

30 January 2012

Singapore Telecommunications Limited  
31 Exeter Road  
Comcentre #05-00  
Singapore 239732

Attention: Mr Sean Slattery  
Vice-President, Regulatory & Interconnect Strategy

Dear Sirs,

**DIRECTION OF THE INFO-COMMUNICATIONS DEVELOPMENT  
AUTHORITY OF SINGAPORE: REVIEW OF SINGAPORE  
TELECOMMUNICATIONS LIMITED'S REFERENCE INTERCONNECTION  
OFFER ("RIO")**

1. Pursuant to the Info-communications Development Authority of Singapore Act (Cap 137A), Section 27(1) of the Telecommunications Act (Cap 323) and Condition 34.1 of the Licence to Provide Facilities-Based Operations issued to Singapore Telecommunications Limited ("**SingTel**") on 1 April 1992, the Info-communications Development Authority of Singapore ("**IDA**") hereby issues this Direction to SingTel.
2. Please refer to the following documents:
  - (a) IDA's letter to SingTel, dated 22 June 2011, requiring SingTel to submit proposed modifications to its RIO for IDA's review, and the accompanying Explanatory Memorandum;
  - (b) the proposed revised RIO submitted by SingTel to IDA on 29 July 2011 ("**SingTel's Proposed Revised RIO**");
  - (c) IDA's direction to SingTel, dated 27 October 2011, requiring SingTel to submit further proposed modifications to SingTel's Proposed Revised RIO for IDA's review, and the accompanying Explanatory Memorandum ("**IDA's 27 October 2011 Direction**");
  - (d) SingTel's further proposed modifications to SingTel's Proposed Revised RIO, as submitted by SingTel to IDA on 2 December 2011 ("**SingTel's Further Proposed Revised RIO**"); and
  - (e) IDA's direction to SingTel, dated 3 January 2012, directing SingTel to incorporate specific drafting language to SingTel's Further Proposed Revised RIO ("**3 January 2012 Directed**

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**Amendments**"). IDA also stated in its direction that in light of the ongoing review of Schedules 8A, 8D and 9 of SingTel's Further Proposed Revised RIO, IDA would specify at a later time the effective date of SingTel's revised RIO as approved by IDA, following the completion of such review.

3. IDA has now completed its review of Schedules 8A, 8D and 9. While IDA found the majority of the proposed modifications to these Schedules to be in conformity with the requirements expressed in IDA's 27 October 2011 Direction, IDA also concluded that some proposed modifications failed to give full effect to the required modifications.
4. Accordingly, IDA directs SingTel to modify Schedules 8A, 8D and 9 of SingTel's Further Proposed Revised RIO to incorporate the specific drafting language set out in the enclosed **Appendices** comprising:
  - (i) Appendix 14 – Directed amendments to Schedule 8A;
  - (ii) Appendix 15 – Directed amendments to Schedule 8D; and
  - (iii) Appendix 16 – Directed amendments to Schedule 9;(together with the 3 January 2012 Directed Amendments, the "**Directed Amendments**").
5. The grounds for IDA's determination of the Directed Amendments are annotated in the accompanying **Appendices** to this Direction. In addition, IDA refers SingTel to the following elaboration on certain aspects of the Directed Amendments.

#### Proposed Heat Load Limit on Co-location Equipment

6. IDA has carefully reviewed SingTel's justifications relating to its proposal to impose a heat load limit of 900 watts per square metre for Co-location Equipment installed under Schedules 8A and 8D of the RIO. IDA has assessed and concluded that SingTel's proposal is reasonable, given the limitations of the associated facilities in SingTel's existing exchange buildings, and given that any higher heat load limit will likely entail necessary upgrades to such facilities. Nevertheless, should a Requesting Licensee wish to install Co-location Equipment that would exceed the said heat load limit, SingTel should review any such request and offer alternatives where practicable (e.g. advising the Requesting Licensee to take up more space).

#### Merger of Residential High Rise and Residential Landed Segments

7. IDA has in its review of the IRS prices, noted that there are increasing difficulties in obtaining data on network costs that are specifically attributable to the Residential Landed segment, as against the Residential High Rise segment. This is in part due to the changes to SingTel's underlying network and the consolidation of SingTel exchanges over the past years. In this regard, IDA assessed that the continued distinction of Residential High Rise and Residential Landed segments may not be appropriate given the limitations of representative underlying data. Therefore, IDA has merged the previous distinct Residential High Rise and Residential Landed segments in this review, together with the associated prices.
8. SingTel's Further Proposed Revised RIO incorporating the Directed Amendments is hereby approved by IDA and will take effect from the date of this Direction ("**Approved RIO**").
9. In connection with the above, IDA further directs SingTel to submit to IDA, the clean softcopy of Schedules 8A, 8D and 9 of its Approved RIO **within three (3) calendar days from the date hereof**. The softcopy submission must be in both Adobe PDF and Microsoft Word formats, and emailed to IDA\_ILO@ida.gov.sg. In submitting the Approved RIO to IDA, SingTel must make all necessary editorial corrections for typographical, cross referencing and pagination errors.
10. Any clarification required on this Direction must be made in writing, addressed to our Ms Aileen Chia (Deputy Director-General (Telecoms & Post)), and emailed to IDA\_ILO@ida.gov.sg. Please note that any query or clarification from SingTel shall not affect SingTel's obligation to comply fully with this Direction.

Yours faithfully



Leong Keng Thai  
Deputy Chief Executive Officer / Director-General (Telecoms & Post)