



**OFFICE of the
REGULATOR**

**ITU & PIRRC Workshop on of Spectrum
Management and Harmonized use of
Spectrum Resource
Nadi, FIJI
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Introduction

- ▶ The current national frequency table prepared in light of the Samoa Telecommunications Act 2005 and is aligned with the outcomes to ensure that all frequency usage/assignment is in accordance with Global and regional harmonization.



SPECTRUM MANAGEMENT IN SAMOA



- ▶ Legal Framework
 - Frequency sharing
 - Frequency Planning and alloc.
 - Frequency Authorization
 - Universal access
 - Frequency License and usage Fees with eligibility for Fees Exemption
 - Short Range Devices
 - Frequency Monitoring

- ▶ Administrative Arrangements and organization.

CONSIDERATIONS ON DEVELOPMENT OF NATIONAL TABLE OF FREQUENCY ALLOCATIONS (NTFA)



- ▶ The current Telecommunications Law;
- ▶ The efficient use of radio frequency spectrum while accommodating all requirements of national spectrum users;
- ▶ The impact on existing licensees and users of radio frequency; and
- ▶ The applicable international conventions, standards and agreements concerning frequency spectrum including the management of radio frequency issues with neighbouring countries.
- ▶ Spectrum Policy, Guidelines or any other relevant secondary level legislations.

Objectives while developing NTFA



- ▶ A transparent, non-discriminatory approach to spectrum management
- ▶ Promote economic and societal benefits for all spectrum users through optimizing the value of scarce radio spectrum resources and ensure its efficient use through the utilization of market-based mechanisms including international tenders.
- ▶ Ensure public safety communications needs are met
- ▶ Ensure interoperability of all available communications technologies
- ▶ Support and promote innovation and competition
- ▶ Reduce regulatory barriers to radio frequency access
- ▶ Reserve appropriate spectrum for future innovative technologies
- ▶ To charge user fees for services that provide identifiable recipients with direct benefits beyond those received by the general public thereby promoting an equitable approach to financing government and regulatory programs.

Work flow to update Samoa NTFA



- ▶ Identifying the Legal requirements, from current Legal frameworks for Spectrum management in Samoa, for developing/updating the NTFA
- ▶ Review the current NTFA of Samoa along-with current assignment database, policies, channelization strategies and band planning for multiple services
- ▶ Analyse the outcomes of WRC-15 in and cross relate them with specific requirements of Samoa

NTFA for SAMOA



- ▶ **Definition of terms used in NTFA**

The terms and definitions are all in accordance with the Radio regulations edition 2016

- ▶ **Frequency allocation table for Samoa**

The table gives detailed service allocation from 8.3 kHz to 3000 GHz

- ▶ **Frequency allocation chart for Samoa**

The chart serves as a quick reference of service allocations from 8.3 kHz to 3000 GHz. However for detailed information on allocation of any band, reference should be made to Frequency Allocation or Channeling and band planning Strategies or their latest versions as applicable

- ▶ **Channeling and band planning Strategies**

Major Bands For PMR, Tetra, Cellular Mobile, Aeronautical Services

- ▶ **Bands for Short Range Devices (SRDs)**

Provides the details of the spot frequencies and RF bands used for various applications of SRDs

- ▶ **Frequencies for distress and safety communications for the Global Maritime Distress and Safety System (GMDSS)**

- ▶ **Principles of Frequency Assignment**

The document provide details of the principles guiding the frequency assignment process for Samoa

Reading the NFTA



- ▶ Services the names of which are printed in “capitals” (example: FIXED); these are called “primary” services.
- ▶ Services the names of which are printed in “normal characters” (example: Mobile); these are called “secondary” services.
- ▶ Additional remarks shall be printed in normal characters (example: MOBILE except aeronautical mobile).
- ▶ At instances the table may also contain a different allocation than those in the ITU RR Allocations table (Art. 5) basically these may be categorized as:
 - Additional allocation (adding more services)
 - Different (alternative) allocations (allocating to other different services instead)
 - Change categories to allocated services (different categories)

A designated footnote e.g. *5.319* number indicates the differences were accepted by the competent WRCs and included in the RR, they enjoy international recognition (*with the details of limitations/conditions are in the respective footnote*).

NFTA format



Frequency Bands

RR Region 3 Allocation with relevant footnote

Allocation in Samoa

(All footnotes mention in the left hand side column apply respectively)

Radio L

470 – 585 MHz FIXED BROADCASTING MOBILE 5.296A 5.291 5.298	FIXED BROADCASTING MOBILE	<ul style="list-style-type: none"> Broadcasting Radio Microphones (On tuning range basis) 	UHF CBRS in the band 476.400 – 477.425MHz in accordance with document No. TR603 UHF Television channels 28 to 34 in the band IV (526 – 606 MHz) using 8 MHz channel spacing
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