

TENDER PROCESS OF THE 800 AND 2600 MHz SPECTRUM BANDS IN GREECE EXECUTIVE SUMMARY

This is a summary of the terms and procedures of the 800 MHz and 2600 MHz spectrum bands tender in English language. A full version of the tender documents is available in Greek at EETT's website. In case of differences between this text and the Greek original, the Greek original shall prevail.

0.1. Rights of Use and Awarding procedure

The number of spectrum segments to be awarded in the 800 MHz and 2600 MHz bands, along with the reserved price per segment (please refer to section 1.4 of this document for details) are:

Table 1: The 800 MHz band spectrum segments	
Frequency Band 791 – 821 MHz paired with 832 – 862 MHz	
Right of Use for Radio Frequencies	Reserve Price
Six 2x5 MHz Spectrum segments in the bands 791–821 MHz and 832–862 MHz	€ 51.500.000,00
Table 2: The 2600 MHz band spectrum segments	
Frequency Band 2500 – 2570 MHz paired with 2620 – 2690 MHz	
Right of Use for Radio Frequencies	Reserve Price
Fourteen 2x5 MHz spectrum segments in the bands 2500 – 2570 MHz and 2620 – 2690 MHz	€ 4.700.000,00
Frequency Band 2575 – 2615 MHz	
Four 10 MHz spectrum segments in the band 2575–2615 MHz	€ 1.300.000,00

0.1.1. Duration of Rights of Use for Radio Frequencies

The duration of the rights of use for radio frequencies is 15 years.

0.1.2. Licensees' main rights and obligations

Spectrum rights of use for radio frequencies in the aforementioned bands entail the right of installation, operation and exploitation of terrestrial electronic communications network and the provision of electronic communications services to the public.

800 MHz band obligations

The rights holders of the 800 MHz band shall comply with the technical conditions set in the Commission Decision 2010/267/EU whereas the FDD duplex mode of operation shall be used, the in-block EIRP limit for base stations shall be 61 dBm/{5 MHz} that can be increased by (3) dB as long as there are no interference caused to other spectrum users especially to television broadcasting, and with respect to the out-of-block EIRP limits of base stations over frequencies below 790 MHz the case A of EIRP limits apply only within the geographical regions (allotments) where DTT¹ channels 58, 59 and 60 are being used. Furthermore, the 800 MHz rights holders shall take all necessary technical measures to protect the reception of DTT according to the procedures set out by EETT. These include a campaign to notify the viewers of DTT before the onset of the probable problems, the operation of a viewers' support call centre and the resolution of the interference problems by the 800 MHz rights

¹ Digital Terrestrial Television

holders. These tasks can be performed either by the rights holders independently or by a third party set out jointly by the rights holders for this purpose.

The rights holders of the 800 MHz band shall cover at least 95% of the population of Greece within five years from the onset of their license. Moreover, they shall provide broadband services of at least 10 Mbps in the down link direction within three years from the onset of their license and 30 Mbps in the down link direction within five years.

2600 MHz band obligations

The rights holders of the 2600 MHz band shall comply with the technical conditions set in the Commission Decision 2008/477/EC whereas the sub-bands 2500–2570 MHz and 2620–2690 MHz shall be used for FDD mode of operation and the sub-band 2575 – 2615 MHz shall be used for TDD mode of operation.

Furthermore, for the protection of the s-band (2700-2900 MHz) aeronautical radars operating in Greece, the rights holders of the 2600 MHz band, before installing and bringing into use any station in the 2600 MHz band within a radius of 120 km from a s-band radar site, shall calculate the communications signal and the out of band noise at the relevant s-band radar location. If these calculations show that the relevant threshold(s) will not be exceeded, as a result of the planned deployment, then the 2600 MHz band station deployment can go ahead. If the calculations show that the relevant threshold(s) would be exceeded, as a result of the planned deployment, then station deployment can go ahead only after the consent of the affected s-band radar operator. The protection thresholds are defined in the following Table.

	In-band signal	Out-of-band noise
	Spectral power density with 2500-2690 MHz (dBm/m ²)	Spectral power flux density within 2700-2900 MHz (dBm/MHz/m ²)
Radar protection threshold from a single base station	$-59 + 10 \cdot \log(BW_i/BW_{tot})$	$-127 + 10 \cdot \log(BW_i/BW_{tot})$
Maximum permitted impact from all sources operating within 2600 MHz band	-53	-121

Table 3 Protection thresholds for s-band radars

The rights holders of the 2600 MHz band shall provide broadband services of at least 10 Mbps in the down link direction within two years from the onset of their license and 30 Mbps in the down link direction within five years.

0.1.3. Pre-qualification

The main pre-qualification criteria of the Participants in the auction are:

(a) Submission of a complete Application

The application must comply with all the conditions presented in Chapter 5 of Tender Document. Failure to submit all necessary documents within the predetermined time period may result in the disqualification of the Applicant from the procedure.

(b) Certification of the adequacy of financial resources

A minimum amount of shares, or equity or net book value of fixed assets equal to fifty million Euro (€ **50.000.000,00**) will be required to prove the adequacy of the candidate's financial resources to deploy a wireless network and provide services in Greece.

(c) Submission of a Participation letter of Guarantee

0.1.4. Rules of the auction

The design of the auction is based on multiple rounds ascending with simultaneous separate bids for Spectrum Rights and will be conducted in two stages.

In the first stage the participants have the right to apply for the awarding of one spectrum segment (of bandwidth 2x5 MHz) of the 800 MHz band at the reserved price shown in table 1 above.

If the participants to the auction are up to three, then at the first stage of the auction, the spectrum segments are awarded according to the applications of the participants.

If the participants to the auction are more than three, then no spectrum segment is awarded at the first stage.

The second stage is based on Multiple Rounds Ascending with Simultaneous Separate Bids for Spectrum Rights

All bidders, to the extent that they are not current price bidders, may:

I. Submit a Bid for spectrum rights for which they are not the current price bidder. The bidder cannot bid for more than 2x15 MHz in total in the 800 MHz band and more than 70 MHz in total in 2600 MHz band. In case the participants are more than three, the spectrum cap in the 800MHz band is set to 2x10MHz.

II. Waive: A bidder may exercise a waiver right as an alternative to making a bid. Each bidder may exercise up to six (6) waiver rights during the auction.

III. Withdraw from the auction: A bidder who is not a current price bidder may formally withdraw from the auction. The current price bidder is not allowed to withdraw the bid which nominates him as the highest bidder.

0.1.5. Payment Terms

The final auction bid is paid as follows:

- Either 30% of the final auction bid to be deposited in a bank account specified by EETT, within ten (10) days following EETT's Decision announcing the successful bidders and the 70% of the final auction bid to be deposited in a bank account specified by EETT till the 28th of February 2015

or

- 30% of the final auction bid to be deposited in a bank account specified by EETT, within ten (10) days following EETT's Decision announcing the successful bidders. 40% of the auction bid has to be paid till the 28th of February 2015 and the remaining 30% in three (3) equal annual installments, adjusted by the twelve month Greek government treasury bill interest rate and increased by an additional 0.25 percentage basis points (0.25%). The first annual installment date is set on 28th February 2016.

0.1.6. Timetable

Publication of the Invitation to Tender	01/08/2014
Application submission for participating in the auction	15/09/2014
Announcement of the qualified participants	25/09/2014
Estimated completion of the process – announcement of successful bidders	16/10/2014