SPECTRUM MANAGEMENT POLICY & GUIDELINES

Prepared by the Office of the Regulator
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1. Introduction
The radio spectrum is a vital natural resource that countries should have control of and manage. The demand for the use of frequencies and the range of the services in Samoa for which spectrum is used has increased dramatically in recent years and is expected to continue to grow at a rapid pace. The most remarkable example of this rapid growth is the demand for wireless services with the growth of mobile telephony service not only in Samoa but worldwide. Also the number of broadcasting companies submitting applications for frequency authorizations to improve their coverage adds to this increasing usage. The Office of the Regulator is charged with the responsibility under the Telecommunications Act 2005 as amended, section 8 (1) h; ("Act") to establish a radio spectrum plan and manage radio spectrum allocated to the telecommunications sector. The purpose of such a plan would be to make sure that spectrum is available for these new applications and services. The Government of Samoa through the Office of the Regulator has taken steps to improve the Samoa Radio Spectrum Management Regime in order to provide the users with an incentive to use it effectively and efficiently. It is also important that the framework for spectrum management should keep pace with the technological changes in today's world.

2. Purpose
The purpose of this Policy is to set forth the policies and guidelines for the use of the radio spectrum in Samoa. The intent is to ensure that the principles of good spectrum management would be achieved in order to maximize the efficient use of radio spectrum and to ensure that spectrum is made available for new technologies and services, and that further flexibility is preserved to adapt to new market needs. It is also the intention of the OOTR to develop a fair and transparent process for the issuing of spectrum licenses. It is also the intention of the OOTR to make allocations and assignments based on marketplace demands and other relevant means. This Policy should also promote competition and to ensure that spectrum is available to provide important public benefits (i.e. safety and health).

3. Scope
This policy applies to all aspects of the Telecommunication Networks in Samoa who are users of the Spectrum whether on a primary or secondary basis. It includes all services using the spectrum whether for public, private, administrative, academic or commercial use.
4. Background Information

In Samoa, the management of the spectrum is based on the “Act” which provides the framework for radio spectrum management and recognises Samoa’s obligations to the worldwide radio communication community as a signatory to the International Telecommunication Union (ITU) Convention.

The Office of the Regulator is responsible for developing policies and goals for radio spectrum as a scarce resource, ensuring effective management of the radio frequency spectrum, encouraging development and operation of communications in the national interest, taking into account international implications.

Samoa’s radiocommunications sector includes but is not limited to the following:

- Commercial services, which include telecommunications (fixed as well as cellular).
- Broadcasting (radio and television)
- Police emergency services and other public safety and security providers;
- Short-range communications systems and low-power short-range technology,
- Aeronautical, maritime, land and satellite-based communication, meteorology.

4.1 Spectrum Management

The Policy addresses the general principles to be applied in the allocation and assignment of frequencies and further the associated Plan addresses the implementation mechanisms for these policies. It sets out the allocation of the frequency bands to the various types of services in Samoa. The allocations and the supply of the Spectrum are governed by the Recommendations of the International Telecommunication Union (ITU) and the World Radio Conferences (WRC). These allocations are based on the three ITU Regions, where Samoa and the Pacific are in Region 3.

There are basically four main areas of work involved in Spectrum Management. They are a) Planning b) Engineering c) Authorisation and d) Monitoring.

- **Spectrum Planning** is basically the allocation of the different parts of the frequency spectrum to specified uses in accordance with international agreements and standards, technical specifications and national priorities and policies.
- **Spectrum Authorisation** involves granting access under certain conditions to the spectrum resources by various types of radio communication equipments and the certification of radio operators. This is in accordance with the Telecommunications Act
2005, and it involves issuing licences to allow providers the use of specified spectrum resources.

- **Spectrum Engineering** involves the development of electromagnetic compatibility standards for equipment that is type approved. Type approval would cover compatibility and interoperability for emissions as well as susceptibility to radio frequencies.

- **Spectrum Monitoring and Compliance** involves the monitoring of the use of radio spectrum and the implementation of measures to control unauthorised use and unwanted interference.

### 4.2 How is the Spectrum Managed?

The Office of the Regulator has been given the authority under the Telecommunication Act 2005 “Act” to take responsibility over the managing of the Spectrum. The "Act" empowers the Regulator to develop a spectrum plan, and provides that use of spectrum shall comply with the Spectrum Management Plan which defines how the spectrum is to be used and the methodology for assignment and reallocation of the spectrum.

The Spectrum Management Plan sets out the allocation of frequency bands to the various types of services. It is therefore the first document that must be referred to in the planning and implementation of radiocommunications services in Samoa. Other documents may be prepared by the Office of the Regulator to supplement the conditions by which these services are deployed in order to promote efficient spectrum management in Samoa. Although the Office of the Regulator manages the electromagnetic spectrum, the overall management is coordinated on a global basis by the International Telecommunication Union (ITU) as publicized in their Recommendations on Radio communication Sector (ITU-R). The purpose of ITU-R is to ensure rational, equitable, efficient and economic use of the radio frequency spectrum by all radio communications services including satellite services.

In addition to activities approved by ITU, there are often bilateral and multilateral agreements by which the use of Spectrum is harmonized across national borders.

### 4.3 Regulatory Frameworks for Spectrum Management

A regulatory framework for radio spectrum policy is a pre-requisite in order that the use of radio spectrum is done in accordance with the recommendations from ITU and with the regulatory requirements of Samoa. The Office of the Regulator who is the Authority in Samoa to regulate the spectrum has to make decisions about the usage of the Spectrum and further the conditions for authorizing this use. The objective is to ensure
that the spectrum is used in an effective and efficient manner and is available to all. In order to ensure that the policy remains relevant and reflect technological advances, The OOTR will review this policy and other related documentation every three years.

5. Objectives and Guidelines

The OOTR is committed under its role mandated by “The Act” to manage the spectrum effectively and efficiently for the maximum benefit of not only the licensed operators but the people of Samoa. There are processes in place for issuing of spectrum licences and in the process including an open consultation process, whereby applicants must be able to demonstrate that they have the financial as well as technical capability to operate on these frequencies. It is also important that, subject to the nature of the licences which have been granted, that there is provision to allow for spectrum to be taken back where it is not being used, or where it is not being used efficiently. This is due to it being an important, limited and valuable natural resource. It is crucial that Samoa is not exposed to situations whereby people are “spectrum squatting”, and attempt to hoard available spectrum which they know will become valuable in coming months/years.

Policy Guideline 1: Radio Services

Frequency allocations will be made for emergency services such as health and welfare as well as for national security services, which are to be utilized in saving and protecting the lives of the public.

Policy Guideline 2: Frequency Sharing

OOTR will promote radio frequency spectrum sharing either on a primary or secondary\(^1\) basis while taking into account spectrum efficiency and operational requirements of services including harmful interference. These should be encouraged for all services using the spectrum.

Policy Guideline 3: Frequency Authorisation

OOTR shall establish/formulate radio frequency licences and issue them to all eligible companies/institutions/parties in accordance with the Telecommunications Act 2005. Frequency Authorisations shall be valid for a period of fifteen years to be renewed annually, an annual frequency usage fee shall be applicable. The assignment of radio frequencies and radio systems shall generally be conducted on first-come-first-served basis in accordance with established application processing procedures for bands where there is sufficient supply of spectrum. In special cases to be determined on a case by case basis.

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\(^1\) Primary and Secondary Services are defined in Policy 11 and Definitions on Page 15 & 16
case basis the OOTR may in consultation with parties agree to use other methods for allocation and assignment where the expected demand for the frequency exceeds the estimated available resources. The OOTR shall ensure that the frequencies and radio systems are put into use and brought into operation within the first six months of the specific period provided in the licences. If the operator fails to use the spectrum within this build out period, OOTR reserves the right to cancel the authorisation and return the frequency to the pool and make it available. The service provider or the end user is responsible for reporting any changes made to the authorised frequency if there is a change in the use rather than what is mentioned in the license. No user/provider shall use any frequency without authorisation by the Office of the Regulator.

**Policy Guideline 4: Universal Access**

OOTR shall reserve spectrum for deployment of wireless technologies in rural and other underserved areas and shall give incentives that may include differential pricing for spectrum for deployment of services in such areas. The providers of such services using frequencies shall make sure that the services that they provided as a result of using the frequency is part of their Universal Access commitment.

**Policy Guideline 5: Fees Exemption**

The 2.4 - 2.483 GHz, 5.150-5.350 GHz and 5.470-5.800 GHz are the designated fees – exempt radio frequency bands in Samoa. They do have restrictions on the amount of power they use. Other fees exempt radio spectrum may be designated by the OOTR and made known to the public. However all eligible users require license or general authorizations from the OOTR and their operations should be in conformity with the guidelines for the band. The users in these bands shall not claim protection from interference and shall not cause interference to other licensed users in other bands. This will explained in more details in the Policy Guideline 11.

**Policy Guidelines 6: Short Range Devices**

The short-range devices which are permitted for use in Samoa are those designed to operate over short ranges and at low power levels in accordance with ITU-R Recommendations and as well as other internationally recognised and industry-based standards. These devices shall have permission for terrestrial use only and shall operate on non-protection basis from other authorised services in the same or adjacent frequency bands and shall not cause harmful interference themselves. Examples of
these devices including, door and gates openers, alarms and movement detectors, close circuit television, remote controls etc.

**Policy Guideline 7: Temporary Frequency Assignments**

OOTR may authorise frequency assignments for radio communication systems on temporary basis and trial transmission on a new technology experiments. OOTR shall require the applicant to justify and demonstrate the viability of such trials and experiments before they are authorised to provide a service using that band for which permission is given for trials. The period of trial shall not exceed a period of three months and the results of the trial shall be made available to the OOTR. The OOTR may also authorise frequency assignments for temporary use provided the OOTR is satisfied with such application. The operator may then apply by writing to the Regulator requesting using the allocated frequency as a permanent assignment instead of temporary.

The OOTR may also authorise frequency assignments for temporary use for short term purposes and for major events such as international sporting event.

**Policy Guideline 8: Frequency Assignment Monitoring**

To ensure that the assigned frequencies are valued, used appropriately and brought into use in a timely manner, the OOTR shall use to the extent possible appropriate Spectrum Management and Monitoring systems/tools. In case of violation, the OOTR shall follow enforcement guidelines and license conditions, which shall include revocation of license and application of the penalty schedule as in Radio Regulations Policy.

**Policy Guideline 9: Frequency License and Usage Fees**

In accordance with the above considerations, the OOTR may review its fee structure from time to time. However in the occurrence of this, the OOTR may, as far as practicable, present justification for the review and give full notice to affected parties. All current fees are calculated based on Radio Spectrum Fees Regulations 2007.

**Policy Guideline 10: Unlicensed and Illegal Use of Spectrum**

The illegal use of the Spectrum will be subject to penalties under the Act.

**Policy Guideline 11: Harmful Interference**

Various applications of radio waves can interfere with each other and invalidate the benefits they offer if incorrectly designed or operated. To avoid such interference, each application requires some amount of radio frequency spectrum for exclusive use, unless special arrangements are made. These arrangements can include the preference of
operation using Primary and Secondary Services. This guideline specifies that Secondary User shall be responsible for any harmful interference that they cause due to their operations and will bear costs for the process to restore service to eliminate interference. The OOTR shall give this specification when issuing license for both Primary and Secondary System. In other words, all of the complexity of sharing is borne by the Secondary User. A spectrum-user may get permission to operate as a Secondary User from the Regulator, in which case the Regulator must establish rules that prevent harmful interference to the Primary System and these rules will be a part of the license condition. To protect the Primary System, secondary devices can either transmit at such low power that they never cause harmful interference to the primary, or they must transmit opportunistically when and only when they determine that transmissions will not cause harmful interference.

**Definitions of - Primary and Secondary Services**

**Primary Services** means those services that are given priority for services allocated in bands that are shared by more than one service;

**Secondary Services** means those services that cannot cause harmful interference or claim harmful interference from other services operating in Bands with shared services.

Where the Table indicates that a band is allocated to more than one service, either on a worldwide or regional basis, such services are listed in the following order:

a) Services printed in upper case letters only (example: FIXED) are referred to as “primary” services.

b) Services printed in normal characters or lower case letters (example: Mobile) are referred as “secondary” services.

It must be noted that the operation of primary services are prioritised. Operators of secondary services must ensure that no harmful interference is caused to any of the primary services. Furthermore, operators of secondary services cannot claim harmful interference from any of the primary services to which frequencies have been assigned or may be assigned to at a later date. Operators of secondary services may, however, claim protection from harmful interference caused by other secondary services.

**Policy Guideline 12: Mobile Radio Trunked System**

The whole point of using trunking system is to utilize efficiently the frequency spectrum, rather than assigning each user their own assigned frequency, multiple users can share
few frequencies. Any company operating a trunking system will be paying for the data frequency and all the frequencies used on the trunking system, the company deals with the end users. The end user should pay the company any cost of using the frequency. This cost should be subject to consultation initiated by the Company for the end users and OOTR. Company applying for Trunking system license should follow the following guidelines and procedures.

In addition to the standard application form, the applicant for a trunked radio system should provide the following information:

(a) Explanation for the need of the system, what is the purpose and need for the system
(b) Systems description, including technical and operational details.
(c) Number of channels required initially and a growth plan for the system in terms of expected number of channels, number of mobile or portable units to be served at the end of each year for a three year period after start of operation of the system.
(d) Implementation plans for the proposed system in terms of expected dates for start and completion of construction.
(e) Expected quality of service in terms of average waiting time or some other suitable parameter based on user traffic description.
(f) Information concerning existing systems authorized to the applicant in terms of number of channels, channel loading, area of operations and list of all end users and frequencies used (for existing system)
(g) For all fees involving this service should referred to Fees Regulations 2007.

Applications will be processed on a first-come-first-served basis depending on the availability of channels in the area for the proposed service.

**Policy Guideline 13 : 2.4 - 2.483 GHz, 5.150-5.350 GHz and 5.470-5.800 GHz**

The OOTR created the Policy on the use of Broadband Wireless Access (BWA) which set out the operational requirements for operating in this frequency band. The BWA Policy was created to allow other users to operate low powered short range devices, in the frequency band on a licence-exempt basis, whilst protecting the high powered BWA operation of the Internet Service Providers (ISPs) in these bands. However, in line with the Government’s aim to promote the expansion of a nationwide, all pervasive wireless access network for Internet access, the BWA Policy has been reviewed in accordance with international best practices and with the consultation of the telecommunications service providers and ISPs.
However, there shall be two categories of users, telecommunication service providers, including ISPs, operating at high power and other users including the general public operating at low power.

(i) This band shall be used for deployment of FBWA and Nomadic BWA (NBWA) applications including Radio Local Area Network (RLAN);

(ii) The operation of BWA applications including RLAN in this band shall be fee-exempt, with the following eligibility criteria:

- Only licensed telecommunications service providers, including Internet Service Providers (ISPs), shall be allowed to operate in this band under high power conditions for point-to-multipoint, with maximum Effective Isotropic Radiated Power (EIRP) of 4 W (36 dBm), and point-to-point, with maximum EIRP of 200 W (53 dBm).
- Other users shall operate in this band under low power conditions with maximum EIRP of 100 mW (20 dBm).

(iii) For operation of non BWA applications, users shall operate in this band on a licence-exempt basis, under low power conditions with maximum EIRP of 100 mW (20 dBm);

Policy Guideline 14: 700MHz Band

The OOTR would seek to be technology neutral in the use of the Band but recognizes that technology neutrality does not necessarily imply service neutrality and wishes to have this band used for Wireless Broadband Applications.

The 700 MHz band is currently used for analog television broadcasting; this is also called UHF TV Channels. The Office of the Regulator will decide on a migration plan for any current users once the Band has been designated for other purposes. This is expected to improve the spectral efficiency.

Proposed 700MHz Band Plan

In the 700 MHz band, the OOTR has defined a National Band Plan which is described in more detail in the following sections.

1.1.1 Public Safety Bands 763 - 775 MHz and 793-805 MHz

In the Plan, a total of 24 MHz is designated for public safety use. This 24 MHz block of spectrum is separated in two blocks of 12+12 MHz. In addition, OOTR adopts a
technology neutral approach in order to provide maximum flexibility for operators to choose the best system to meet their market requirements.

1.1.2 **Commercial Mobile Bands** 698–763 MHz and 776-793 MHz

The allocation is for commercial services and digital TV. The OOTR objective is to address the increasing demand for wireless access capacity.

**Licensing and Spectrum Fee**

The OOTR will assign 700 MHz radio frequency for provision of BWA services to be used for public telecommunication and broadcasting services, on a national basis. The authorization to use the radio frequency will be determined by the OOTR through auction or any other method. Spectrum fee would be in accordance with the spectrum fee regulations.

**Technical Specifications**

Operators using the 700 MHz band must adhere to and shall not exceed the maximum technical specifications identified below.

* Maximum Effective Radiated Power
  - Base Station – 30dBW
  - Fixed Mobile Station – 14.8dBW
  - Portable – 4.8dBW

**Policy Guideline 15: Frequency Planning and Allocation**

The use made of the spectrum has been based on frequency allocation principles, as given in the Table of Frequency Allocations of the Radio Regulations. *Allocation* means the distribution of a frequency band to a service for the purpose of using it. Some allocations are worldwide, other are regional, i.e. uniform throughout a particular region. Samoa is in ITU Region 3 and some of its allocation could be the same or similar with most countries in Region 3. The National Allocation Table can only be modified by the OOTR and this would be done in consultation with stakeholders. The Allocation Table will be reviewed, at a minimum, every five years. In addition the OOTR will also consider the following aspects.

a) The OOTR shall make an effort to open up any band within which interest has been indicated. However this will depend on:

i) Conformity with the national table of frequency allocations and recognition of the ITU of Frequency Allocation Table,
ii) Ensuring that usage in the Band does not cause harmful interference to other services in the same or other bands.

b) Consideration of all relevant spectrum management principles for frequency allocations/assignments.

c) Accommodating as many users as possible in a particular band provided there is no degradation of services or interference.

d) Consideration of current usage and exhaustion of allocated frequencies by any operator/company that requests additional frequencies in the same band where they already have assignments, such request shall only be considered and authorised after the applicants have demonstrated and justified full utilisation of the existing frequencies.

e) In the circumstance that a licensed operator/company is hoarding radio spectrum / not utilising the radio spectrum intentionally or not using the spectrum in accordance with the stipulated frequency conditions, the OOTR shall withdraw the frequencies. Refer to Frequency Allocation Table in Appendix 1

6. Implementation of the Policy

After consultation on the Policy, the Office of the Regulator will produce the final documentation to be sent to the stakeholders who are using and intended to use the Spectrum. It is expected that the implementation of this policy should be a responsibility of all parties involved. In order to provide a high level of service to the telecommunication community in Samoa, co-operation is required from all sectors of the telecommunication community in order to efficiently use the spectrum and minimize potential harmful interference.
APPENDIX 1 – FREQUENCY TABLE ALLOCATION PRELIMINARY INFORMATION

2.1 Definitions

In the Spectrum Plan, unless the contrary intention appears, the following definitions apply:

“Act” means Samoa Telecommunication Act 2005

“administration” means any Government department or service responsible for discharging the obligations specified in the Constitution of the International Telecommunication Union, the Convention of the International Telecommunication Union and in the Administrative Regulations and any other related conventions which have been adopted into Samoa’s legislation;

“aeronautical mobile-satellite service” means a mobile-satellite service in which a mobile earth station is located on board an aircraft or a survival craft, a life boat or life craft;

“aeronautical mobile service” means a mobile service between an aeronautical station and aircraft station, or between aircraft stations in which a survival craft station may participate or in which an emergency position indicating radio beacon may also participate on designated distress and emergency frequencies;

“aeronautical radionavigation service” means a radionavigation service intended for the benefit and for the safe operation of aircraft;

“amateur radio service” means a radio communications service in which a station is used for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons who are interested in radio technique solely with a personal aim and without any pecuniary interest;

“amateur-satellite service” means a radio communications service using a space station on earth satellites for the same purposes as those of the amateur radio service;

“broadcasting satellite service” means a radio communications service in which signals transmitted or re-transmitted by space stations are intended for direct reception by the general public or a section of the general public;

“broadcasting service” means a content applications service in which content is transmitted by means of radio communications and intended for direct reception by the general public or a section of the general public;
“coordinated universal time (UTC)” means a time scale, based on the second (SI), as defined in ITU-R Recommendation ²ITU-R TF. 460-4;

“cellular mobile service” means a mobile service between a cellular radio base station and cellular mobile access device;

“emergency position indicating radio beacon” means a radiolocation station, the emissions of which are intended to facilitate search and rescue operations;

“earth exploration-satellite service” means a radiocommunication service between earth stations and one or more space stations, which may include links between space stations, in which:

Information relating to the characteristics of the Earth and its natural phenomena, including data relating to the state of the environment, is obtained from active sensors or passive sensors on earth satellites, similar information is collected from air-borne or earth-based platforms, such information may be distributed to earth stations within the system concerned, platform interrogation may be included;

“fixed-satellite service” means a radiocommunications service between earth stations at a given position, and when one or more satellites are used, the given position may be a specified fixed point or any fixed point within a specified area and includes satellite-to-satellite links which may also be operated in the inter-satellite service and feeder links for other space services;

“fixed service” means a radiocommunications service between specified fixed points;

“harmful interference” means interference which endangers or seriously degrades, obstructs or repeatedly interrupts the functioning of a radionavigation service or one or more safety services operating in accordance with these Regulations;

“inter-satellite service” means a radiocommunications service providing links between artificial earth stations;

“industrial, scientific and medical (ISM) Applications” means operation of equipment or appliances designed to generate, and use locally, radiofrequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunications;

“land mobile satellite service” means a mobile satellite service in which mobile earth stations are located on land;

“maritime mobile service” means a mobile service between a coast station and a ship station, or between ship stations, or between associated on-board stations and includes a survival craft station and emergency position indicating radio beacon stations;
“maritime mobile-satellite service” means a mobile-satellite service in which mobile earth stations are located on board vessels and includes a survival craft station and emergency position indicating radio beacon stations;
“meteorological-satellite service” means an earth exploration-satellite service for meteorological purposes;
“mobile service” means a radio communications service between a mobile station and land station, or between mobile stations;
“mobile satellite service” means a radio communications service between mobile earth stations and one or more space stations; or between space stations used by this service; or between mobile earth stations by means of one or more space stations. This service may also include feeder links necessary for its operation.
“primary service” means those services that are given priority for services allocated in bands that are shared by more than one service;
“radio” means a general term applied to the use of radio waves;
“radio waves or Hertzian Waves” means electromagnetic waves of frequencies arbitrarily lower than 3000 GHz, propagated in space without artificial guides;
“radiocommunication” means communication by means of radio waves;
“radiocommunications services” means any radio communications-based network service;
“radiodetermination service” means a radio communications service for the purpose of radio determination;
“radiodetermination station” means a station used for the purpose of radio determination;
“radiolocation service” means a radio determination service used for the purpose of radiolocation;
“radionavigation service” means a service for the purpose of navigation including the purpose of announcing obstruction warnings;
“radio direction-finding” means radio determination using the reception of radio waves for the purpose of determining the direction of a station or object;
“radio astronomy” means astronomy based on the reception of radio waves of cosmic origin;
“radio astronomy service” means a radio communication service involving the use of radio astronomy.
“safety service” means any radiocommunications service where the permanent or temporary, with the ability to meet emergency relief communications requirements for the safeguarding of human life and/or property;
“secondary service” means those services that cannot cause harmful interference or claim harmful interference from other services operating in Bands with shared services.
“space service” means a radiocommunications service using a space station or any other stations located beyond, or intended to go beyond, or which has been beyond, the major portion of the Earth’s atmosphere;
“space radiocommunication” means any radiocommunication involving the use of one or more space stations or the use of one or more reflecting satellites or other objects in space;
“space operation service” means a radiocommunication service concerned exclusively with the operation of spacecraft, in particular space tracking, space telemetry and space telecommand;
“standard frequency and time signal service” means a radiocommunication service for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception;
“standard frequency and time signal-satellite service” means a radiocommunication service using space stations on earth satellites for the same purpose as those of the standard frequency and time signal service. This service may also include feeder links necessary for its operation;
“space research service” means a radiocommunication service in which spacecraft or other objects in space are used for scientific or technological research purposes;
## MF Band (300 - 3000 kHz)

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<td>25 670-26 100 MHz</td>
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## VHF Band (30 - 300 MHz)

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<td>68-74.8 MHz</td>
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<td>74.8-75.2 MHz</td>
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<td>75.2-75.4 MHz</td>
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<td>75.4-87MHz</td>
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<td>Interference from American Samoa 82-87MHz</td>
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<tr>
<td>88-108 MHz</td>
<td>BROADCASTING</td>
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Sound Broadcasting
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<td>108-117.975 MHz</td>
<td>AERONAUTICAL RADIONAVIGATION 5.197A</td>
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<td>117.975-137 MHz</td>
<td>AERONAUTICAL MOBILE (R) 5.111 5.198 5.199 5.200 5.203</td>
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<td>138 - 144 MHz</td>
<td>FIXED MOBILE Space research (space-to-Earth)</td>
<td>MOBILE Broadcasting</td>
<td>Band III Chn 5A 137 - 144 TV 3</td>
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<td>144-146 MHz</td>
<td>AMATEUR AMATEUR-SATELLITE</td>
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<td>146-148 MHz</td>
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<td>148.000-156MHz</td>
<td>FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.209 5.218 5.219</td>
<td>FIXED MOBILE</td>
<td>Land Mobile “EN” Band extensive nationwide use</td>
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<td>156.7625-156.8375 MHz</td>
<td>MARITIME MOBILE (distress and calling) 5.111 5.226</td>
<td>MARITIME MOBILE (distress and calling)</td>
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<td>156.8375-174 MHz</td>
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<td>158.0625-161.4875MHz</td>
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<td>162.5875-174MHz</td>
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<td>MOBILE</td>
<td>Land Mobile &quot;EE&quot; band Fixed &quot;EE&quot; band</td>
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<td>174-229.5 MHz</td>
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<td>230-251MHz</td>
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**UHF Band (300-3000MHz)**

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<td>312-315 MHz</td>
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<td>315-322 MHz</td>
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<td>322-328.6 MHz</td>
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<td>328.6-335.4 MHz</td>
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<td>335.4-387 MHz</td>
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<td>387-390 MHz</td>
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<td>390-399.9 MHz</td>
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<td>399.9-400.05 MHz</td>
<td>MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220</td>
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<td>400.05-400.15 MHz</td>
<td>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261</td>
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<td>400.15-401 MHz</td>
<td>METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.209 SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth) 5.264</td>
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<td>401-402 MHz</td>
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<td>402-403 MHz</td>
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<td>(Earth-to-space) METEOROLOGICAL-SATELLITE Fixed Mobile except aeronautical mobile</td>
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<td>403-406 MHz</td>
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<td>406.1-410 MHz</td>
<td>FIXED MOBILE</td>
<td>except aeronautical mobile RADIO ASTRONOMY</td>
<td>5.149 FIXED MOBILE Analog Land Mobile Trunked dispatch &quot;TD” Band Mobile Transmit 406.1-410 MHz Planned to become TD Mobile Transmit 410-412 MHz Planned for TD Simplex and simplex fixed services 412-414 MHz</td>
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<td>410-420 MHz</td>
<td>FIXED MOBILE</td>
<td>except aeronautical mobile SPACE RESEARCH (space-to-space)</td>
<td>5.268 FIXED MOBILE Discussion document Replanning the band 406.1-449 MHz POLDOC Spectrum Band Plan 003: 400</td>
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<td>420-430 MHz</td>
<td>FIXED MOBILE</td>
<td>except aeronautical mobile Radiolocation</td>
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<td>430-432 MHz</td>
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<td>RADIOLOCATION Amateur</td>
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<td>432-438 MHz</td>
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<td>Earth exploration-satellite (active)</td>
<td>5.279A 5.282</td>
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<td>440-450 MHz</td>
<td>FIXED MOBILE except aeronautical mobile Radiolocation 5.286</td>
<td>FIXED MOBILE except aeronautical mobile Radiolocation</td>
<td>Fixed &quot;JL&quot; band, providing migration spectrum for 1 band links. STLs accommodated in 444 - 445 MHz</td>
<td>POLDOC Spectrum Band Plan 003: 400 - 450 MHz Band Plan</td>
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<tr>
<td>450 - 458.3375MHz</td>
<td>FIXED MOBILE 5.209 5.286 5.286A</td>
<td>C Band Plan 455.312255 - 458.3375: MHz Land Mobile &quot;C&quot; Band base Transmit</td>
<td>VHF and UHF Mobile Service bands RFS: VHF/UHF Land Mobile Service (25 kHz channelling) RFS: VHF/UHF Land Mobile Service (12.5 kHz channelling)</td>
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<td>459-460 MHz</td>
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<td>Band D 458.6625-460.0125 MHz Fixed “JB” and “JNB” Band Beta Transmit (53 x 25 kHz two frequency channels interleaved with 108 x 12.5 kHz two frequency channels). 460.025-461.425 MHz Fixed “JD” Band Alpha Transmit (28 x 50 kHz Channels) 461.425-461.475 MHz Fixed “JE” Band (1 x 50 kHz single frequency channel)</td>
<td>Fixed Service Bands VHF and UHF Mobile Service bands RFS: VHF/UHF Land Mobile Service (25 kHz channeling) RFS: VHF/UHF Land Mobile Service (12.5 kHz channeling)</td>
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<td>458.3375-470 MHz</td>
<td>FIXED MOBILE Meteorological-Satellite (space-to-Earth) 5.287 5.289</td>
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<td>Fixed service bands</td>
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<td>470 - 890 MHz</td>
<td>FIXED MOBILE BROADCASTING</td>
<td>BROADCASTING</td>
<td>Fixed “KK” Band 806-857mhz Band V UHF TV sound and video Reserve for Digital</td>
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<td>890-942 MHz</td>
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<td>890 - 915 MHz</td>
<td>GSM Cellular Band Mobile TX</td>
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<td>915 - 935 MHz</td>
<td>Fixed &quot;K&quot; Band - Studio Transmitter Links</td>
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<td>New allocation to Aiga Fesilafai Radio</td>
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<td>942-960 MHz</td>
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<td>935 - 960 MHz</td>
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<td>1 164-1 215 MHz</td>
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<td>RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.328A</td>
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<td>1 215-1 240 MHz</td>
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<td>Frequency Range</td>
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<td>1 240-1 300 MHz</td>
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<td>RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)</td>
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<td>5.328B 5.329 5.329A</td>
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<td>1 300-1 350 MHz</td>
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<td>5.337 Radiolocation</td>
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<td>1 350-1 400 MHz</td>
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<td>5.340 5.341</td>
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<td>1 427-1 429 MHz</td>
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<td>1427-1429.5 MHz Fixed &quot;LL&quot; Band for narrow band high</td>
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<td>1 429-1 452 MHz</td>
<td>FIXED MOBILE 5.341 5.343 5.339A</td>
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<td>efficiency digital fixed links, alpha transmit</td>
<td>1429-1461.5 MHz Fixed “L” Band point to point linking Alpha Transmit</td>
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<td>1 452-1 492 MHz</td>
<td>FIXED MOBILE BROADCASTING 5.345 BROADCASTING SATELLITE 5.345 5.347A 5.341</td>
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<td>Fixed “L” Band point to point linking Alpha Transmit (continued)</td>
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<td>1 492-1 518 MHz</td>
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<td>Fixed “L” Band Beta Transmit</td>
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<td>1 518-1 525 MHz</td>
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<td>1 525-1 530 MHz</td>
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<td>1 530-1 535 MHz</td>
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<td>1 559-1 610 MHz</td>
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<td>1 610-1 610.6 MHz</td>
<td>MOBILE – SATELLITE (Earth-to-Space) 5.351A AERONAUTICAL RADIONAVIGATION Radiodetermination-satellite (Earth-to-Space) 5.341 5.364 5.366 5.367 5.368 5.372</td>
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<td>1 626.5-1 660 MHz</td>
<td>MOBILE-SATELLITE (Earth-to-Space) 5.351A, 5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376</td>
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<td>1 660-1 660.5 MHz</td>
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<td>1 660.5-1 668 MHz</td>
<td>RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379A</td>
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<td>1 668-1 668.4 GHz</td>
<td>MOBILE-SATELLITE (Earth-to-space) 5.348C 5.379B 5.379C</td>
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<td>1 668.4-1 670 MHz</td>
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<td>1 670-1 675 MHz</td>
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<td>1 675-1 690 MHz</td>
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<td>1 690 - 1 700 MHz</td>
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<td>1 700-1 710 MHz</td>
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<td>1 710-1 930 MHz</td>
<td>FIXED MOBILE 5.380 5.384A 5.388A 5.149 5.341 5.385 5.388</td>
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<td>1 930-1 970 MHz</td>
<td>FIXED MOBILE 5.388A 5.388</td>
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<tr>
<td>1 970-1 980 MHz</td>
<td>FIXED MOBILE 5.388A 5.388</td>
</tr>
<tr>
<td>1 980-2 010 MHz</td>
<td>FIXED MOBILE MOBILE-SATELLITE (Earth-tospace) 5.351A 5.388 5.389A 5.389B</td>
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<td>2010-2 025 MHz</td>
<td>FIXED MOBILE 5.388A 5.388</td>
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<tr>
<td>2 025-2 110 MHz</td>
<td>SPACE OPERATION (Earth-tospace) (space-to-space) EARTH EXPLORATIONSATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392</td>
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<tr>
<td>2 110-2 120 MHz</td>
<td>FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space) 5.388</td>
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<tr>
<td>2 120-2 160 MHz</td>
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<tr>
<td>2 160-2 170 MHz</td>
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<td>2 170-2 200 MHz</td>
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<td>2 200-2 290 MHz</td>
<td>SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATIONSATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392</td>
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<td>2 290-2 300 MHz</td>
<td>FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)</td>
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<td>2 300-2 450 MHz</td>
<td>FIXED MOBILE RADIOLOCATION Amateur 5.150 5.282 5.396</td>
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<tr>
<td>2 450-2 483.5 MHz</td>
<td>FIXED MOBILE RADIOLOCATION 5.150</td>
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<td>ITU Allocation for Region 3</td>
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<tr>
<td>2 483.5-2 500 MHz</td>
<td>FIXED MOBILE MOBILE-SATELLITE (Space-to-Earth) RADIOLOCATION Radiodetermination-satellite (space to-Earth) 5.398 5.150 5.402</td>
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<td>2 500-2 520 MHz</td>
<td>FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403 5.404 5.407 5.414 5.415A</td>
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<tr>
<td>2 520-2 535 MHz</td>
<td>FIXED S5.409 S5.411 FIXED-SATELLITE (space-to-Earth) S5.415 MOBILE except aeronautical mobile S5.384A BROADCASTING-SATELLITE S5.413 S5.416 S5.403 S5.415A</td>
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<td>2 535-2 655 MHz</td>
<td>FIXED S5.409 S5.411 MOBILE except aeronautical mobile S5.384A BROADCASTING-SATELLITE S5.413 S5.416 S5.339 S5.418 S5.418A S5.418B S5.418C</td>
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<td>2 655-2 670 MHz</td>
<td>FIXED S5.409 S5.411 FIXED-SATELLITE (Earth-to-space)</td>
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<td>Frequency Range</td>
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<td>2 690-2 700 MHz</td>
<td>EARTH EXPLORATIONSATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340</td>
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<tr>
<td>2 700-2 900 MHz</td>
<td>AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423 AERONAUTICAL RADIONAVIGATION</td>
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Expansion of 4th Generation Cellular services.

2700-2900 Fixed “OX” band Itinerant fixed linking for Television outside broadcast operations PIB 37 Linking for Television Outside broadcast
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<tr>
<td>2 900-3 100 MHz</td>
<td>RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427</td>
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<td>3 100-3 300 MHz</td>
<td>RADIOLOCATION Earth exploration-satellite (active) Space research (active)</td>
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<td>3 300-3 400 MHz</td>
<td>RADIOLOCATION Amateur 5.149</td>
<td>Amateur</td>
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<td>3 400-3 500 MHz</td>
<td>FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile Radiolocation 5.433 5.282</td>
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<td>3400 - 3800MHz Reserved for Wireless Broadband Spectrum Wireless Broadband Spectrum in Samoa</td>
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<tr>
<td>3 500-3 700 MHz</td>
<td>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433</td>
<td>FIXED-SATELLITE Space-to-Earth)</td>
<td>3600 - 4200 MHz Fixed 'P' band - usage must be co-ordinated with C' band Satellite services.</td>
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<tr>
<td>3 700-4 200 MHz</td>
<td>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile</td>
<td>FIXED FIXED-SATELLITE (space-to-Earth)</td>
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<td>4 200-4 400 MHz</td>
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<tr>
<td>4 400-4 500 MHz</td>
<td>FIXED MOBILE</td>
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<td>4 500-4 800 MHz</td>
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<td>4 800-4 990 MHz</td>
<td>FIXED MOBILE 5.442 Radio astronomy 5.149 5.339</td>
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<td>4 990-5 000 MHz</td>
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<td>5 000-5 010 MHz</td>
<td>AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.367</td>
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<td>5 010-5 030 MHz</td>
<td>AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) (space-to-space) 5.328B 5.443B 5.367</td>
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<td>5 030-5 150 MHz</td>
<td>AERONAUTICAL RADIONAVIGATION 5.367 5.444 5.444A</td>
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<td>5 150-5 250 MHz</td>
<td>AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.447B 5.447C</td>
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<td>5 250-5 255 MHz</td>
<td>EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.448A</td>
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<td>5 255-5 350 MHz</td>
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<td>5 350-5 460 MHz</td>
<td>EARTH EXPLORATIONSATELLITE (active) 5.448B SPACE RESEARCH (active) 5.448C</td>
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<td>5 460-5 470 MHz</td>
<td>RADIONAVIGATION 5.449 EARTH EXPLORATIONSATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B</td>
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<td>5 470-5 570 MHz</td>
<td>MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATIONSATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B 5.452</td>
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<td>5 570-5 650 MHz</td>
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<td>5 650-5 725 MHz</td>
<td>RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space research (deep space)</td>
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<td>5-5.282 MHz</td>
<td>RADIOLOCATION Amateur</td>
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<td>5.725-5.830 MHz</td>
<td>Amateur-satellite (space-to-Earth) 5.150</td>
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<td>5.830-5.850 MHz</td>
<td>Fixed-SATELLITE (Earth-to-space) MOBILE Radiolocation 5.150</td>
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<td>5.925-6.700 MHz</td>
<td>Fixed-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.149 5.440 5.458</td>
<td>FIXED-SATELLITE (Earth-to-space)</td>
<td>5925 - 6420 MHz Fixed “R” band 5925 - 6700 MHz Fixed Satellite Service “C” band uplinks (INMARSAT) 6420 - 7100 MHz Fixed ‘T’ band</td>
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<td>6.700-7.075 MHz</td>
<td>Fixed-SATELLITE (space-to-Earth) 5.441 MOBILE 5.458 5.458A 5.458B 5.458C</td>
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<td>7.075-7.250 MHz</td>
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<td>7250-7300 MHz</td>
<td>FIXED SATELLITE (space-to-Earth)</td>
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<td>MOBILE except aeronautical mobile</td>
<td>S5.461</td>
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<td>7300-7450 MHz</td>
<td>FIXED SATELLITE (space-to-Earth)</td>
<td>FIXED SATELLITE</td>
<td>FIXED</td>
<td>Band utilised for point to point</td>
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<td>MOBILE except aeronautical mobile S5.461</td>
<td>S5.461</td>
<td>linking and itinerant TV outside broadcasting.</td>
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<td>7450-7550 MHz</td>
<td>FIXED SATELLITE (space-to-Earth)</td>
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<td>METEOROLOGICAL SATELLITE (space-to-Earth)</td>
<td>S5.461A</td>
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<td>7750-7850 MHz</td>
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<td>METEOROLOGICAL SATELLITE (space-to-Earth)</td>
<td>S5.461B</td>
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<td>7730 - 8290 MHz Fixed “W” Band</td>
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<td>for point to point linking</td>
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<td>7850-7900 MHz</td>
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<td>7900-8025 MHz</td>
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<td>MOBILE 5.461</td>
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<td>8175-8215 MHz</td>
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<td>8 215-8 400 MHz</td>
<td>EARTH EXPLORATIONSATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A</td>
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<td>8290 - 8500 MHz Fixed “Y” band utilised for point to point linking</td>
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<td>8 400-8 500 MHz</td>
<td>FIXED MOBILE except aeronautical mobile SPACE RESEARCH (Space-to-Earth)5.465</td>
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<td>8290 - 8500 MHz Fixed “Y” band utilised for point to point linking</td>
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<td>8 500-8 550 MHz</td>
<td>RADIOLOCATION</td>
<td>RADIOLOCATION</td>
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<td>8 550-8 650 MHz</td>
<td>EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A</td>
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<td>10-10.45 GHz</td>
<td>FIXED MOBILE RADIOLOCATION</td>
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<td>10.5-10.55 GHz</td>
<td>Amateur 5.479</td>
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<td>10.55-10.6 GHz</td>
<td>FIXED MOBILE except aeronautical mobile Radiolocation</td>
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<td>Fixed “H” Band used for point to point linking</td>
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<td>10.6-10.68 GHz</td>
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<td>10.68-10.7 GHz</td>
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<td>10.7-11.7 GHz</td>
<td>FIXED MOBILE except aeronautical mobile</td>
<td>FIXED</td>
<td>Fixed “Z” Band used for point to point linking</td>
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<td>11.7-12.2 GHz</td>
<td>FIXED BROADCASTING</td>
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<td>12.2-12.5 GHz</td>
<td>MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.487 5.487A 5.492</td>
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<td>12.5-12.75 GHz</td>
<td>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile BROADCASTING 5.484A 5.487</td>
<td>BROADCASTING SATELLITE FIXED-SATELLITE (space-to-Earth)</td>
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<td>12.75-13.25 GHz</td>
<td>FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space research (deep space) (space-to-Earth)</td>
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<td>Fixed “X” Band point to point linking including inter-cell site linking</td>
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<td>13.25-13.4 GHz</td>
<td>EARTH EXPLORATIONSATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active)</td>
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<td>13.4–13.75 GHz</td>
<td>EARTH EXPLORATIONSATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal satellite (Earth-to-space) 5.501B</td>
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<td>14.4 – 14.7 GHz</td>
<td>FIXED FIXED SATELLITE (Earth to space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile satellite (earth to space) 5.506A 5.509A Space Research (space to earth) 5.504A</td>
<td>FIXED-SATELLITE (Earth-to-space) (Continued)</td>
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<td>14.47 – 14.5 GHz</td>
<td>FIXED FIXED SATELLITE (Earth to space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile satellite (earth to space) 5.506B 5.506A 5.509A</td>
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<td>Radio Astronomy 5.149 5.504A</td>
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<td>Frequency Range</td>
<td>Fixed Satellite (Earth to space)</td>
<td>Mobile Satellite (Space to Earth)</td>
<td>Fixed “G” Band used for point to point linking</td>
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<td>14.5 – 14.8 GHz</td>
<td>5.10 MOBILE Space Research</td>
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<td>Fixed “G” Band for point to point linking</td>
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<td>14.8 – 15.35 GHz</td>
<td>FIXED MOBILE Space Research</td>
<td>FIXED</td>
<td>17.7-19.7 GHz Fixed “18G” Band used for point to point linking, especially for inter cell site linking</td>
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<td>17.7-18.1 GHz</td>
<td>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE 5.519 5.521</td>
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<td>18.6-18.8 GHz</td>
<td>EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space research (passive) 5.522A</td>
<td>FIXED</td>
<td>Fixed “18G” Band used for point to point linking especially for inter cell site linking</td>
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<td>18.8-19.3 GHz</td>
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<td>19.3-19.7 GHz</td>
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<td>19.7-20.1 GHz</td>
<td>FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-satellite (space-to-Earth)</td>
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<td>MOBILE-SATELLITE (space-to-Earth) 5.525 5.526 5.527 5.528</td>
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<td>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</td>
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<td>21.2-21.4 GHz</td>
<td>EARTH EXPLORATIONSATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</td>
<td>FIXED 21.2-23.6 GHz</td>
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<td>22.0 -22.21 GHz</td>
<td>FIXED MOBILE except aeronautical mobile 5.149</td>
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<td>22.21-22.5 GHz</td>
<td>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532</td>
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<td>22.5-22.55 GHz</td>
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<td>22.55-23.55 GHz</td>
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<td>23.55-23.6 GHz</td>
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<td>23.6-24 GHz</td>
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<td>24-24.05 GHz</td>
<td>AMATEUR AMATEUR-SATELLITE 5.150</td>
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<td>Amateur usage SRD, spread spectrum devices and ISM usage</td>
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<td>24.05-24.25 GHz</td>
<td>RADIOLOCATION Amateur Earth exploration-satellite (active) 5.150</td>
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<td>Amateur usage (including beacons) 24.0-24.25 GHz SRD unrestricted usage and ISM</td>
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<td>24.25-24.45 GHz</td>
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<td>24.45-24.65 GHz</td>
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<td>24.65-24.75 GHz</td>
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<td>24.75-25.25 GHz</td>
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<td>25.25-25.5 GHz</td>
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<td>37-39.5 GHz</td>
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<td>5.149 5.547</td>
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