel Exchange Related Information. However, in Clause 2A(g), SingTel absolves itself from liability with respect to the warranty given in Clause 2A(f). IDA does not consider Clause 2A(g) to be reasonable. Given that SingTel is recovering its costs from the Requesting Licensee for providing the information, SingTel cannot absolve itself from liability with respect to providing accurate information. In relation to any concern that SingTel may have with respect to being made liable for a Requesting Licensee’s losses arising from the latter’s use of the SingTel Exchange Related Information for any purpose other than that for which it is provided or where the information is no longer current, such concerns are already addressed in Clauses 2A(e) and 2A(f). Accordingly, IDA directs SingTel to delete Clause 2A(g) in its entirety.

3. ORDERING AND PROVISIONING PROCEDURE

3.1 The Requesting Licensee shall submit its request for Co-Location Space at a Co-Location Site for POA listed in Annex 8B.1 using a Co-Location Request Form in the form of Attachment G containing the following information:

- (a) the Co-Location Site listed in Annex 8B.1 at which Co-Location Space is sought;
- (b) confirmation that Co-Location Space at that Co-Location Site is for the purpose of:
 - (i) connection of Local Loop, Sub Loop or Shared Line licensed or to be licensed under Schedules 3A and 3B; or
 - (ii) TLLC licensed or to be licensed under Schedule 7B;
- (c) the type of POA Co-Location Equipment proposed to be installed at that Co-Location Site;

- (d) the space (subject to clause 3.2) and power requirements;
- (e) the floor loading of the POA Co-Location Equipment;
- (f) the capacity of the Subscriber Loop Tie Cable in the case of Co-Location in relation to Local Loop or Sub Loop under Schedule 3A;
- (g) the type of optical fibre cable to be used, and the diameter of the fibre cable;
- (h) the Requesting Licensee's contact details; and
- (i) in the case of Co-Location in relation to TLLC, the quantities and specifications for each of:
 - (i) the n x 64 Kbps Tie Cables (in multiples of two (2) pairs for TLLC Services for below 2 Mbps TLLC Service bandwidth);
 - (ii) the 2 Mbps Tie Cables (in multiples of four (4) pairs for TLLC Services for 2 Mbps TLLC Service bandwidth); and
 - (iii) the coaxial/fibre Tie Cables (in multiples of two (2) for TLLC Services for 45 Mbps and 155 Mbps TLLC Service bandwidth).

3.2 The Requesting Licensee must request space at a Co-Location Site of a minimum of one (1) square metre to a maximum of ten (10) square metres.

CLAUSES 3.3 AND 3.4 - MODIFICATION REQUIRED

IDA is of the view that the procedure for approving and rejecting applications set out in Clauses 3.3 and 3.4 are cumbersome and can be significantly streamlined to provide for a more efficient process. Accordingly, IDA directs SingTel to modify Clauses 3.3 and 3.4 to incorporate the following requirements:

- (a) ***Within 1 Business Day of the Request Date, SingTel must notify the Requesting Licensee whether its application is accepted or rejected. In this respect, SingTel may only reject the application for the following reasons:***
 - (i) ***the Requesting Licensee is not an FBO;***
 - (ii) ***the Co-Location Request is not in the prescribed form;***
 - (iii) ***the Co-Location Request does not contain the required information;***
 - (iv) ***the space requested is not within the limits prescribed by Clause 3.2;***

- (v) *SingTel has plans or otherwise proposes to decommission the Co-Location Site within 6 months of the date of the Co-Location Request (under Clause 2.1(e)).*

Where SingTel rejects the application, SingTel must provide reasons explaining the basis for rejection. IDA considers the timeframe of 1 Business Day to be reasonable given that the basis for determining acceptance or rejection would be apparent on the face of the application.

- (b) *In the case where SingTel notifies the Requesting Licensee of acceptance, SingTel must complete its detailed processing and inform the Requesting Licensee within 3 Business Days from the Request Date of the following:*

- (i) *whether or not the Co-Location Space at a Co-Location Site is available as determined under Clause 2 (except that the consideration in Clause 2.1(e) on decommissioning shall not apply); and*
- (ii) *if the basis for rejection in Clause 3.4(f) applies.*

Where SingTel notifies the Requesting Licensee that the Co-Location Space at a Co-Location Site is unavailable or if the basis for rejection set out in Clauses 3.4(f) applies, SingTel must provide an explanation of the basis for its determination. IDA considers the timeframe of 3 Business Days to be reasonable, and IDA notes that SingTel has proposed the same timeframe under Clause 3.3.

- 3.3 If the Co-Location Request is rejected, SingTel will provide the reasons for such rejection to the Requesting Licensee within three (3) Business Days of the date of the Co-Location Request. SingTel shall recover the Co-Location Request fee for the reasonable cost of processing the Co-Location Request as provided in Schedule 9, irrespective of the outcome of the Co-Location Request.

SingTel Comments: Clause 3.3

SingTel has amended clause 3.3 to further streamline the ordering and provisioning process in relation to Co-Location Requests, as required by the IDA (IDA Letter to SingTel, 21 February 2005, page 1).

SingTel has never refused a Co-Location Request. SingTel has therefore structured clause 3 to provide for the automatic processing of requests for co-location. A Requesting

Licensee will only therefore be notified in the unlikely event that a request has been unsuccessful.

3.4 SingTel may reject a Co-Location Request if:

- (a) the Requesting Licensee is not an FBO; or
- (b) the Co-Location Request is not in the prescribed form; or
- (c) the Co-Location Request does not contain the required information; or
- (d) the space requested is not within the limits prescribed by clause 3.2; or
- (e) there is no available space at the Co-Location Site as determined in accordance with clause 2; or
- (f) acceptance of the Co-Location Request will give rise to significant health, safety, technical or engineering issues.

3.5 The Requesting Licensee acknowledges that the Co-Location Space allocated and the actual placement of the POA Co-Location Equipment shall be determined by SingTel. SingTel is not obligated to place the same Requesting Licensee's Co-Located Equipment adjacent to each other, provided that SingTel will use its reasonable endeavours to accommodate any reasonable request for adjacent placement made by the Requesting Licensee.

3.6 SingTel shall process all Co-Location Space Requests on a 'first come, first served' basis up to the maximum amount specified in clause 3.7.

PROPOSED NEW CLAUSE 3.7 - REJECTION

3.7 SingTel shall process a combined total of no more than three (3) Co-Location Requests under Schedules 8A, 8B and 8D per week and any additional requests shall overflow to the next week.

SingTel Comment: New clauses 3.6 and 3.7

SingTel considers that it is reasonable to impose a per week limit on the number of Requests for Co-Location. SingTel's ability to handle Requests for Co-Location are limited, given the complicated and technical nature of such Requests.

In any case, SingTel considers that the maximum per week limit set out in clause 3.7 is proportionate to the level of demand for co-location by Requesting Licensees.

In the current RIO, there is no limit prescribed on the number of applications that SingTel must process for Co-Location Requests. Taking into account SingTel's experience in implementing the RIO since 2001, IDA does not see any justification why SingTel should now require a limit for processing Co-Location Requests.

CLAUSE 4 – MODIFICATION REQUIRED

IDA is of the view that the existing Project Study procedures set out in Clause 4 are cumbersome and can be significantly streamlined to provide for a more efficient process, as well as lacks sufficient accountability and certainty. Accordingly, IDA directs SingTel to modify Clause 4 to incorporate the following requirements:

- (a) SingTel must complete the Project Study within 15 Business Days from the date of the Co-Location Request. IDA considers this timeframe to be reasonable because SingTel's RIO has been in effect for almost five years. As such, SingTel ought to have a reasonable amount of experience in processing such Requests.*
- (b) As currently drafted, Clause 4.4 does not specify a timeframe within which SingTel will provide the information in Clause 4.4. This results in the lack of business certainty for the Requesting Licensee. Therefore, IDA requires SingTel to provide the required information within the same 15 Business Day period as specified in annotation (a) above.*
- (c) The existing process contemplates both a preliminary site survey and a joint site survey. However, it is not clear as to the activities that SingTel will undertake with respect to both surveys. IDA will not permit SingTel to raise a Requesting Licensee's costs without legitimate justification and in this respect, IDA does not consider a preliminary site survey to be necessary.*

4. PROJECT STUDY

- 4.1 SingTel will commence a Project Study within fifteen (15) Business Days of the expiry of the timeframe for rejection of the Co-Location Request under clause 3.3. The Requesting Licensee must pay the Project Study fee specified in Schedule 9.

SingTel Comments: Clause 4.1

SingTel has amended clause 4.1 to further streamline the ordering and provisioning process in relation to Co-Location Requests, as required by the IDA (IDA Letter to SingTel, 21 February 2005, page 1).

- 4.2 The Project Study normally entails at least two (2) site visits:
- (a) a preliminary site survey by SingTel to determine and assess the space, power, earth, fibre and Subscriber Loop Tie Cable routing and any Site Preparation Works required for Co-Location; and
 - (b) a joint site survey with the Requesting Licensee.
- 4.3 SingTel shall schedule the preliminary site survey and a joint site survey. SingTel shall complete the Project Study within fifteen (15) Business Days of its commencement.
- 4.4 Following completion of the Project Study, SingTel shall provide the Requesting Licensee with the following information:
- (a) the estimated Charges for the Site Preparation Work (including a breakdown of the major components of the Charges) and an outline of the major elements of the Site Preparation Work to be undertaken by SingTel;
 - (b) the location of the designated Lead-in Manhole and the direction of the Connection Duct;
 - (c) the type and length of Tie Cable required from Requesting Licensee's termination frame to SingTel's distribution frame;
 - (d) the length of fibre cable required from the Lead-in Manhole to the Co-Location Space;

CLAUSE 4.4(e) - MODIFICATION REQUIRED

- (e) the number of Business Days reasonably expected to complete the Site Preparation Work; and

With reference to IDA's annotations to Clause 5 below, IDA directs SingTel to modify Clause 4.4(e) to incorporate the specified requirements.

- (f) in the case of Co-Location in relation to TLLC, the length and associated connectors for each of:
 - (i) the n x 64 Kbps Tie Cables (for below 2 Mbps TLLC Service bandwidth);
 - (ii) the 2 Mbps Tie Cables (for 2 Mbps TLLC Service bandwidth); and/or
 - (iii) the coaxial/fibre Tie Cables (for 45 Mbps and 155 Mbps TLLC bandwidth).

4.5 SingTel shall be entitled to levy and receive the Project Study Fee provided in Schedule 9 irrespective of whether the Requesting Licensee proceeds with the Co-Location Request after completion of the Project Study.

CLAUSE 5 – MODIFICATION REQUIRED

IDA directs SingTel to modify Clause 5 (and Clause 4.4(e)) to incorporate the following requirements:

- (a) ***Taking into consideration SingTel’s experience in implementing the RIO since 2001, IDA considers it reasonable to now require SingTel to commit to a specific timeframe by which SingTel must complete the Site Preparation Work. This will provide certainty to Requesting Licensees and facilitate their network planning. Accordingly, SingTel must propose for IDA’s approval a specific timeframe by which it must complete the Site Preparation Work. The timeframe must be broken down into the specific tasks that SingTel will perform and the maximum time in which SingTel will take to complete each task. If SingTel is unable to complete the Site Preparation Work within the timeframe specified, SingTel must promptly notify the Requesting Licensee and specify a revised timeframe for completion. With reference to Paragraph 3 of Appendix 1, SingTel must also provide a remedy to the Requesting Licensee for any failure to meet the timeframe and the revised timeframe.***
- (b) ***SingTel must account to the Requesting Licensee all estimated Charges for the Site Preparation Work in order to enable the Requesting Licensee to decide if it wishes to proceed with Co-Location. Accordingly, SingTel must modify Clause 5.1 to provide that SingTel will include, as part of the notification of the result of the Project Study, clear and detailed explanation of the scope of Site Preparation Work to be undertaken together with the estimated Charges for each item of such work. SingTel must also incorporate modifications to provide for its obligation to keep the Requesting Licensee informed if SingTel has any reason to believe that***

the costs incurred may exceed the estimated Charges and to seek the Requesting Licensee's agreement to such additional costs.

- (c) *SingTel must notify the Requesting Licensee within 1 Business Day from the completion of the Site Preparation Work to attend the Co-Location Site for a final site inspection of the Co-Location Space.*

5. SITE PREPARATION WORK

- 5.1 Within five (5) Business Days from the date of notification of the result of the Project Study under clause 4.4, the Requesting Licensee shall confirm in writing that it wishes to proceed with Co-Location and it agrees to pay the estimated Charges for Site Preparation Work (as notified by SingTel from time to time). The Charges for Site Preparation Work are estimates only and are subject to change. SingTel shall use its reasonable endeavours to complete the Site Preparation Work within the price estimate. SingTel may provide the Requesting Licensee with a revised price estimate from time to time due to circumstances beyond its reasonable control. SingTel may suspend construction under this clause until the Requesting Licensee agrees to the revised price estimate. SingTel shall complete the Site Preparation Work within the period advised under clause 4.4. If SingTel is unable to complete the Site Preparation Work within the advised period, SingTel shall notify the Requesting Licensee of a revised date for completion (which, in all the circumstances, shall be within a reasonable period of time).
- 5.2 As part of the Site Preparation Work, SingTel shall construct two (2) 110mm Connection Ducts of one (1) metre from the designated Lead-in Manhole in the direction indicated in clause 4.4(b) for the Requesting Licensee to connect its ducts. SingTel shall construct the duct seal for the Connection Ducts constructed in SingTel's Lead-in Manhole.
- 5.3 Upon completion of the Site Preparation Work, SingTel will notify the Requesting Licensee and request the Requesting Licensee to attend the Co-Location Site for a final site inspection of the Co-Location Space.

6. INSTALLATION AND MAINTENANCE OF POA CO-LOCATION EQUIPMENT IN CO-LOCATION SPACE

- 6.1 The Parties agree to comply with the following procedures in connection with the installation and maintenance of POA Co-Location Equipment:

- (a) the Co-Location Equipment Installation and Maintenance Procedures at Attachment A and as amended by SingTel from time to time;
- (b) the Standard Operating Procedures at Attachment B and as amended by SingTel from time to time; and
- (c) the Physical Access Procedures at Attachment C and as amended by SingTel from time to time.

6.2 SingTel shall provide:

- (a) the installation and termination of the Subscriber Loop Tie Cable; and
- (b) the distribution frame in connection with the routing of the Requesting Licensee's TLLC Service and shall perform the physical installation and termination of the Requesting Licensee's cabling to SingTel's distribution frame. However, the Requesting Licensee shall be responsible for all terminations at its own equipment and for providing the associated cabling and connectors between the Requesting Licensee's Equipment and SingTel's distribution frame in order to facilitate the physical termination of the link to SingTel's distribution frame.

6.3 The Requesting Licensee shall pay SingTel in accordance with Schedule 9:

- (a) the recurring Charges for the lease of the Subscriber Loop Tie Cable; and
- (b) the one-time Charges for the installation and termination of the Requesting Licensee's Tie Cables.

CLAUSE 7 – MODIFICATION REQUIRED

IDA directs SingTel to modify Clause 7 to incorporate the following requirements:

- (a) ***SingTel must not impose a minimum term for the licence of the Co-Location Space. To compel a Requesting Licensee to retain its licence for the Co-Location Space that the Requesting Licensee no longer requires is inefficient and wasteful.***
- (b) ***Therefore, while the term of the licence for the Co-Location Space shall continue until the expiry of the RIO Agreement, the Requesting Licensee may terminate the licence at any time by giving SingTel 1 month notice period. However, where the Requesting Licensee requires termination of the licence before the expiry of the 1 month notice period, the Requesting Licensee will remain liable for the recurring***

charges under the licence until the date of expiry of the 1 month notice period term.

This amendment is necessary to provide the industry with certainty as to the duration of the licence for Co-Location Space and obviates the unnecessary process of renewing the licence. Further, IDA is of the view that the current notice period of 6 months prescribed in Clause 9.2 for termination by the Requesting Licensee unnecessarily hinders the Requesting Licensee's ability to structure its business operations to meet changing market conditions.

- (c) Please also refer to IDA's annotations to Clause 9.4 below on the circumstances under which SingTel may terminate the licence of Co-Location Space upon the occurrence of certain specified events.*
- (d) Clause 7.1 must be modified to specify that the licence will commence from the completion of the Site Preparation Work, and not on the date the Requesting Licensee confirms its acceptance of the Charges for Site Preparation Work at the Co-Location Site.*

7. TERM OF LICENCE

7.1 The term of a Co-Location Space licence granted under this Schedule shall commence on the date the Requesting Licensee confirms its acceptance of the Charges for Site Preparation Work at the Co-Location Site (**Commencement Date**) and continues for a period of two (2) years from the Commencement Date until:

- (a) the Co-Location Space licence is terminated in accordance with this Schedule;*
- (b) the SingTel RIO is revoked by the Authority under clause 13.8 of the RIO Agreement; or*
- (c) until the Authority removes the requirement for SingTel to provide Co-Location Space under the SingTel RIO or exempts SingTel from providing Co-Location Space under clause 13.9 of the RIO Agreement.*

SingTel Comment: Clause 7

Consequential amendment. Clauses in relation to termination of this Schedule have been moved to new clause 9 (Termination of Licence).

CLAUSE 8 – MODIFICATION REQUIRED

The suspension of any licence for Co-Location Space must be subject to IDA’s approval. Accordingly, IDA directs SingTel to modify Clause 8.1 to subject its application to Clause 12.2 of Part 2 of the Main Body of the RIO Agreement.

8. SUSPENSION OF LICENCE

- 8.1 SingTel may suspend the Requesting Licensee’s Co-Location Space licence at any time until further notice to the Requesting Licensee if the POA Co-Location Equipment causes or is likely to cause physical or technical harm to any telecommunications network, system or services (whether of SingTel or any other person) including but not limited to causing damage, interfering with or causing deterioration in the operation of SingTel’s Network.
- 8.2 Without limiting the exclusions or limitations of liability in this RIO Agreement, SingTel shall not be liable to the Requesting Licensee for any Loss resulting from, or in connection with, suspension of access to Co-Location Space under this clause 8.

9. TERMINATION OF LICENCE

PROPOSED NEW CLAUSE 9.1 – MODIFICATION REQUIRED

- 9.1 SingTel may terminate the licence of Co-Location Space at any time with immediate effect by giving notice to the Requesting Licensee if the Requesting Licensee fails to complete the installation of its POA Co-Location Equipment within thirty (30) Business Days under Attachment A. If the Requesting Licensee’s failure to complete installation is attributable to circumstances beyond the Requesting Licensee’s reasonable control, SingTel will grant a reasonable extension of time for installation to the Requesting Licensee at the Requesting Licensee’s request. A Requesting Licensee’s request under this clause must describe the circumstances beyond the Requesting Licensee’s control and such request must be received prior to the expiry of the aforementioned thirty (30) Business Day period.

IDA notes that proposed new Clause 9.1 does not specify the timeframe within which SingTel will notify the Requesting Licensee whether or not it approves the request for extension of time. This results in business uncertainty for the Requesting Licensee. Accordingly, SingTel directs IDA to modify proposed new Clause 9.1 to provide that SingTel will notify the Requesting Licensee of its approval or rejection within 2 Business Day from the date of request for extension.

PROPOSED NEW CLAUSE 9.2 – MODIFICATION REQUIRED

9.2 The Requesting Licensee may terminate a licence of Co-Location Space under this Schedule by giving SingTel no less than six (6) months written notice. Termination of the licence will take effect from the date specified in the notice.

With reference to IDA’s annotations to Clause 7, IDA directs SingTel to modify proposed new Clause 9.2 by reducing the notice period from 6 months to 1 month.

PROPOSED NEW CLAUSE 9.3 – MODIFICATION REQUIRED

9.3 Subject to clause 13.2 of the RIO Agreement where SingTel is the terminating party, either Party (**Terminating Party**) may immediately terminate a licence of Co-Location Space at a Co-Location Site if the other Party is in breach of this Schedule and such breach remains unremedied for a period of five (5) Business Days after receiving written notice from the Terminating Party to do so.

Consistent with IDA’s required amendments to Clauses 12.1(d) and 13.1(d) of Part 2 of the Main Body of SingTel’s RIO, IDA directs SingTel to modify proposed new Clause 9.3 by extending the notice period to 14 Calendar Days

PROPOSED NEW CLAUSE 9.4 – MODIFICATION REQUIRED

IDA directs SingTel to modify proposed new Clause 9.4 to incorporate the following requirements:

- (a) IDA will not permit SingTel to terminate the Co-Location Site licence immediately by written notice, except in the circumstances specified in proposed new Clauses 9.4(a) to (d) and (f) to (g).*
- (b) Where proposed new Clause 9.4(e) applies, SingTel must provide the Requesting Licensee with 10 Business Days’ notice prior to terminating the licence. This is to avoid any dispute, should SingTel wrongly conclude that the Requesting Licensee has abandoned its Co-Location Equipment.*
- (c) IDA is of the view that the events triggering proposed new Clause 9.4(h) should be dealt with in proposed new Clause 9.5. Accordingly, unless SingTel can provide IDA with satisfactory justification for retaining proposed new Clause 9.4(h), IDA rejects proposed new Clause 9.4(h).*

9.4 Subject to clause 13.2 of the RIO Agreement, SingTel may immediately terminate a licence of Co-Location Space at a Co-Location Site if:

- (a) in SingTel's reasonable opinion, the Requesting Licensee is using the Co-Location Space in contravention of an applicable law, licence, code, regulation or direction and SingTel has the necessary confirmation from the relevant Governmental Agencies that the Requesting Licensee is in contravention of the applicable law, licence, code, regulation or direction;
- (b) the licence of Co-Location Space causes or is likely to cause physical or technical harm to the SingTel Network or Co-Location Site, including but not limited to causing damage, interfering with or causing deterioration in the operation of the SingTel Network;
- (c) the Co-Location Equipment is used for a purpose other than for access to ULLs and/or connection to TLLC in accordance with this RIO Agreement;
- (d) the Requesting Licensee's POA Co-Location Equipment is not connected in respect of access to ULLs and/or connection to TLLC supplied in accordance with this RIO Agreement;
- (e) the Requesting Licensee removes or abandons its POA Co-Location Equipment;
- (f) the Requesting Licensee locates equipment other than POA Co-Location Equipment in the Co-Location Space;
- (g) the Co-Location Space has become unsafe for its purpose; or
- (h) SingTel's right to own, maintain or operate the Co-Location Site is revoked or terminates or expires.

PROPOSED NEW CLAUSE 9.5 – MODIFICATION REQUIRED

9.5 SingTel may give the Requesting Licensee no less than six (6) months notice at any time during the term that the licence at a Co-Location Space is to be terminated because of the closure of that Co-Location Site. The Requesting Licensee shall bear its own cost associated with the closure of a Co-Location Site. In the event that the Requesting Licensee requests assistance from SingTel within thirty (30) Business Days after receiving a notice under this clause to provide an alternative solution to the Co-Location Space which is being terminated SingTel will use its reasonable endeavours in providing such assistance. SingTel will take reasonable measures to

minimise disruptions to the Requesting Licensee in the provision of its services to Customers arising from the termination of the Co-Location Site. The Requesting Licensee shall remain solely responsible for making any alternative arrangements as are necessary to continue to provide its Customers with services. Nothing in this clause prevents SingTel from terminating the licence at a Co-Location Space at the end of the six (6) month notice period under this clause provided that SingTel has complied with this clause 9.5.

Given that the closure of a Co-Location Site is an event that is planned for by SingTel well in advance, IDA considers it reasonable to require SingTel to provide at least 6 months prior notice to the Requesting Licensee before such event. This will provide the Requesting Licensee with reasonable sufficient notice to make alternative arrangements and minimise service disruption to End Users. However, in situations where SingTel is unable to provide the minimum required notice of 6 months under proposed new Clause 9.5 as a result of circumstances beyond SingTel's reasonable control (for example, where a third party requires SingTel to close the site without providing sufficient notice to SingTel), SingTel must notify the Requesting Licensee as soon as practicable upon becoming aware of any pending closure of the site. In addition, SingTel must take reasonable measures to minimise disruptions to the Requesting Licensee in the provision of its services to End Users arising from the termination. IDA directs SingTel to modify proposed new Clause 9.5 to incorporate the requirements specified.

PROPOSED NEW CLAUSE 9.6 AND 9.7 – MODIFICATION REQUIRED

Please refer to Paragraph 2 of Appendix 1. IDA will permit SingTel to recover all reasonable costs associated with the reinstatement of its Co-Location Space. However, such a right of recovery is not applicable where the Co-Location Space is being decommissioned by SingTel. This is because in such a situation, it is SingTel's business decision that caused the cost; and (ii) SingTel would not be able to avoid the costs of termination in any case since decommissioning of the Co-Location Space necessarily entails termination. Accordingly, IDA directs SingTel to modify proposed new Clauses 9.6 and 9.7 to incorporate the requirements specified.

IDA further directs SingTel to modify proposed new Clause 9.7 to clarify that the exclusion of liability applies only in connection with the disposal of the Co-Location Equipment.

9.6 Upon expiry or termination of the licence of Co-Location Space:

- (a) the Requesting Licensee must discontinue the use of its POA Co-Location Equipment and remove its POA Co-Location Equipment from the Co-Location

Site within thirty (30) Business Days after the expiry of the Requesting Licensee's licence or from the date of termination of Co-Location Space, whichever is the earlier.

- (b) SingTel shall reinstate the Co-Location Space and recover/reinstate all cables/supports/opening and recover the reasonable cost of such reinstatement from the Requesting Licensee.

9.7 If the Requesting Licensee fails to discontinue the use of its POA Co-Location Equipment and remove its POA Co-Location Equipment under clause 9.6, SingTel shall remove the Requesting Licensee's POA Co-Location Equipment and reinstate the Co-Location Site to its original condition. The Requesting Licensee shall pay to SingTel all reasonable costs associated with the work undertaken by SingTel including the disposal of the POA Co-Location Equipment. In such event, the Requesting Licensee shall have no claim whatsoever against SingTel.

PROPOSED NEW CLAUSE 9.8 – MODIFICATION REQUIRED

9.8 Upon termination of the licence of Co-Location Space, any physical access granted to the Co-Location Site shall also be terminated.

Upon termination of the licence of Co-Location Space, a Requesting Licensee may still require physical access in order to remove its equipment. Accordingly, IDA directs SingTel to modify proposed new Clause 9.8 to allow Requesting Licensees physical access for the purposes of removing equipment.

PROPOSED NEW CLAUSE 9.8 - REJECTION

9.9 Upon termination by the Requesting Licensee under clause 9.2 or by SingTel under clauses 9.1, 9.3 or 9.4 (except clause 9.4(g) and 9.4(h)) of a licence of a Co-Location Space prior to the expiry of the licence term referred to in clause 7.1, the following Charges shall be recovered from the Requesting Licensee but only where SingTel has, at its discretion, constructed additional Co-Location Space and has not recovered the full cost of Site Preparation Work from the Requesting Licensee from upfront Site Preparation Work Charges:

- (a) licence Charges for the remainder of the original licence term; and
- (b) outstanding pro-rata Site Preparation Work Charges.

The cost incurred by SingTel for Site Preparation Work must be notified to the Requesting Licensee upfront and be recovered from the Requesting Licensee upfront. In this respect, IDA will not permit SingTel to recover any cost for Site Preparation Work that has not been notified and recovered from the Requesting Licensee upfront. Accordingly, IDA rejects SingTel's proposed new Clause 9.9.

10. SUB-LICENSING

10.1 The Requesting Licensee must not assign the licence in respect of or sub-let the Co-Location Space at the Co-Location Site.

11. ADDITIONAL CO-LOCATION SPACE AND POA CO-LOCATION EQUIPMENT

CLAUSES 11.1 AND 11.2 - MODIFICATION REQUIRED

IDA requires SingTel to clarify the applicable procedures and timeframes by which SingTel will process a Requesting Licensee's request for replacement, modification, rearrangement or additional installation of equipment. In this respect, it is uncertain as to which sub-clauses in Clause 3 apply. In any event, the applicable procedures and timeframes must be sufficiently streamlined to enable a Requesting Licensee to make its request and for SingTel to process the request in an efficient and expedient manner. Accordingly, IDA directs SingTel to modify Clauses 11.1 and 11.2 to incorporate the requirements specified.

In addition, any reasonable cost which SingTel seeks to recover for processing such request is subject to IDA's approval. If SingTel wants to recover such costs, SingTel must propose for inclusion in Schedule 9 the relevant costs.

11.1 If the Requesting Licensee wishes to replace, modify or rearrange existing POA Co-Location Equipment in the Co-Location Space or to install additional POA Co-Location Equipment in the Co-Location Space, the Requesting Licensee must submit a request in respect of the replacement, modification, rearrangement or additional POA Co-Location Equipment. The Requesting Licensee shall be liable for all costs incurred by SingTel processing a request under this clause 11.1.

SingTel Comment: Clause 11.1

SingTel should be permitted to recover any costs it incurs in fulfilling a request under clause 11.1.

11.2 Requests for additional Co-Location Space at Co-Location Sites shall be treated as a separate Co-Location Request and the process of ordering and provisioning in clause 3 shall apply. Subject to the applicable minimum quantities specified, any application for additional Tie Cables shall be submitted to SingTel using a Request For Additional Tie Cables Form set out in Annex 8B.2. SingTel will use reasonable endeavours to provide the additional Tie Cables no later than thirty (30) Calendar Days from the date of receiving the Requesting Licensee's application.

ANNEX 8B-1

LIST OF POSSIBLE CO-LOCATION SITES FOR POA

Serial Number	Description of POA Co-Location Site
1	Ang Mo Kio Telephone Exchange
2	Ayer Rajah Telephone Exchange
3	Bedok Telephone Exchange
4	Bukit Panjang Telephone Exchange
5	Changi Telephone Exchange
6	Central Telephone Exchange
7	East Telephone Exchange
8	Geylang Telephone Exchange
9	Hougang Telephone Exchange
10	Jurong East Telephone Exchange
11	Jurong Telephone Exchange
12	Jurong West Telephone Exchange
13	Katong Telephone Exchange
14	North Telephone Exchange
15	Paya Lebar Telephone Exchange
16	Pasir Ris Telephone Exchange
17	Queenstown Telephone Exchange
18	Telok Blangah Telephone Exchange
19	Tampines Telephone Exchange
20	Tuas Telephone Exchange
21	Woodlands Telephone Exchange
22	City Telephone Exchange
23	City South Telephone Exchange
24	Orchard Telephone Exchange

ANNEX 8B-2

REQUEST FOR ADDITIONAL TIE CABLES

The Requesting Operator

Date of Application : _____ Application Reference Number : _____
Request for Additional Tie Cables is sought for the purpose of :
[POA] _____
Address of Co-Location site : _____
Capacity of Tie Cables Requested : _____

On Behalf of the Requesting licensee

Sign : _____ Name of Requesting Licensee: _____
Name : _____
Designation : _____
Department : _____
Contact Number : _____ Company Stamp : _____
Fax Number : _____

SingTel's Reply to the Requesting Operator

Application returned - incomplete/illegible
 Not Approved _____

Approved subject to details and conditions given in the attached Letter of Authorisation
 Alternative Date and Time SingTel Approval Code : _____

On Behalf of SingTel

Sign : _____ Contact Number : _____
Name : _____ Fax Number : _____
Date : _____

Processing Status

Received Date : _____ Queue Status : _____ Processed Date : _____

To: Manager, Network Integration and Interconnect, SingTel
 Fax: 6848 4113

We request that SingTel provide the following SingTel Network Related Information:

BOX 1 – SINGTEL EXCHANGE RELATED INFORMATION

1. The address of a SingTel Exchange Building included in Box 2;

2. The diagram of the network boundary for that SingTel Exchange Building (i.e. the streets making up the boundary of the SingTel Exchange Building).

Please tick the box corresponding to the SingTel Exchange for which SingTel Exchange Related Information is required.

Box 2 – SingTel Local Exchange	Network
Ang Mo Kio Telephone Exchange	<input type="checkbox"/>
Ayer Rajah Telephone Exchange	<input type="checkbox"/>
Bedok Telephone Exchange	<input type="checkbox"/>
Bukit Panjang Telephone Exchange	<input type="checkbox"/>
Changi Telephone Exchange	<input type="checkbox"/>
Central Telephone Exchange	<input type="checkbox"/>
East Telephone Exchange	<input type="checkbox"/>
Geylang Telephone Exchange	<input type="checkbox"/>
Hougang Telephone Exchange	<input type="checkbox"/>
Jurong East Telephone Exchange	<input type="checkbox"/>
Jurong Telephone Exchange	<input type="checkbox"/>
Jurong West Telephone Exchange	<input type="checkbox"/>
Katong Telephone Exchange	<input type="checkbox"/>
North Telephone Exchange	<input type="checkbox"/>
Paya Lebar Telephone Exchange	<input type="checkbox"/>
Pasir Ris Telephone Exchange	<input type="checkbox"/>
Queenstown Telephone Exchange	<input type="checkbox"/>
Telok Blangah Telephone Exchange	<input type="checkbox"/>
Tampines Telephone Exchange	<input type="checkbox"/>
Tuas Telephone Exchange	<input type="checkbox"/>
Woodlands Telephone Exchange	<input type="checkbox"/>
City Telephone Exchange	<input type="checkbox"/>
City South Telephone Exchange	<input type="checkbox"/>

We agree that:

- (a) we are liable for all Charges that may arise in relation to a request for SingTel Exchange Related Information; and
- (b) SingTel Exchange Related Information constitutes Confidential Information and will be treated as such in accordance with clause 23 of the main body of the RIO Agreement.

Signature: _____

Date: _____

Name: _____

Designation: _____

Company: _____

Company Stamp: _____