

**AUCTION OF
700 MHZ SPECTRUM RIGHTS (2016),
900 MHZ SPECTRUM RIGHTS (2016),
2.3 GHZ SPECTRUM RIGHTS (2016)
AND 2.5 GHZ SPECTRUM RIGHTS
(2016)**

**APPENDIX 1 – SPECIFIC FACILITIES-
BASED OPERATOR LICENCE
REQUIREMENTS FOR 4G AND/OR IMT-
ADVANCED TELECOMMUNICATION
SERVICES**

29 APRIL 2016

(UPDATED ON 14 JULY 2016)

INFO-COMMUNICATIONS DEVELOPMENT AUTHORITY
REPUBLIC OF SINGAPORE

SPECIFIC FACILITIES-BASED OPERATOR LICENCE REQUIREMENTS FOR 4G AND/OR IMT-ADVANCED TELECOMMUNICATION SERVICES

Defined terms used in this document shall have the meanings given to such terms in the Auction Rules, unless expressly specified otherwise.

- 1.1** Subject to Section 2.2.6 and/or Section 9.2.9 of the Auction Rules, a Winning Bidder represents that it has been notified of, and agrees to comply with the following requirements pertaining to the provision of 4G and/or IMT-Advanced telecommunication services pursuant to the grant of a 700 MHz Spectrum Right (2016) and/or a 900 MHz Spectrum Right (2016) and/or a 2.3 GHz Spectrum Right (2016) and/or a 2.5 GHz Spectrum Right (2016) in its Facilities-Based Operator (“**FBO**”) Licence:
- (a) to deploy 4G and/or IMT-Advanced telecommunication systems and provide 4G and/or IMT-Advanced telecommunication services using all or part of its assigned spectrum in the respective frequency band(s);
 - (b) to comply with the following timelines for the deployment of 4G and/or IMT-Advanced telecommunication systems and services:

For a Winning New Entrant Bidder:

Coverage requirements	Timeline
Nationwide outdoor service coverage ¹	By <u>30 September 2018</u> (i.e., 18 months after the commencement of the 900 MHz Spectrum Right (2016) and 2.3 GHz Spectrum Right (2016))
Road tunnels and in-building service coverage	By <u>30 September 2019</u> (i.e., 30 months after the commencement of the 900 MHz Spectrum Right (2016) and 2.3 GHz Spectrum Right (2016))
Underground MRT stations/ lines service coverage	By <u>30 September 2021</u> (i.e., 54 months after the commencement of the 900 MHz Spectrum Right (2016) and 2.3 GHz Spectrum Right (2016))

¹ The outdoor service coverage must extend to the whole island of Singapore (excluding MRT underground stations/lines and road tunnels), the offshore islands and the territorial waters up to 15km from the coast line of the island of Singapore, except where limitations in service coverage are due to technical requirements imposed by IDA, such as that to limit interference with neighbouring countries.

For a Winning Bidder that is not a Winning New Entrant Bidder:

Requirement	Timeline
Augment existing networks to provide nationwide 4G and/or IMT-Advanced services	By <u>31 December 2018</u> ² (i.e., 12 months from the commencement of the 700 MHz Spectrum Right (2016))

- (c) to negotiate in good faith to provide wholesale 4G and/or IMT-Advanced telecommunication services to a mobile virtual network operator (“**MVNO**”), upon receiving a request for such provision from a MVNO.

1.2 Subject to Section 2.2.6 and/or Section 9.2.9 of the Auction Rules, a Winning New Entrant Bidder represents that it has been notified of, and agrees to comply with the following requirements pertaining to the provision of 4G and/or IMT-Advanced telecommunication services pursuant to the grant of a 700 MHz Spectrum Right (2016) and/or a 900 MHz Spectrum Right (2016) and/or a 2.3 GHz Spectrum Right (2016) and/or a 2.5 GHz Spectrum Right (2016) in its FBO Licence:

- (a) to provide, as a minimum, a publicly available mobile voice telephony service which meets the requirements for level “8” and “9” telephone numbers, within the service scope and obligations under its FBO Licence(s). This includes the requirements to provide nationwide coverage³, free access to emergency services at all times, and uninterrupted, seamless call handover when moving from location to location at a speed of up to 100km/h;
- (b) to use the radio frequency spectrum as allocated to it by the grant of spectrum rights to provide 4G and/or IMT-Advanced and other telecommunication services (if approved by IDA) directly to that Winning New Entrant Bidder’s own retail customers as end users of the services;
- (c) shall not use the radio frequency spectrum as allocated to it by the grant of spectrum rights to provide any wholesale telecommunication service to any mobile operators who hold a facilities-based operator licence issued by IDA to operate public

² Should there be any delays to the availability of the 700 MHz band, IDA may, at its sole and absolute discretion, provide extension(s) to the aforementioned deadline to take into account the length of the delay.

³ Including the provision of coverage in MRT underground stations/lines and road tunnels. The relevant deadlines to provide such coverage are the deadlines to provide coverage of the Winning Bidder’s 4G and/or IMT-Advanced systems and services.

cellular mobile telecommunication systems, unless it has obtained prior written approval from IDA;

- (d) to pay for access to and use of infrastructure, for mobile deployment space, as IDA may require; and
- (e) shall ensure that the Winning New Entrant Bidder, its associates who can exercise significant influence over it and its key responsible persons (whether such persons are or will be employed) comply with the 'Fit and Proper Person Criteria' set out in Appendix 13 of the Auction Rules. In the event a key responsible person ceases to comply with the 'Fit and Proper Person Criteria' set out in Appendix 13 of the Auction Rules, the Winning New Entrant Bidder shall immediately inform IDA and remove the key responsible person from the Winning New Entrant Bidder's employ and/or require the key responsible person to cease all his involvement with the Winning New Entrant Bidder. Additionally, if the Winning New Entrant Bidder intends to replace the key responsible person, the Winning New Entrant Bidder shall seek and obtain IDA's prior written approval.