

SCHEDULE 7B

WHOLESALE LOCAL LEASED CIRCUITS (TAIL CIRCUITS)

SCHEDULE 7B

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SCHEDULE 7B

WHOLESALE LOCAL LEASED CIRCUIT (TAIL CIRCUITS) SERVICE

1. SCOPE

1.1 This Schedule sets out the terms and conditions under which SingTel will provide the Requesting Licensee with the Wholesale Local Leased Circuits (Tail Circuits) Service (**TLLC Service**) for the carriage of digital communications between an End User's site and the Requesting Licensee's co-located equipment. The TLLC Service is provided for the sole purpose of enabling the Requesting Licensee to establish a connection between its co-located equipment and the End User's site for use as a transparent input in the provision of a telecommunications service to the End User.

1.2 The TLLC Service is a dedicated end-to-end link connecting:

(a) the End User's site and

(b) the Requesting Licensee's Co-located equipment at the SingTel Exchange Building nearest to and serving the End User's site,

at the bandwidths options set out in Annex 7B-1 and where the technical means of delivery of the TLLC Service in accordance with this description is at SingTel's sole discretion.

1.3 The provision of Co-Location Space and physical access thereto at Co-Location Sites for the purposes of being supplied with the TLLC Service must be acquired by the Requesting Licensee in accordance with Schedule 8E.

1.4 For the avoidance of doubt, the end link for the End User's site for the TLLC Service shall not terminate at any premises not approved by SingTel for the purpose set out in clauses 1.1 to 1.3 including but not limited to cable stations, earth stations, SingTel exchanges, SingTel FM sites, manholes, MDF Rooms, rooms housing Distribution Points, Power Rooms, lead-in pipes, ducting, at any outdoor site, sites outside mainland Singapore or at any premises not owned by the Requesting Licensee or its End Users (**Excluded Sites**). The TLLC Service will not be provided in respect of any Excluded Sites.

- 1.5 The technical means of delivery (including routing) of the FLLC Service shall be at the sole discretion of SingTel, provided that the routing configuration shall be no less favourable than the routing which SingTel provides to its Customers.
- 1.6 This Schedule only applies to the Requesting Licensee if it is an FBO.
- 1.7 (a) The timeframes in this Schedule relating to pre-provisioning work to be undertaken by SingTel under clauses 2.3, 3.1 and 3.3 (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.
- 1.8 (a) If SingTel fails to meet any timeframes in this Schedule relating to provisioning work to be undertaken by SingTel under clause [4.1], 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.
- 1.9 For the avoidance of doubt, grooming or aggregation does not form part of the TLLC Service. Grooming and aggregation is the responsibility of the Requesting Licensee.

2. ORDERING AND PROVISIONING PROCEDURE

- 2.1 The Requesting Licensee shall submit a request for TLLC Service activation in the form of a TLLC Activation Request (**TLAR**) provided in Annex 7B-2 containing the following information:
- (a) the End User's name and address;

- (b) the bandwidth required for the TLLC;
- (c) the TLLC Service Co-location Site and name;
- (d) the TLLC Service Co-location Tie Cable pair identification (for n x 64Kbps, 2Mbps, 45Mbps or 155Mbps TLLC Bandwidth); and
- (e) the Requesting Licensee's contact details.

2.2 In accordance to Schedule 8E, the TLLC Service Co-location Tie Cable pair must be provisioned prior to the Requesting Licensee submitting the TLAR.

2.3 The TLAR must be provided to SingTel no less than thirty (30) Business Days prior to the requested date of activation for TLLC Service.

2.4 SingTel shall acknowledge the receipt of the TLAR by 5pm on the next Business Day after it is submitted by providing the Requesting Operator with a request identification number and the date for processing the TLAR (**Processing Date**).

2.5 For administrative reasons, SingTel will only process TLARs that are submitted at least sixty (60) Business Days before the expiry of either the TLLC Central Term or the TLLC Non-Central Term.

2.6 The TLARs from all Requesting Licensees will be processed on a "first come first served" basis subject to the total cumulative number of applications to be processed in clause 2.7.

2.7 The cumulative number of TLARs submitted under this Schedule 7B and FLARs submitted under Schedule 7A from all Requesting Licensees are:

- (a) five (5) requests from any Requesting Licensee shall be accepted on each Business Day, with subsequent requests overflowing to the next Business Day; and
- (b) twenty (20) requests from all Requesting Licensees shall be accepted each week, with subsequent requests overflowing to the next week.

3. **PROJECT STUDY**

3.1 SingTel will perform a Project Study in relation to the TLAR submitted by the Requesting Licensee within ten (10) Business Days after the Processing Date. The Project Study will normally entail a site survey to the End User's site to determine and

assess any technical and/or operational issues amongst other matters with respect to space, cable routing and equipment.

3.2 For the purposes of this Schedule and the processing of each TLAR, SingTel may have regard to the following when assessing the availability of the TLLC Service:

- (a) SingTel's reasonably anticipated requirements in the next two (2) years for the TLLC Service for the provision to itself and its Customers;
- (b) SingTel's reasonably anticipated requirements in the next two (2) years for the TLLC Service for operations and maintenance purposes;
- (c) the Requesting Licensee's and other Licensees' requirements (including for operations and maintenance purposes) which have been ordered but not yet delivered or which have been provided;
- (d) security and confidentiality requirements imposed on SingTel by Governmental Agencies; and
- (e) whether SingTel has plans or otherwise proposes to decommission the TLLC Service.

3.3 Following completion of the Project Study, SingTel will notify the Requesting Licensee that either:

- (a) the TLAR has been given in-principle approval (in which case SingTel will provide an estimated RFS Date and advise the type of connectors and the length of the associated cables referred to in clause 4.5 for the TLLC Service connection that is to be provisioned); or
- (b) the TLAR has been rejected.

3.4 SingTel may reject a TLAR if:

- (a) the TLAR is in respect of an Excluded Site;
- (b) the Requesting Licensee is not an FBO;
- (c) the TLAR is not in the prescribed form;
- (d) the TLAR does not contain all the required information;

- (e) if any work, operation or use by the Requesting Licensee in relation to the TLLC Service causes (or SingTel reasonably believes will cause) SingTel to incur additional costs beyond the normal provisioning of the TLLC Service;
- (f) SingTel reasonably determines that any geographical or technical limitations of the SingTel network or its delivery systems will not enable the TLLC Service to be activated at the time requested by the Requesting Licensee;
- (g) SingTel reasonably determines that it does not have any TLLC in the area which is the subject of the TLAR;
- (h) SingTel reasonably determines that it does not have available resources including, without limitation, availability of suitable network infrastructure;
- (i) the Requesting Licensee has not obtained access to the necessary Co-Location Sites for connection of the TLLC Service in accordance with Schedule 8E.

3.5 The Requesting Licensee acknowledges that a grant by SingTel of the in-principle approval under clause 3.3(a) is SingTel's best-estimate only and does not require SingTel to ensure that the TLLC Service will be available at the requested time stated in the TLAR.

3.6 If the Requesting Licensee cancels its request for TLLC Service prior to the completion of the Project Study undertaken in clause 3.3, the Requesting Licensee must pay SingTel the Application Charge in Schedule 9.

4. DELIVERY

4.1 If the Requesting Licensee requests termination of the TLLC Service after the completion of the Project Study, SingTel reserves the right to charge and the Requesting Licensee shall be liable to pay twice the Installation Charges as set out in Schedule 9, or such other amount as calculated by SingTel as necessary to cover the losses incurred by SingTel (including administrative costs) as a result of the Requesting Licensee's request for termination of the TLLC Service.

4.2 If the Requesting Licensee requests a deferment of the RFS Date after SingTel provides its in-principle approval in clause 3.3(a):

- (i) SingTel reserves the right to reject the RFS Date deferment request and in such an event, the TLLC ordered as specified in the TLAR shall be deemed cancelled and

the Requesting Licensee shall pay to SingTel the amounts of the cancellation charges set out in clause 4.1; or

- (ii) in the event that SingTel agrees to the request for deferment of the RFS Date:
 - A. the revised RFS Date shall be no more than thirty (30) Calendar Days from the RFS Date initially estimated and advised in clause 3.3(a) following completion of the Project Study. If the Requesting Licensee requests that the revised RFS Date be beyond the said thirty (30) Calendar Days, SingTel reserves the right to discontinue any installation work in relation to the affected TLLC and in such an event, the TLLC ordered as specified in the relevant TLAR shall be deemed terminated and the Requesting Licensee shall pay to SingTel the amounts as stated in clause 4.1; and
 - B. SingTel reserves the right to charge, and the Requesting Licensee shall be liable to pay, an additional RFS Date deferment fee equivalent to 50% of the Installation Charges set out in Schedule 9 (which shall be applied in addition to the installation charges).

4.3 Notwithstanding clause 4.2, SingTel will not consider any request for deferment of the RFS Date submitted by the Requesting Licensee on or after the date estimated as the RFS Date under clause 3.3(a) (or such other date as determined in accordance with clause 4.2(ii)(A)).

4.4 SingTel reserves the right to refuse to install or supply the TLLC Service if SingTel has any reason to believe that the end points do not conform with the Service as set out in clauses 1.1 to 1.4.

4.5 The Requesting Licensee shall be responsible for:

- (a) all terminations at its own equipment; and
- (b) 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 in accordance with Schedule 8E); and
- (c) patching and maintenance of its associated cables and patch cords to SingTel's network interface points (located at the Requesting Licensee's Customer site) and the associated cabling and connectors between the Requesting Licensee's equipment and SingTel's distribution frame.

4.6 SingTel shall be responsible for:

- (a) providing the distribution frame in connection with the routing of the Requesting Licensee's TLLC Service; and
- (b) the physical installation and termination of the Requesting Licensee's cabling to SingTel's distribution frame, in accordance with Schedule 8E.

5. TLLC RE-ROUTING, RE-LOCATION AND CHANGE OF BANDWIDTH

5.1 Subject to clause 5.2, SingTel reserves the right to, at any time, re-route the TLLC without prior notification given to the Requesting Licensee. SingTel will implement any re-routing on a non-discriminatory basis.

5.2 Where SingTel proposes to re-route the TLLC, SingTel will use its reasonable endeavours to provide prior notice of such re-routing to the Requesting Licensee.

5.3 If the Requesting Licensee makes a request for any TLLC Service to be relocated or a change of TLLC bandwidth, such request shall be deemed to be:

- (a) a request for the termination of that TLLC Service, in which event the Requesting Licensee shall be liable to pay to SingTel all recurring Charges in relation to that TLLC Service as specified in clause 11.3; and
- (b) a new request for TLLC Service at the new location and/or bandwidth requested, in which event that new request shall be subject to the ordering and provisioning procedures in clause 2.

6. DEACTIVATION

6.1 If the Requesting Licensee wishes to deactivate a TLLC Service under this Schedule, it must submit a request for TLLC deactivation in the form of a TLLC Service Deactivation Request (**TLDR**) provided in Annex 7B-3. The TLDR must be provided to SingTel no less than twenty five (25) Business Days prior to the requested date of deactivation of the TLLC Service.

6.2 SingTel shall process the TLDR and advise the Requesting Licensee of its acceptance or otherwise within five (5) Business Days of its receipt. SingTel may reject the TLDR if:

- (a) the request for TLLC Service deactivation is not in the prescribed form specified in this clause;

- (b) the TLDR does not contain all the required information;
 - (c) the TLDR is submitted less than twenty five (25) Business Days prior to the requested date of deactivation of the TLLC Service, as stated in the TLDR.
- 6.3 SingTel shall be entitled to levy and receive the processing charge specified in Schedule 9 for each TLDR that is rejected in accordance with clause 6.2.
- 6.4 If the Requesting Licensee requests deactivation of a TLLC Service during the Minimum Term (derived in accordance with clause 11.2) the Requesting Licensee shall remain liable for the recurring charges specified in Schedule 9 for that TLLC Service. Such liability for recurring charges in the event of deactivation shall commence from the date of deactivation (or partial deactivation as the case may be) for the remainder of the Minimum Term.

7. STANDARD TERMS AND CONDITIONS

- 7.1 SingTel is responsible for the maintenance and administration of the TLLC Service under this Schedule.
- 7.2 The Requesting Licensee must at its own expense:
- (a) procure and maintain any equipment or software needed to implement, receive and use the TLLC Service, unless SingTel expressly agrees otherwise in writing;
 - (b) follow the specifications for the TLLC Service as set out in Annex 7B-3 without modification;
 - (c) use its reasonable efforts to ensure that its equipment (and the services supplied and operated by it and used in connection with the TLLC Service) is fault-free, including conducting its own tests to detect any possible faults with such equipment and service it supplies and operates, before reporting any transmission malfunction to SingTel;
 - (d) be responsible for ensuring that its equipment complies with the standards adhered to by SingTel in its provision of the TLLC Service;
 - (e) raise fault reports to the SingTel representative in accordance to the Fault Restoration Procedures provided in Annex 7B-4 or otherwise as notified by SingTel;
 - (f) assume sole responsibility for liaising with End Users for all faults reported or enquiries raised by them, and shall not refer those End Users to SingTel (acknowledging that

SingTel assumes no responsibility for and will not interface nor liaise with the End Users);

- (g) ensure that all its equipment connected to or used in conjunction with TLLC Service is approved for use by the Authority and is connected or used in accordance with the law and shall obtain the prior written approval of SingTel before connecting (or permitting any person to connect) any equipment to any telecommunications system operated by SingTel or any SingTel Equipment, except where SingTel has dispensed with the requirement for such approval;
- (h) ensure that its equipment (other than SingTel equipment) used or installed by or for it in conjunction with the TLLC Service is compatible and may properly function and operate with all other equipment (including SingTel equipment) used or installed in connection with the TLLC Service;
- (i) carry out such additions, improvements, adjustments, modifications, alterations or replacements to its equipment (other than SingTel equipment) and software which is connected to any telecommunications system operated by SingTel to any SingTel equipment, as and when required by SingTel for the purpose of maintaining the quality or increasing the efficiency of the TLLC Service, or for efficient handling of the volume (or increased volume) of telecommunications traffic, or for any other purpose whatsoever;
- (j) provide and maintain, when so required by SingTel and under the operating conditions and specifications stipulated by SingTel to the Requesting Licensee, all facilities and resources whatsoever necessary for the proper installation, operation and maintenance of the TLLC Service and all SingTel equipment including, but not limited to, power points, electricity, conduits, pipes and appropriate access, licence, way-leave, or easement rights;
- (k) use and keep all SingTel equipment in good working condition (fair wear and tear excepted) in accordance with the specifications, guidelines and recommendations of the manufacturer or distributor thereof and of SingTel, and shall disconnect or cease to use any such equipment at the request of SingTel;
- (l) retain all SingTel equipment at all times in the custody and control of the Requesting Licensee at the sites occupied by the End User and the Requesting Licensee;
- (m) promptly comply with all notices, instructions or directions given by SingTel or the Authority in respect of the installation, use or operation of the TLLC Service, SingTel equipment and all relevant equipment;

- (n) pay to SingTel any charges, in the event that any personnel or contractor of SingTel is required to visit any site to inspect, test, repair, install, remove or replace any equipment used by the Requesting Licensee in connection with the TLLC Service, for each visit and/or for the work carried out by personnel or contractor of SingTel at any such premises for the purpose at such rate or in such amount and calculated in such manner as SingTel may determine at the time unless such visit is made to repair or replace any SingTel Equipment in discharge of any obligation by SingTel under any warranty given by SingTel to the Requesting Licensee with respect to that SingTel equipment;
- (o) ensure adequate preventive measures to avoid radiations and interferences that may disrupt other SingTel services; and
- (p) be fully responsible for and shall procure that the End User's comply with clauses 7.2(i), 7.2(j), 7.2(k) and 7.2(n) as set out above and shall indemnify SingTel for any loss or damages that it may suffer as a result of any breach, or default by the End User.

7.3 The Requesting Licensee shall not:

- (a) use the TLLC Service other than in accordance with the sole purpose set out in clauses 1.1 to 1.4. For the avoidance of doubt, the resale or otherwise re-supply of the TLLC Service "as is" by the Requesting Licensee to any Third Party is outside the scope of this sole purpose;
- (b) use SingTel's brand, name, logo, trademarks, service marks (whether registered or not) or the fact that the TLLC Service is provided using SingTel's network, in promoting or re-providing the Requesting Licensee's services or otherwise, or purport to own the network used to provide the FLLC Service;
- (c) use or permit the use of the TLLC Service or install, connect, link or use (or permit the installation, connection, linking or use) of any telecommunications equipment in contravention of any law or in any manner which would or is likely to cause any irritation, annoyance, embarrassment, harassment, disturbance or nuisance of any kind whatsoever to any person or which would disrupt the provision or operation of any telecommunications service by SingTel or other Licensees;
- (d) carry out or permit to be carried out any additions, improvements, adjustments, modifications, alterations or replacements to any SingTel equipment or equipment supplied by SingTel to the Requesting Licensee without the prior written consent of SingTel;

- (e) use or permit the TLLC Service or any telecommunications equipment to be used in any manner or for any activity whatsoever which generates or is likely to generate telecommunications traffic or usage which causes or is likely to cause congestion in or disruption to the provision or operation of any telecommunications service by SingTel or other Licensees, without the prior written consent of the SingTel; and
- (f) use any equipment supplied by SingTel for any purpose other than that for which such equipment was supplied.

7.4 If any work, operation or use by the Requesting Licensee in relation to the TLLC Service causes (or SingTel reasonably believes will cause) SingTel to incur additional costs beyond the normal provisioning of the TLLC Service, SingTel reserves the rights to advise the Requesting Licensee of such additional costs which would be incurred by SingTel in connection with such work, operation or use and if the Requesting Licensee decides to pursue such work, operation or use, the Requesting Licensee shall reimburse SingTel for such costs.

8. ACCESS AND APPROVALS REQUIRED

8.1 Where an end of the TLLC Service is to be or is located at an End User site, the Requesting Licensee must obtain the permission of the End User to allow SingTel to physically access the site and deal with the equipment. The Requesting Licensee must procure that the End User must:

- (a) provide SingTel with safe and reasonable access to the End User's premises as reasonably required to enable SingTel to install, test, inspect, repair, modify and maintain its equipment at the premises in connection with the provision of the TLLC Service; and
- (b) not permit any person other than a person reasonably identified as an authorised representative of SingTel to maintain, modify, repair or interfere with such equipment.

9. PROTECTION AND SAFETY

9.1 The Requesting Licensee is responsible for the safe operation of its equipment and shall be responsible for the safe operation of the TLLC Service and shall, so far as reasonably practicable, take all necessary steps to ensure that the TLLC Service use and its equipment:

- (a) does not endanger the safety of any person, including the employees, contractors, Customers or Third Party;

- (b) does not cause physical or technical harm to SingTel's Network, including but not limited to causing damage, interfering with or causing deterioration in the operation of SingTel's Network;
- (c) does not jeopardise the integrity or confidentiality of communications within SingTel's Network; or
- (d) does not threaten the security and accessibility of SingTel's Local Leased Circuits or the TLLC Service.

9.2 The Requesting Licensee must comply with SingTel's standard operating procedures in relation to the use of the TLLC Service, as amended by SingTel from time to time.

10. REQUESTING LICENSEE RIGHTS

10.1 The approval and provision of the TLLC Service does not vest in the Requesting Licensee any right, title or proprietary interest in any TLLC.

11. TERM

11.1 This Schedule commences on 20 July 2004 and shall continue until the expiry of:

- (a) eighteen (18) months from 20 July 2004 for all TLLC that terminate at a End User's site within the Central Zone as defined in Annex 7B-7 ("**TLLC Central Term**"); and
- (b) twenty-four (24) months from 20 July 2004 for all other TLLC not included in paragraph (a) ("**TLLC Non-Central Term**").

11.2 The Service shall commence on date activated by SingTel (**Commencement Date of Service**) and remains effective for the minimum period of one (1) year from the Commencement Date of Service (**TLLC Minimum Term**) or the expiry of the TLLC Central Term or TLLC Non-Central Term, which ever is the earlier.

11.3 If, for any reason, the Requesting Licensee purports to terminate a TLLC Service during the TLLC Minimum Term, the Requesting Licensee shall be liable to SingTel for the monthly recurring Charges specified in Schedule 9 from the date of such termination (or part thereof) for the remainder of the TLLC Minimum Term or until the expiry of the TLLC Central Term or TLLC Non-Central Term, which ever is the earlier.

11.4 The Parties acknowledge that the Authority may terminate SingTel's obligation to provide TLLC Services at any time and in particular on or before the expiry of the TLLC Central Term and/or TLLC Non-Central Term. Notwithstanding any provision in this Schedule 7B, in the event that the Authority modifies or removes the requirement on SingTel to provide the TLLC Service to the Requesting Licensee prior to the expiry of the TLLC Central Term and/or TLLC Non-Central Term, SingTel shall have the right, as the case may be, to:

- (a) modify the terms and conditions contained in this Schedule 7B for the supply of the TLLC Service; or
- (b) terminate the supply of the TLLC Service,

in compliance with the Authority's direction.

12. **SUSPENSION**

12.1 Subject to clause 12.2 of the main body of this RIO Agreement, SingTel may suspend the supply of the TLLC Service until further notice if:

- (a) in the reasonable opinion of SingTel, it is necessary to suspend the supply of the TLLC Service in order for SingTel to carry out repair or upgrading of any equipment or facility forming part of the TLLC; or
- (b) the TLLC Service 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 the SingTel Network.

13. **TERMINATION**

13.1 Subject to clause 13.2 of the main body of this RIO Agreement, SingTel may immediately terminate the supply of a TLLC Service if:

- (a) the Requesting Licensee uses the TLLC Service for a purpose other than that set out in clauses 1.1 to 1.4 or as prohibited under clause 7.3(a);
- (b) the Requesting Licensee is no longer an FBO;

- (c) the Requesting Licensee is in breach of this Schedule and such breach remains unremedied for a period of five (5) Business Days after receiving notice from SingTel to do so;
- (d) in SingTel's reasonable opinion, the Requesting Licensee is using the TLLC Service 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;
- (e) the Requesting Licensee uses the TLLC Service for a purpose other than that set out in clause 1.1, or as prohibited under clause 7.3(a);
- (f) the Requesting Licensee abandons the TLLC Service;
- (g) the TLLC has become unsafe or unsuitable for its purpose;
- (h) SingTel's right to own, maintain or operate the Local Leased Circuit or the TLLC Service is revoked or terminates or expires; or
- (i) use of the TLLC Service 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 the SingTel Network.

13.2 SingTel may give the Requesting Licensee no less than six (6) months notice at any time during the term of supply of the TLLC Service because of the closure of a SingTel Co-Location Site at which the TLLC Service terminates. The Requesting Licensee shall bear its own cost associated with the closure of the Co-Location Site and the termination of the supply of the TLLC Service, and the Requesting Licensee shall solely be responsible for making such alternative arrangements as are necessary to continue to provide its Customers with services. In the event that the Requesting Licensee requests assistance from SingTel, within thirty (30) Business Days after receiving notice under this clause, to provide an alternative solution to the TLLC Service which is being terminated, SingTel shall use its reasonable endeavours to assist the Requesting Licensee in finding suitable alternatives to the TLLC that is the subject of termination provided that nothing in this clause shall restrict SingTel's right to terminate under this clause 13 and that the ultimate responsibility to find an alternative lies with the Requesting Licensee.

13.3 If this Schedule in whole or in part is terminated or expires for any reason, or the RIO Agreement is terminated for any reason, any supply of the relevant TLLC Service is also terminated.

14. EXPIRY OF TERM

14.1 Upon expiry or termination of the TLLC Service:

- (a) the Requesting Licensee must discontinue the use of the TLLC Service;
- (b) SingTel shall disconnect the Requesting Licensee's connectors terminated at SingTel's distribution frame; and
- (c) the Requesting Licensee must disconnect the connectors terminated at its distribution frame and remove the associated cabling between the Requesting Licensee's equipment and SingTel's distribution frame,

each within ten (10) Business Days after the expiry or from the date of termination, whichever is the earlier.

14.2 If the Requesting Licensee fails to disconnect and remove the associated cabling and connectors between the Requesting Licensee's equipment and SingTel's distribution frame under clause 14.1, SingTel shall remove the Requesting Licensee's associated cabling and connectors. The Requesting Licensee shall pay to SingTel all reasonable costs associated with the work undertaken by SingTel including the disposal of the Requesting Licensee's associated cabling and connectors. In such event, the Requesting Licensee shall have no claim whatsoever against SingTel.

15. ASSIGNMENT

15.1 The Requesting Licensee must not assign its rights or obligations in respect of any TLLC Service under this Schedule.

ANNEX 7B-1 TLLC BANDWIDTH

The TLLC Service connects the End User's site to the Requesting Licensee's Co-located Equipment (such Co-Location obtained under Schedule 8E of the RIO Agreement) at SingTel's Exchange Building nearest to and serving the End User's site, for the following bandwidths:

1. 64 Kbps;
2. 128 Kbps;
3. 192 Kbps;
4. 256 Kbps;
5. 384 Kbps;
6. 512 Kbps;
7. 768 Kbps;
8. 1024 Kbps;
9. 1536 Kbps;
10. 1984 Kbps;
11. 2 Mbps;
12. 45 Mbps; and
13. 155 Mbps.

For the 64 Kbps and 128 Kbps bandwidth circuits, the charges for the network terminating equipment are not included in the listed monthly recurring charges and the one-time installation charges related to the Tail Local Leased Circuit in Schedule 9. The network terminating equipment will have to be separately purchased or leased from SingTel at the prices listed in Schedule 9 under Generic Components.



SingTel

TLLC Service Activation Request

Date: _____

Application Reference Number: _____

To: Manager, Network Integration and Interconnect
Fax: 65-6848 4113

1. Requesting Licensee Particulars

Name: _____

Signature: _____

Telephone: _____

Facsimile: _____

Company Stamp: _____

Billable Account No (For SingTel Use): _____

2. Requesting Licensee Contacts for Test/Maintenance

Name: _____

Telephone: _____

Facsimile: _____

3. Intended Activation Date: _____

4. A-End (Customer Location)

4.1 Customer Name: _____

4.2 Site address: _____

4.3 Postal Code: _____

4.4 Bandwidth: _____
(Please refer to Annex 7B-1 for the bandwidth required)

4.5 Equipment Type: _____

4.6 Equipment Interface Type: _____

4.7 NTU (applicable only for 64kbps and 128kbps)

Outright Purchase

Rental

TLLC Service Activation Request

Application Reference Number: _____

5. Tie -Cable Assignment (Tie-Cable identity or reference number installed under Schedule 8E)

n x 64 kbps Tie-Cable: _____

2 Mbps Tie-Cable: _____

Coaxial Tie-Cable: _____

6. SingTel's Reply to the Requesting Licensee Application returned – incomplete/illegible Not Approved Reason for Rejection: _____ Approved SingTel Approve Code: _____

RFS Date: _____

Circuit Reference Number: _____

Sign: _____

Contact Number: _____

Name: _____

Fax Number: _____

7. Processing Status

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



SingTel

TLLC Service Deactivation Request

Date: _____

Application Reference Number: _____

To: Manager, Network Integration and Interconnect
Fax: 65-6848 4113

1. Requesting Licensee Particulars

Name: _____

Signature: _____

Telephone: _____

Facsimile: _____

Company Stamp: _____

Billable Account No (For SingTel Use): _____

2. Requesting Licensee Contacts for Test/Maintenance

Name: _____

Telephone: _____

Facsimile: _____

3. Intended Deactivation Date: _____

4. A-End (Customer Location)

Circuit Reference Number:

4.1 Customer Name: _____

4.2 Site address: _____

4.3 Postal Code: _____

4.4 Bandwidth: _____
(Please refer to Annex 7B-1 for the bandwidth required)

4.5 Equipment Type: _____

4.6 Equipment Interface Type: _____

TLLC Service Deactivation Request

Application Reference Number: _____

5. Tie -Cable Assignment (Tie-Cable identity or reference number installed under Schedule 8E)

n x 64 kbps Tie-Cable: _____

2 Mbps Tie-Cable: _____

Coaxial Tie-Cable: _____

6. SingTel's Reply to the Requesting Licensee Application returned – incomplete/illegible Not Approved Reason for Rejection: _____ Approved SingTel Approve Code: _____

Deactivation Date: _____

Sign: _____

Contact Number: _____

Name: _____

Fax Number: _____

7. Processing Status

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

ANNEX 7B-4 TECHNICAL INFORMATION OF LOCAL LEASED CIRCUIT

1. The TLLC Service provided shall be based on the specifications listed in the table below. The Requesting Licensee must follow the specifications with no modifications permitted.
2. Interface standard will be as follows:

Speed	Interface Standard	Network Interface Point
N X 64 Kbps	V35	34-pin Winchester type connector. Other options subject to availability: X21, V24
2Mbps	G.703	120-ohm balanced, 4 wire twisted pair
45Mbps	G.703	75-ohm unbalanced, BNC coaxial
155Mbps	G.957/958 and G.707	1310nm, fibre Connector: SC-PC

ANNEX 7B-5 FAULT RESTORATION PROCEDURE FOR LOCAL LEASED CIRCUIT

1. COMMON FAULT DESCRIPTION

Fault Type	Description
High Loss	a) Termination Fault at Requesting Licensee’s End User Site b) Termination Fault at SingTel Telephone Exchange c) Termination Fault at Transmission/Fibre Node (Building MDF)
Transmission/ Fibre Discontinuity	a) Transmission/Fibre breaks at Requesting Licensee premise b) Transmission/Fibre breaks at SingTel Telephone Exchange c) Transmission/Fibre breaks at Fibre Node (Building MDF) d) Transmission/Fibre breaks outside building

Note: Termination Faults include but not limited to Connector fault, Patch-cord fault, Coupling problems, pigtails, etc.

2. AVERAGE SERVICE RESTORATION

Fault Description	Average Restoration Time	
	Office Hours	After Office Hours
High Loss	6 Hours	8 Hours
Transmission/ Fibre Discontinuity	8 Hours	12 Hours

3. CHECK LIST FOR FAULT REPORTING

Items	Description / Remarks
Identification of faulty segments	Fault report should identify the segment of the suspected Local Leased Circuit. Segment refers to the link between any two of the termination points at different locations.
Essential information	Circuit/Link reference, location, time of fault occurrence, etc.
High Loss Fault	To provide the Loss figure and the type of measurement.
Contact person	To provide contact person name and contact number for purpose of fault updates.
Access for SingTel staff	Security clearance for SingTel staff into Requesting Licensee's premises for the purpose of fault isolation.
Fault Management Centre (FMC)	Tel: 1800-7880022

Note: Fault Docket shall be issued upon fault reporting by the Requesting Licensee. Docket shall be the reference for all communication between Requesting Licensee and FMC.

4. FOUND NO FAULT

The Requesting Licensee shall compensate SingTel for the cost incurred in responding to a fault that is not caused by SingTel based on the Call Out Rates as provided in Schedule 9.

ANNEX 7B-6 DERIVATION OF ZONE

For the purpose of this Schedule, the derivation of Zone to determine whether an end is located in the Central Zone (CTR) or Non-Central Zone (NCTR) is by Postal Code's Sector Code (1st 2 digits of the 6-digit postal code or last 2 digits of the 4-digit postal code): -

Sector Code	Zone Code	Sector Code	Zone Code	Sector Code	Zone Code
03	CTR	01	NCTR	49	NCTR
04	CTR	02	NCTR	50	NCTR
05	CTR	12	NCTR	51	NCTR
06	CTR	19	NCTR	53	NCTR
07	CTR	20	NCTR	54	NCTR
08	CTR	21	NCTR	55	NCTR
09	CTR	25	NCTR	56	NCTR
10	CTR	26	NCTR	57	NCTR
11	CTR	28	NCTR	63	NCTR
13	CTR	29	NCTR	64	NCTR
14	CTR	30	NCTR	65	NCTR
15	CTR	31	NCTR	66	NCTR
16	CTR	32	NCTR	67	NCTR
17	CTR	33	NCTR	68	NCTR
18	CTR	34	NCTR	69	NCTR
22	CTR	35	NCTR	70	NCTR
23	CTR	36	NCTR	71	NCTR
24	CTR	37	NCTR	72	NCTR
27	CTR	38	NCTR	73	NCTR
		39	NCTR	74	NCTR
		40	NCTR	75	NCTR
		41	NCTR	76	NCTR
		42	NCTR	77	NCTR
		43	NCTR	78	NCTR
		44	NCTR	79	NCTR
		45	NCTR	80	NCTR
		46	NCTR	81	NCTR
		47	NCTR	82	NCTR
		48	NCTR	83	NCTR
		52	NCTR		
		58	NCTR		
		59	NCTR		
		60	NCTR		
		61	NCTR		
		62	NCTR		