Spectrum Award Database

Description of dat

Date

# Introduction

The comma separated value (csv) files accompanied by this document contains data extracted from DotEcon’s Spectrum Award Database. In this document we describe the data provided.

Missing data is represented as “NA”.

# Lots file

Each row of data represents a spectrum assignment awarded in a particular award to a single winning bidder. Where several lots were awarded to the same winning bidder, this is often recorded using a separate row for each lot, with data pertaining to each lot. However, in some auctions (e.g. combinatorial auctions, or auctions where full results are not revealed), it is not possible to record the data on a lot-by-lot basis. In these cases, each row represents the spectrum won by a particular bidder, with data pertaining to the bidder’s overall winning package, which may include several lots from multiple spectrum bands.

|  |  |
| --- | --- |
| Field | Description |
| lotId | Unique identifier for each lot. |
| awardName | Name of the award |
| countryName | The name of the country holding the award. |
| alpha3code | The ISO 3166-1 alpha-3 code of the country holding the award. |
| licenceUse | Identify whether the spectrum award is to be used for “mobile”, “FWA”,  “mobile and FWA”, “mobile and other”, “neutral” or “other”.  Note Broadband wireless access (BWA) technologies fall into the same category as “FWA”. |
| awardClassDescription | High level description of type of award |
| date | End date of award |
| nBidders | The number of participating bidders in the auction |
| availableSpectrumPaired | The amount of paired spectrum in the award. |
| availableSpectrumUnpaired | The amount of unpaired spectrum in the award. |
| awardComments | Comments on the award that are not easily translated into database fields. |
| lotName | The name of the lot usually labelled in the IM. |
| winner | The name of the winner of the licence |
| currency | The currency of denomination of the amount paid. |
| freqBand | Generic frequency band that the licence’s frequency range might fall under such as 800MHz, 900MHz, 1800MHz, 2100MHz, and 2.6GHz etc. |
| nationalLicence | Dummy variable indicating whether a licence is national |
| region | The name of the region covered by the licence. |
| popCovered | Current population of the region covered by the licence. |
| blockFreq | The actual, specific frequency range of the licence (both downlink and uplink for paired spectrum) |
| paired | Total amount of paired spectrum in MHz of the licence |
| unpaired | Total amount of unpaired spectrum in MHz of the licence |
| licenceDuration | The term of the licence in years. This can be expressed as a decimal to reflect non-whole years. |
| reservePriceLocal | The reserve price of the licence in local currency. This would mostly be starting price in the auction. |
| headlinePriceLocal | The headline price of the licence in local currency, essentially the winning bid in the auction (this includes assignment bids) |
| entrantReserved | Dummy to indicate if bidding of the lot is closed to incumbents i.e. the lot is reserved for entrants |
| lotComments | Payment or licence conditions comments specific to a particular lot in an auction. Plus source of population figures for regional licences. |

# Payments file

The payments table lists the payment schedule of the licence fee of each licence.

|  |  |
| --- | --- |
| Field | Description |
| lotId | ID to identify licence for which payment is for |
| year | The year of the payment (year 0 is the upfront payment) |
| amount | The amount due for the specific payment period. |
| minAmount | The amount due for the specific period if the licence was awarded at reserve. |