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|  | **Radiocommunication Study Groups** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| Source: Document 5A/TEMP/44 | **Annex 18 to****Document 5A/114-E** |
| **23 May 2016** |
| **English only** |
| Annex 18 to Working Party 5A Chairman’s Report |
| WORKING DOCUMENT TOWARDS A PRELIMINARY DRAFT NEW REPORT ITU-R M.[DLMSA] |
| Digital land mobile systems for specific applications |

# 1 Introduction

{TO BE DEVELOPED}

# 2 Scope

This Report deals with the technical and operational characteristics of digital systems that may provide capabilities required by specific user groups/applications, such as private mobile radio, public access mobile radio, utilities, e-Health, public protection and disaster relief, machine-to-machine communications, etc. These also include specialized vertical markets such as governmental, mining, health, hospitality, manufacturing, etc.

*Editor notes:*

*– Keep in mind to make appropriate references to other specific docs related to PPDR and Machine to Machine communications.*

*– It should be discussed further where the frequency bands and channel arrangements would be included, either in this PDNR or in a separate report.*

*– Make clear in the body of this PDNR that IMT is covered in other documents.*

# 3 General technical and operational considerations

**3.1** The use of the systems is conditioned to hold spectrum licenses according national legislations.

**3.2** The systems require using digital techniques and have better spectrum efficiency than existing private land mobile radios.

**3.3** The systems will be based on open standards for the benefit of end users.

{TO BE ENHANCED AND COMPLEMENTED}

# 4 Systems technical characteristics and operational features

{TO BE DEVELOPED}

# 5 Usual frequency bands

**5.1** Systems are intended to operate in the existing PLMR frequency bands such as: 148 to 174 MHz, 410 to 470 MHz subjected to national conditions.

{TO BE ENHANCED AND COMPLEMENTED}

# 6 Channelization

Channel raster should be compatible with existing channelization and must be technology inclusive.

{TO BE ENHANCED AND COMPLEMENTED}

# 7 Type approval requirements

**7.1** Systems need to be type approved prior commercialization.

{TO BE ENHANCED AND COMPLEMENTED}

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