The Frequency Channeling Plan for the Spectrum Bands
694-790 MHz and 790-862 MHz

General Notice 423 of 2016
(GG 6160)
came into force on date of publication: 28 October 2016

These regulations were made by the Board of the
Communications Regulatory Authority of Namibia.

These “regulations” refer to themselves internally as regulations, and they are identified as
regulations by the Communications Regulatory Authority of Namibia. However, they seem to differ
in form and style from other sets of regulations issued under the Communications Act 8 of 2009
and other laws. The format used here replicates the Government Gazette.

ARRANGEMENT OF REGULATIONS

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Proposed frequency arrangement for the 790-862 MHz spectrum band
Summary of the paired frequency arrangements in the band 694-862 MHz

[The numbering of paragraphs does not follow the usual format for regulations. Several of the
topics have multiple numbered paragraphs under a single heading. Thus, no numbers are
given in the ARRANGEMENT OF SECTIONS compiled above.]
1. The following principles have been considered to define the IMT frequency arrangement:
   
   (a) Spectrum efficiency and high level of flexibility in order to adapt to national circumstances as well as to meet the changing need and demand for capacity in time and geography;
   
   (b) Protection to broadcasting services below 694 MHz;
   
   (c) Use of a 5 MHz block approach which is in line with the foreseen mobile systems to be used in the 700 MHz and 800 MHz spectrum bands;
   
   (d) Facilitation of roaming and border coordination; and
   
   (e) No Digital Terrestrial Television (DTT) services are to be offered in the 694-790 MHz spectrum band.

2. Recommendation ITU-R M.1036-5 as approved by the ITU Radio Assembly provides as follows-
   
   “International Mobile Telecommunications (IMT) encompasses both IMT-2000 and IMT-Advanced collectively.


Definitions

1. In these regulations, a word or expression to which a meaning is assigned in the Act or the Regulations has the same meaning, and unless the context otherwise indicates

   “Act” means the Communications Act, 2009 (Act No. 8 of 2009)

   “IMT” means International Mobile Telecommunications

   “ITU” means International Telecommunications Union

   [This provision has virtually no punctuation. There should be, at a bare minimum, a colon or a dash after the word “minimum”, and a full stop at the end of the definition of “ITU”.

Purpose

2. These regulations set out the Frequency Channeling plan for the provision of IMT services in the spectrum bands 694-790 MHz and 790-890 MHz.

Frequency channeling arrangement for the 694-790 MHz spectrum band

3. The maximum inter-regional harmonisation is achieved by basing the frequency channeling arrangement on the lower duplexer of the APT 700 MHz band plan, as developed in the Asia Pacific Telecommunity and adopted in many parts of the world. This frequency arrangement was approved by the ITU Radio Assembly as contained in ITU-R M.1036-5 and is shown in Figure 1.
4. As graphically depicted above, the 2x 45 MHz FFD frequency channeling arrangement is implemented by using sub-blocks with a dual duplexer solution and conventional duplex arranged. Guard bands of 5MHz and 3MHz are provided at the lower and upper edge of the band to facilitated better co-existence with adjacent radio communications services.

**Proposed frequency arrangement for the 790-862 MHz spectrum band**

5. The frequency channeling arrangements for the spectrum band 790-862 MHz as approved by the ITU Radio Assembly and contained in ITU-R M.1036-5 is depicted below in figure 2 and figure 3.

**Summary of the paired frequency arrangements in the band 694-862 MHz**

8. The paired frequency channelling arrangements for IMT in the band 694-862 MHz is indicated in the table below.
## The Frequency Channeling Plan for the Spectrum Bands 694-790 MHz and 790-862 MHz

<table>
<thead>
<tr>
<th>Channel</th>
<th>Frequency Range</th>
<th>Number of Channels</th>
<th>Overall Bandwidth</th>
<th>Frequency Band</th>
<th>Status</th>
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<tbody>
<tr>
<td>A2</td>
<td>880-915</td>
<td>10</td>
<td>925-960</td>
<td>45</td>
<td>None</td>
</tr>
<tr>
<td>A3</td>
<td>832-862</td>
<td>11</td>
<td>791-821</td>
<td>41</td>
<td>None</td>
</tr>
<tr>
<td>A5</td>
<td>703-748</td>
<td>10</td>
<td>758-803</td>
<td>55</td>
<td>None</td>
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</tbody>
</table>