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| APTlogogreen3 | ASIA-PACIFIC TELECOMMUNITY | **Document No.:** |
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Papua New Guinea

**QUESTIONNAIRE ON REGULATORY INFORMATION FOR IMPLEMENTATION IMT NETWORK IN ASIA-PACIFIC REGION**

**Question 1:**

**Institution/Company Information and Profile**

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My institution is (please choose) : Regulator / Operator / Vendor / Others <please describe your answer here>

**Question 2:**

Which IMT technology being use and will be used or technology neutral in these bands?

Please fill in the frequency bands used for IMT and specify which IMT technology (e.g. WCDMA, HSPA, LTE, LTE-A, TDD-LTE, 3GPP Release 10, …) being used, if not IMT please answer “non-IMT”.

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| --- | --- | --- | --- | --- |
| **Frequency band****(MHz)** | **Frequency Block (MHz)** | **Operator** | **IMT Technology** | **Channel bandwidth (MHz)** |
| **Uplink** | **Downlink** |
| 703 – 748 / 758 – 803 | 703 – 718 | 758 – 773 | Under Allocation | LTE | 10 |
| 718-733 | 773-788 | Digicel PNG | LTE | 10 |
| 733 - 748 | 788 - 803 | Telikom PNG  | LTE | 10 |
| 806 – 834 / 851 – 879 | 806 - 824 | 851- 869 | Under re-farming |  |  |
| 824 - 835 | 869 -880 | Telikom PNG | WCDMA | 5 |
|  |  |  |  |  |
| 880 – 915 / 925 – 960 | 880 – 899 | 925 – 944 | Digicel PNG  | Non-IMT (GSM)&WCDMA | 0.25 |
| 899 – 915 | 944 – 960 | Bemobile  | LTE | 10 |
| 880 – 899 | 925 – 944 | Digicel PNG  | Non-IMT (GSM)&WCDMA | 0.25 |
|  |  |  |  |  |
| 1710 – 1785 / 1805 –1880 | 1710 – 1740 | 1805 – 1835 | Digicel PNG | LTE | 20 |
| 1740 - 1760 | 1835 -1855 | Under Allocation | LTE | 20 |
| 1760 - 1785 | 1855 - 1880 | Telikom PNG | LTE | 20 |
| 1920-1980/ 2110-2170 | 1920-1940 | 2110-2130 | Under Allocation  | WCDMA | 5 |
| 1940-1950 | 2130-2140 | Bemobile  | WCDMA | 5 |
| 1950-1970 | 2140-2150 | Under Allocation | WCDMA | 5  |
|  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Question 3:**

Please provide (or refer to) characteristics, and protection criteria, for implementing the IMT systems/networks in Question 2, and similar information for non-IMT services, within the IMT band and in the neighboring bands.

**Answer:** No specific characteristics and protection criteria except for an optimum filter and general guard-band requirement to separate IMT Downlink on 800 MHz band edge and Non-IMT uplink in 900 MHz band.

**Question 4:**

Which case of coexistence as illustrated below and the technical conditions must be applied to each IMT block (e.g power limit, emission mask for spectrum block, pfd limit, …) to support technology neutrality and spectrum efficiency?

|  |  |  |
| --- | --- | --- |
| Frequency band (MHz) | Case | Technical condition |
| 703 – 748 / 758 – 803 | A | None |
| B |  |
| C |  |
| D | None |
| E | Separation distance under consideration |
| 806 – 834 / 851 – 879 | A | None |
| B |  |
| C | Compliant with Emission mask defined in ETSI EN 301 908 |
| D | None |
| E | Separation distance under consideration |
| 880 – 915 / 925 – 960 | A | None |
| B |  |
| C |  |
| D | Maximum separation required |
| E | Separation distance under consideration |
| 1710 – 1785 / 1805 –1880 | A | None |
| B | Compliant with Emission mask defined in ETSI EN 301 908 |
| C | Compliant with Emission mask defined in ETSI EN 301 908 |
| D | Maximum separation required |
| E | Non |
| 1920-1980/ 2110-2170 | A |  |
| B |  |
| C | Compliant with Emission mask defined in ETSI EN 301 908 |
| D | Maximum separation required |
| E | Non |
|  | A |  |
| B |  |
| C |  |
| D |  |
| E |  |



Case A: coexistence between IMT block and IMT in adjacent block in same IMT band

Case B: coexistence between IMT block and non-IMT in adjacent block in same IMT band

Case C: coexistence between IMT block in IMT band and non-IMT block in adjacent band

Case D: coexistence between IMT block and non-IMT block co-channel but adjacent geographical area

Case E: coexistence between IMT block and other IMT block co-channel but adjacent geographical area

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