

**AUCTION OF
1800 MHZ SPECTRUM RIGHTS (2013)
AND 2.5 GHZ SPECTRUM RIGHTS
(2013)**

**APPENDIX 1 – SPECIFIC FACILITIES-
BASED OPERATOR LICENCE
REQUIREMENTS FOR 4G
TELECOMMUNICATION SERVICES**

26 APRIL 2013

(UPDATED 27 MAY 2013)

INFO-COMMUNICATIONS DEVELOPMENT AUTHORITY
REPUBLIC OF SINGAPORE

SPECIFIC FACILITIES-BASED OPERATOR LICENCE REQUIREMENTS FOR 4G TELECOMMUNICATION SERVICES

Defined terms used in the Expression of Interest Document and these Notes to the Expression of Interest 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 5.2.7 of the Auction Rules, a Winning Bidder represents that it has been notified of, and agreed to, comply with the following requirements pertaining to the provision of 4G telecommunication services pursuant to the grant of an 1800 MHz Spectrum Right (2013) and/or a 2.5 GHz Spectrum Right (2013) in its Facilities-Based Operator (“**FBO**”) Licence:

- (a) to deploy 4G telecommunication systems and provide 4G 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 nationwide 4G telecommunication systems and services:

For a Winning Bidder that is not a new entrant granted a New Entrant Spectrum Right:

Winning Bidder which has been allocated:	Nationwide coverage ¹ requirements (except MRT underground stations/lines and road tunnels)	Coverage requirements for MRT underground stations/lines and road tunnels
At least 2 x 15 MHz of spectrum in the 2.5 GHz bands	by <u>30 June 2016</u> (i.e., 12 months after the commencement of new spectrum rights in the 2.5 GHz band)	by <u>30 June 2018</u> (i.e., 36 months after the commencement of new spectrum rights in the 2.5 GHz band)
Any other combination of spectrum in the 1800	by <u>31 March 2018</u>	by <u>31 March 2020</u>

¹ The service coverage must extend to the whole island of Singapore (including 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.

MHz band and/or the 2.5 GHz band (E.g., spectrum in the 1800 MHz band only; or less than 2 x 15 MHz of spectrum in the 2.5 GHz band)	(i.e., 12 months after the commencement of new spectrum rights in the 1800 MHz band)	(i.e., 36 months after the commencement of new spectrum rights in the 1800 MHz band)
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For a Winning Bidder that is a New Entrant granted a New Entrant Spectrum Right:

	Nationwide coverage requirements (except MRT underground stations/lines and road tunnels)	Coverage requirements for MRT underground stations/lines and road tunnels
Timeline	by <u>30 June 2018</u> (i.e., 36 months after the commencement of new spectrum rights in the 2.5 GHz band)	by <u>30 June 2020</u> (i.e., 60 months after the commencement of new spectrum rights in the 2.5 GHz band)

- (c) to negotiate in good faith to provide wholesale 4G telecommunication services, upon receiving a reasonable request for such provision; and
- (d) for a Winning Bidder granted an 1800 MHz Spectrum Right (2013), 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 coverage², free access to emergency services, and uninterrupted, seamless call handover when moving from location to location at a speed of up to 100km/h. For avoidance of doubt, the Winning Bidder may satisfy this requirement using only a portion of the spectrum in

² 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 systems and services.

its 1800 MHz Spectrum Right (2013). It is also not required to satisfy this requirement through the use of 4G technologies only.