

2.1 GHZ SPECTRUM RIGHT (2022)

**GRANTED BY THE INFO-COMMUNICATIONS
MEDIA DEVELOPMENT AUTHORITY
UNDER REGULATION 6 OF THE TELECOMMUNICATIONS (RADIO-
COMMUNICATION) REGULATIONS
JOINTLY TO
M1 LIMITED AND STARHUB MOBILE PTE LTD
ON 1 JANUARY 2022
(REVISED ON 6 AUGUST 2024)**

PART I: THE 2.1 GHZ SPECTRUM RIGHT (2022)

1. Grant of 2.1 GHz Spectrum Right (2022)

- 1.1 The Info-communications Media Development Authority (hereinafter referred to as “IMDA”), in exercise of the powers conferred on it pursuant to Regulation 6 of the Telecommunications (Radio-communication) Regulations and the Telecommunications Act (Cap. 323) (hereinafter referred to as “the Act”) hereby grants to M1 Limited and StarHub Mobile Pte Ltd (each individually referred to as a “Grantee” and jointly referred to as the “Grantees”), subject to the conditions herein, the right to use the radio frequency spectrum which has been allocated to the Grantees by IMDA and which is more particularly described in Schedule A (hereinafter referred to as “the Assigned Radio Frequency Spectrum”) for the purposes of operating public cellular mobile telecommunication systems (hereinafter referred to as “the Systems”) for the provision of fifth-generation (hereinafter referred to as “5G”) telecommunication services, and other telecommunication services (if approved by IMDA), as specified in M1 Limited’s Facilities-Based Operations Licence dated 1 April 2000, renewed on 1 April 2017 and modified on 1 January 2022 and StarHub Mobile Pte Ltd’s Facilities-Based Operations Licence dated 5 May 1988, renewed on 1 April 2017 and modified on 1 January 2022 granted by IMDA to the Grantees pursuant to Section 5 of the Act (hereinafter referred to as the “2.1 GHz Spectrum Right (2022)”).
- 1.2 The Grantees acknowledge that this 2.1 GHz Spectrum Right (2022) was granted to the Grantees on the basis of allocation specified in the procedures and conditions of participation issued by the IMDA pursuant to Regulation 7 of the Telecommunications (Radio-communication) Regulations, and as amended or varied by IMDA from time to time (hereinafter referred to as the “Auction Rules”). The Grantees hereby represent and warrant that they have complied with the Auction Rules and have not been involved in any act or omission of any act, constituting a breach of the Auction Rules, and have met and satisfied all requirements as IMDA may determine pursuant to Regulation 8 of the Telecommunications (Radio-communication) Regulations.

- 1.3 The Grantees acknowledge and agree that in the event IMDA determines that the Grantees have breached any requirement specified within the Auction Rules, or used the Assigned Radio Frequency Spectrum for any purpose other than to operate the Systems for the provision of 5G and other telecommunication services (if approved by IMDA and as specified in the Grantees' FBO Licences referred to in Condition 1.1), IMDA shall be entitled to cancel or suspend this 2.1 GHz Spectrum Right (2022) or any part thereof, and/or impose a financial penalty, in accordance with Condition 17 of this 2.1 GHz Spectrum Right (2022). The Grantees further acknowledge and agree that IMDA may, in accordance with Condition 20 of this 2.1 GHz Spectrum Right (2022), resume this 2.1 GHz Spectrum Right (2022) in whole or in part.
- 1.4 Unless expressly provided otherwise, the Grantees shall be jointly and severally liable for the obligations set out in this 2.1 GHz Spectrum Right (2022) (including in the Schedules). For the avoidance of doubt, any non-performance, breach, or contravention by one Grantee shall not justify, release or excuse the liability of the other Grantee under this 2.1 GHz Spectrum Right (2022) to ensure that all of the obligations set out in this 2.1 GHz Spectrum Right (2022) are fulfilled.
- 1.5 Notwithstanding, IMDA may in its sole and absolute discretion take action against, release or compromise the liability of, or grant any additional time or other indulgence to only one of the Grantees, without affecting the liability or obligations of the other Grantee.
- 1.6 IMDA may take any decision or take any action (including any enforcement action) against either or both of the Grantees for a failure to comply with the obligations in this 2.1 GHz Spectrum Right (2022) pursuant to its powers under the Telecommunications (Radio-communication) Regulations, the Act and/or any other relevant laws, regulations, notices, and/or regulatory instruments (including codes of practice, and/or guidelines).

2. Duration of 2.1 GHz Spectrum Right (2022)

- 2.1 This 2.1 GHz Spectrum Right (2022) shall come into force on 1 January 2022, and shall be valid until 31 December 2036 unless suspended or cancelled by IMDA in accordance with Condition 17 or terminated in accordance with Condition 16.
- 2.2 This 2.1 GHz Spectrum Right (2022) may be extended or further renewed for such period as IMDA thinks fit and subject to such terms and conditions as may be specified by IMDA in its absolute discretion.

3. Geographic Area

- 3.1 The geographic area in which the Grantees are permitted to use the Assigned Radio Frequency Spectrum for the purposes of operating the Systems is for the whole island of Singapore (including MRT underground stations/lines and road tunnels), the offshore islands and the territorial waters up to 15 km from the coastline of the island of Singapore¹.

4. Payment for Grant of 2.1 GHz Spectrum Right (2022)

- 4.1 The Grantees shall pay to IMDA the amount(s) specified in Schedule B of this 2.1 GHz Spectrum Right (2022) by such mode or modes of payment as IMDA may determine, without set-off or counter-claim, on the date(s) specified therein, failing which IMDA shall be entitled to cancel or suspend this 2.1 GHz Spectrum Right (2022) or part thereof in accordance with Condition 17.

¹ Except where limitations in service coverage are due to technical requirements imposed by IMDA, such as to limit interference with neighbouring countries.

PART II: 2.1 GHZ SPECTRUM RIGHT (2022) REQUIREMENTS

5. Additional licences required

5.1 The Grantees shall not use the Assigned Radio Frequency Spectrum for the purposes of operating the Systems for the provision of 5G and other telecommunication services (if approved by IMDA) unless the Grantees each hold:

- (a) a valid and current licence issued pursuant to Section 5 of the Act for the establishment, installation, operation and maintenance of telecommunication systems and the provision of the telecommunication services thereunder; and
- (b) a valid and current licence issued pursuant to Regulation 23 and/or Regulation 28 of the Telecommunications (Radio-communication) Regulations, as the case may be, for the establishment, installation and operation of radio-communication stations and/or networks comprising the Systems.

PART III: OBLIGATIONS OF THE GRANTEES

6. Statutory Compliance

- 6.1 The Grantees shall observe and comply with the Act, the Info-communications Media Development Authority Act 2016 (No. 22 of 2016) (the “IMDA Act”), the Telecommunications (Radio-communication) Regulations, the International Telecommunications Convention and any other relevant treaty or convention to which Singapore is a party.
- 6.2 Nothing in this 2.1 GHz Spectrum Right (2022) shall be taken as discharging the Grantees from their obligation to obtain any other rights, licences, permits or approvals that may be required under any written law in force in Singapore.

7. International Obligations

- 7.1 The Grantees shall exercise its rights and powers and perform its duties and obligations under this 2.1 GHz Spectrum Right (2022) in a manner, which is not inconsistent with or derogates from the Government of Singapore's obligations under any relevant convention, agreement, arrangement or treaty to which Singapore is a party.
- 7.2 IMDA may notify the Grantees from time to time of any such convention, agreement, arrangement or treaty to which Condition 7.1 applies for its compliance.

8. Codes of Practice and Directions issued by IMDA

- 8.1 The Grantees shall comply with all relevant Codes of Practice issued by IMDA as well as any additional or supplemental guidelines, which IMDA may issue from time to time as may be applicable to the Grantee.
- 8.2 The Grantees shall strictly and without any undue delay comply with any and all directions, which IMDA may from time to time issue in exercise of its powers, functions or duties under the Act, the IMDA Act, the Telecommunications (Radio-communication) Regulations or this 2.1 GHz Spectrum Right (2022).
- 8.3 For the avoidance of doubt, a direction may be issued by IMDA:
- (a) to the Grantees jointly, in which case the Grantees shall be jointly and severally liable to comply with the direction; and/or

(b) to either of the Grantees on an individual basis.

8.4 IMDA may, by notice in writing to the Grantees, amend, vary or revoke wholly or in part any directions issued by it pursuant to Condition 8.2.

8.5 Unless otherwise expressly specified, the Grantees shall safeguard the secrecy of all directions issued by IMDA. The Grantees shall neither during the currency nor after the expiry, termination, suspension or cancellation of this 2.1 GHz Spectrum Right (2022) disclose, or aid or permit the disclosure of any of the said directions to any person not authorised to receive the same without the prior written consent of the Chief Executive Officer of IMDA (or such other similar title or position in IMDA's successor, heir or assign, as may be relevant and applicable). The Grantees shall further take all reasonable precautions in dealing with the said directions so as to prevent any unauthorised person from having access to the same.

9. Provision of Information to IMDA

9.1 The Grantees shall provide IMDA with any and all documents and/or information within its knowledge, custody or control that IMDA may by notice or direction require for the exercise of its powers, functions and duties under the Act, the IMDA Act, the Telecommunications (Radio-communication) Regulations, or in this 2.1 GHz Spectrum Right (2022).

9.2 In order to monitor the Grantees' compliance with the conditions of this 2.1 GHz Spectrum Right (2022), IMDA may also direct the Grantees to arrange at their own cost for a separate and independent audit of its activities. The Grantees shall, at IMDA's request, submit the audited accounts and reports prepared under this Condition 9 to IMDA for its inspection.

9.3 The Grantees shall, when expressly notified, keep in strict confidence any documents or information so required by IMDA pursuant to Condition 9.1 as well as the fact that IMDA has requested for such documents or information.

9.4 Subject to Condition 9.5, IMDA may use and disclose the documents and information required by IMDA pursuant to Condition 9.1 to such persons as IMDA deems fit.

9.5 Where IMDA proposes to disclose the documents and information obtained pursuant to Condition 9.1 and IMDA considers that the disclosure would result in the release of information concerning the business or commercial or financial affairs of the Grantees, which disclosure would or could reasonably

be expected to adversely affect the Grantees' lawful business or commercial or financial affairs, IMDA will give the Grantees a reasonable opportunity to make representations on the proposed disclosure before IMDA makes a final decision whether to disclose the information.

10. Ownership, Shareholding and Management Arrangements

- 10.1 The Grantees shall obtain IMDA's approval for the appointment of its Chairman, Board of Directors and Chief Executive Officer and shall provide IMDA with details of its ownership, shareholding and management arrangements.
- 10.2 Any change in the ownership, shareholding and management arrangements of the Grantees as provided pursuant to Condition 10.1 above (including but not limited to changes in the Chairman, Board of Directors or Chief Executive Officer) shall be submitted to IMDA for approval at least one (1) calendar month before such change is intended to be implemented.
- 10.3 IMDA may, after considering all relevant facts and circumstances, including but not limited to considerations in the public interest, IMDA's regulatory objectives and other relevant circumstances pertaining to the allocation of the Assigned Radio Frequency Spectrum to the Grantees, impose conditions for approving such change in the ownership, shareholding and management arrangements of the Grantees, which may include, without limitation, the Grantees' return of the whole or any part of the spectrum in the Assigned Radio Frequency Spectrum to IMDA.

11. Use of Radio Frequencies

- 11.1 The Grantees shall take all necessary steps to ensure that the use of the Assigned Radio Frequency Spectrum for the purposes of operating the Systems for the provision of 5G and other telecommunication services (if approved by IMDA) is safe and does not cause interference to the other existing radio-communication stations, networks and systems operating in the same area or radio frequency band or in other areas or radio frequency bands. The Grantees shall also take all appropriate measures to ensure that its Systems and the radio-communication stations and equipment comprised therein are adequately protected from interference that may be caused by radio-communication stations and networks operating in the same area or radio frequency band or in other areas or radio frequency bands.

- 11.2 The Grantees shall co-operate fully with and provide all necessary assistance to (including providing such information as may be requested by) IMDA for the purposes of co-ordinating and managing the use of radio frequencies in relation to neighbouring countries and within Singapore, including but not limited to the reduction of emission levels of any radio-communication stations comprised in the Systems.
- 11.3 Subject to the Act, the IMDA Act, the Telecommunications (Radio-communication) Regulations and this Condition 11, the use of any part of the Assigned Radio Frequency Spectrum for the purposes of managing interference (including the provisioning for a guard band(s)) shall be at the discretion of the Grantees.
- 11.4 The Grantees must provide fifty percent (50%) outdoor coverage, on the Assigned Radio Frequency Spectrum, based on standalone network architecture, by 31 December 2023.

12. Operation of the Systems, Radio-communication Stations and Equipment

- 12.1 The Grantees shall ensure that the Systems and the radio-communication stations and equipment comprised therein that are operated within the Assigned Radio Frequency Spectrum shall at all times comply with all applicable emission standards and technical specifications or requirements specified by IMDA, from time to time, in relation thereto.
- 12.2 The Grantees shall ensure that the Systems and the radio-communication stations and equipment comprised therein that are operated within the Assigned Radio Frequency Spectrum are not used for unlawful purposes or misused in any way.

PART IV: SPECTRUM TRADING AND SHARING

13. Spectrum Trading

- 13.1 The Grantees shall not assign, transfer, trade, deal with or otherwise dispose of the whole or any part of the rights, privileges, duties and/or obligations under this 2.1 GHz Spectrum Right (2022) to any person or persons:
- (a) except with the prior written approval of IMDA;
 - (b) except in accordance with the Act, the IMDA Act, the Telecommunications (Radio-communication) Regulations, any codes of practice relating to competition in the provision of telecommunication services, and the rules and procedures relating to spectrum trading published by IMDA from time to time; and
 - (c) unless the Grantees have used the Assigned Radio Frequency Spectrum to provide 5G telecommunication services coverage in accordance with Condition 11.4.
- 13.2 Any such written approval may be given subject to such conditions that IMDA may in its discretion impose.
- 13.3 No assignment, transfer, trading, dealing with or disposal of the whole or any part of the rights, privileges, duties and/or obligations under this 2.1 GHz Spectrum Right (2022) shall take effect until the conditions in Condition 13.1 are satisfied.
- 13.4 The Grantees shall, and shall procure that the other party to the assignment, transfer, trade, deal or disposal, give to IMDA such information about the assignment, transfer, trade, deal or disposal under Condition 13.1 as IMDA requires for the purpose of giving its approval (if any) under Condition 13.1(a).

14. Spectrum Sharing

- 14.1 The Grantees may, with IMDA's prior written approval and subject to such conditions as IMDA may in its discretion impose, enter into a commercial agreement with another person for the use of the Assigned Radio Frequency Spectrum, in accordance with the conditions of this 2.1 GHz Spectrum Right (2022), for the purpose of operating a station and/or network subject to that person obtaining the applicable station (spectrum) licence or network (spectrum) licence, as the case may be (hereinafter referred to as "Spectrum Sharing Agreement").
- 14.2 Without prejudice to Condition 14.1, the Grantees shall, where directed by IMDA, negotiate in good faith and in a commercially reasonable manner with such person as IMDA may direct for the purpose of entering into a Spectrum Sharing Agreement.
- 14.3 The Grantees shall, where required by IMDA, allow the shared use of the Assigned Radio Frequency Spectrum (or part thereof) with another operator for short term stipulated durations, such as national events or where such use is in the public interest, including the suspension and/or cessation of its operations during such events to enable such shared use.
- 14.4 The Grantees shall not authorise any person or persons (the "Authorised Person") to operate a radio-communication station and/or network within the Assigned Radio Frequency Spectrum except in accordance with the Act, the IMDA Act, the Telecommunications (Radio-communication) Regulations, and the rules and procedures relating to spectrum sharing published by IMDA from time to time.
- 14.5 The Grantees shall at all times remain liable for the acts, omissions, defaults and neglects of the Authorised Person as if they were the acts, omissions, defaults and neglects of the Grantees.

15. Conditions of Approval

- 15.1 Pursuant to Condition 13.2 and Condition 14.1 of this 2.1 GHz Spectrum Right (2022) IMDA may, after considering all relevant facts and circumstances, including but not limited to considerations in the public interest, IMDA's regulatory objectives and other relevant circumstances pertaining to the allocation of the Assigned Radio Frequency Spectrum to the Grantees, impose such conditions, which may include, without limitation, the Grantees' return of the whole or any part of the spectrum in the Assigned Radio Frequency Spectrum to IMDA.

PART V: TERMINATION, SUSPENSION, CANCELLATION, VARIATION AND RESUMPTION

16. Termination of 2.1 GHz Spectrum Right (2022)

16.1 In the event that the Grantees desire to terminate this 2.1 GHz Spectrum Right (2022), the Grantees must obtain IMDA's approval in writing at least six (6) months in advance.

16.2 No termination of this 2.1 GHz Spectrum Right (2022) shall take effect until IMDA's approval in writing is obtained under Condition 16.1.

17. Suspension and Cancellation of 2.1 GHz Spectrum Right (2022)

17.1 IMDA may suspend or cancel this 2.1 GHz Spectrum Right (2022) in whole or in part, and/or impose a financial penalty of such amount as IMDA thinks fit, in accordance with Regulation 16 of the Telecommunications (Radio-communication) Regulations.

18. Rights upon Termination, Suspension or Cancellation

18.1 Any termination, suspension or cancellation of this 2.1 GHz Spectrum Right (2022) shall be without prejudice to the rights and remedies which may accrue to the Grantees or IMDA under this 2.1 GHz Spectrum Right (2022) or any written law as at the date of termination, suspension or cancellation, except that the Grantees shall not have the right to seek compensation or refund of the 2.1 GHz Spectrum Right (2022) fee paid under Condition 4.1 or any other fee paid in advance, whether in whole or in part.

19. Variation of 2.1 GHz Spectrum Right (2022)

19.1 IMDA may vary the conditions of this 2.1 GHz Spectrum Right (2022) in accordance with the Telecommunications (Radio-communication) Regulations.

20. Resumption of 2.1 GHz Spectrum Right (2022)

20.1 IMDA may, in accordance with Regulations 17 and 18 of the Telecommunications (Radio-communication) Regulations, resume this 2.1 GHz Spectrum Right (2022) in whole or in part.

21. Exceptions and Limitations on Obligations

21.1 The Grantees shall not be held to have failed to comply with its obligations in this 2.1 GHz Spectrum Right (2022) if and to the extent that IMDA is satisfied that it is prevented from complying with those obligations for the following reasons: -

- (a) malfunction or failure of any equipment where IMDA determines that reasonable measures were taken beforehand to prevent such malfunction or failure;
- (b) the act or omission of any national authority, local authority or international organisation; or
- (c) any other factor, which, in the opinion of IMDA is beyond the Grantees' reasonable control and which notwithstanding the exercise by the Grantees of reasonable diligence and foresight, the Grantees were unable to prevent or overcome,

provided always that the Grantees shall use all reasonable endeavours to resolve with all reasonable speed the factor(s) preventing compliance of its obligations and shall resume complying with its obligations as soon as the factor(s) which prevented such compliance thereof is resolved.

PART VI: MISCELLANEOUS CONDITIONS

22. Governing Law

22.1 This 2.1 GHz Spectrum Right (2022) shall be governed by and construed according to the laws of Singapore.

23. Service of Notices

23.1 All notices under this 2.1 GHz Spectrum Right (2022) shall be in writing and shall be deemed to have been given if sent by hand or pre-paid post or by facsimile to the Grantees' registered addresses as lodged with the Accounting and Corporate Regulatory Authority or by electronic mail to the Grantees' electronic mail addresses as stated in its licence applications to IMDA, or such other electronic mail address as notified to IMDA from time to time.

24. Severability

24.1 Every condition and part thereof shall be construed as a separate and severable provision so that if any condition and/or part thereof is held invalid, unenforceable or illegal for any reason, the remainder of this 2.1 GHz Spectrum Right (2022) shall remain in full force in every respect.

Dated 6 AUGUST 2024



Aileen Chia
Director-General (Telecoms & Post)
Info-communications Media Development Authority

SCHEDULE OF INTERPRETATION

In this 2.1 GHz Spectrum Right (2022), unless the context otherwise requires:

- (a) Words importing the singular or plural shall be deemed to include the plural or singular respectively;
- (b) The titles to the provisions of this 2.1 GHz Spectrum Right (2022) are for convenience of reference only and are not part of this 2.1 GHz Spectrum Right (2022) and shall not in any way affect the interpretation thereof;
- (c) Any word or expression used in this 2.1 GHz Spectrum Right (2022) shall have the same meaning as it has in the Act;
- (d) Any reference in this 2.1 GHz Spectrum Right (2022) to the Act shall include any regulations made thereunder;
- (e) Any reference in this 2.1 GHz Spectrum Right (2022) to any regulations made under the Act shall include any regulations made under any predecessor legislation until such regulations are revoked or repealed by subsidiary legislation made under the Act;
- (f) Any reference in this 2.1 GHz Spectrum Right (2022) to a person shall be deemed to include both corporations and natural and legal persons;
- (g) Any reference to monetary amounts in this 2.1 GHz Spectrum Right (2022) shall be deemed to be denominated in Singapore Dollars; and
- (h) Any reference to any Codes, guidelines or other rules or documents promulgated by IMDA shall be read as reference to such as may be amended from time to time.

SCHEDULE A

ASSIGNMENT OF RADIO FREQUENCY SPECTRUM

1. The Assigned Radio Frequency Spectrum means the radio frequency band(s) consisting of the range of radio frequencies between the upper and lower frequency limits of the radio frequency bands specified in the table below:

LOWER BAND	
Lower Frequency Limit	Upper Frequency Limit
1,955 MHz	1,975 MHz

UPPER BAND	
Lower Frequency Limit	Upper Frequency Limit
2,145 MHz	2,165 MHz

SCHEDULE B

PAYMENT FOR THE GRANT OF 2.1 GHZ SPECTRUM RIGHT (2022)

Year	Payment Due Date	Payment Amounts Due ²
1 (Base Year)	27 December 2021	S\$46,500,000 ³ + S\$46,200 ⁴ + S\$1,800 ⁵ = S\$46,548,000
2	31 December 2022	S\$46,200
3	31 December 2023	S\$46,200
	6 August 2024	S\$10,337,196.56 ⁶
4	31 December 2024	S\$46,200 + S\$15,400 = S\$61,600
5	31 December 2025	S\$61,600
6	31 December 2026	S\$61,600
7	31 December 2027	S\$61,600
8	31 December 2028	S\$61,600
9	31 December 2029	S\$61,600
10	31 December 2030	S\$61,600
11	31 December 2031	S\$61,600
12	31 December 2032	S\$61,600
13	31 December 2033	S\$61,600
14	31 December 2034	S\$61,600
15	31 December 2035	S\$61,600

² Excluding the applicable GST.

³ Spectrum Lot Fee.

⁴ Annual frequency management fee.

⁵ Application and processing fee

⁶ Top-Up Amount paid by M1 Limited and received on 5 August 2024.