

Proposal for Modification of the National Frequency Allocation Plan (NFAP) of Panama

General Objective

To Update the NFAP in accordance with the international recommendations in radio spectrum management and the ITU Radio Regulations.



Proposed Topics

1

Update NFAP according to RR



Update the National Frequency Allocation Table, in compliance with the RR. (2024 Edition)

2

Sort spectrum usage



Update the Article related to the operation of Fixed Wireless Access Systems (FWA) for Commercial Use.

3

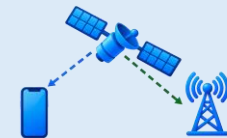
Increase WiFi Spectrum



Allocate the 6 GHz band (5.925 to 6.425 MHz) as the "Free or Unlicensed Use" band.

4

Adapt NFAP for D2C



Incorporate provisions for the Mobile-Satellite Service.

Technical Impact:



Increased spectrum efficiency



Better Spectral Planning



Interference mitigation



Technological Flexibility

**Dispose a technical framework that favors innovation
and deployment of new services**

Topic 2

Update provisions on the Formation of Fixed Wireless Access Systems.



2024

- Public Consultation No. 011-24 on designating the band 3,600 to 3,800 MHz for FWA.



2025

- Evaluation of Panama Canal Authority (PCA) comments on the definition of "Canal Area" CP No. 011-24.



2026

- ACP Case (Farfán) - presentation of zone defined as "Canal Compatibility Area."

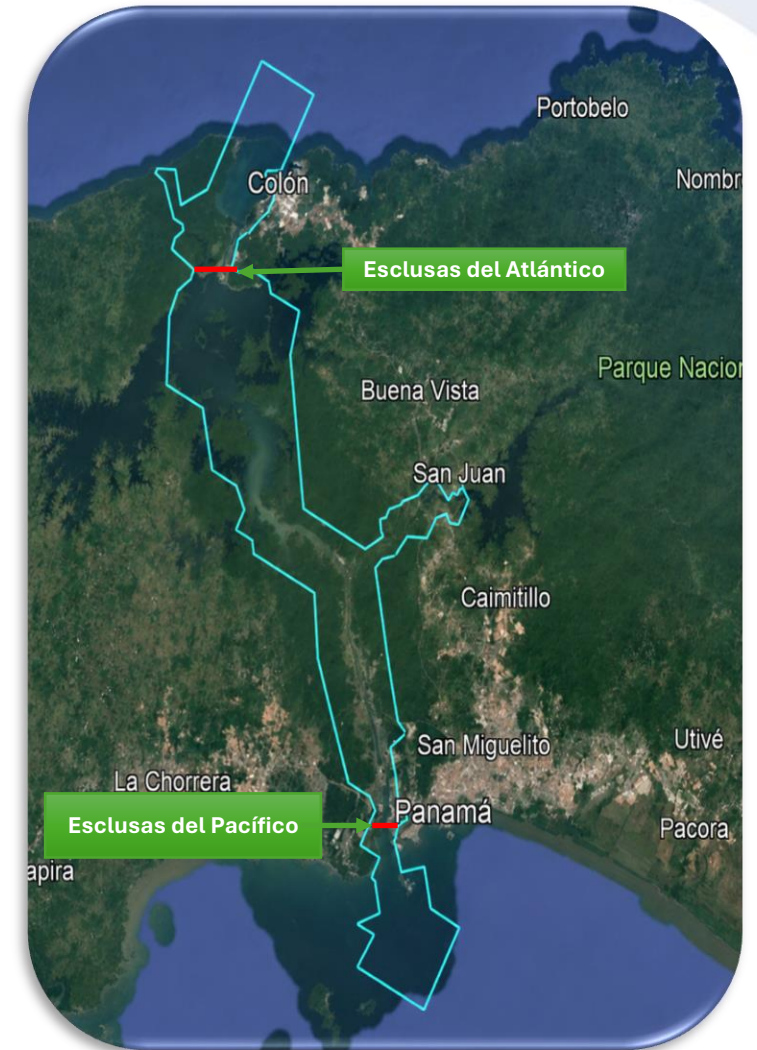
Topic 2

Update Art. on the Formation of Fixed Wireless Access Systems.

PROPOSAL

The purpose of the modification is to harmonize the geographical delimitation established in Article 22 of the PNAF with the current legal framework that regulates the Area of Compatibility with the Operation of the Panama Canal. (Law 21 of July 2, 1997).

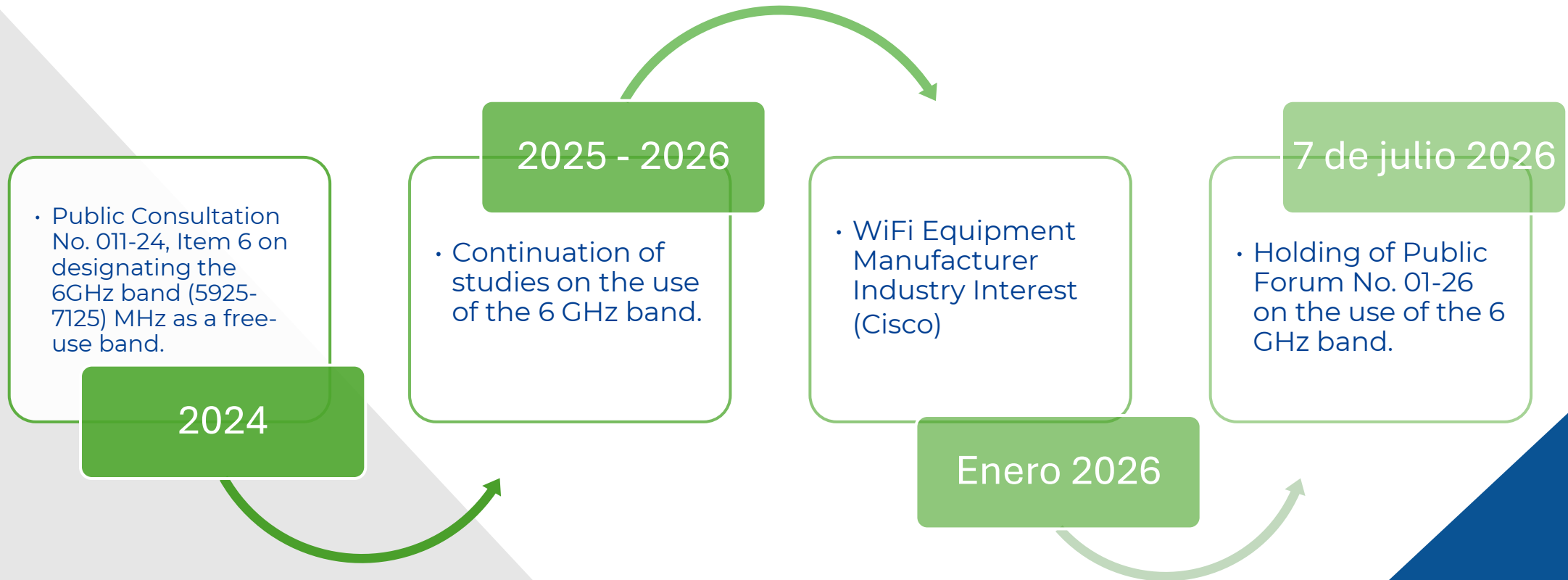
ÁREA DE COMPATIBILIDAD DEL CANAL



Topic 3

Attribute the 5.925 – 6.425 MHz segment

ANTECEDENTES



Topic 3

Attribute the 5.925 – 6.425 MHz segment

((📶)) POSICIÓN ADOPTADA: ESCENARIO 1 (500 MHz) (5925–6425 MHz)			
N°	LOGO	PARTICIPANTE	POSICIÓN ADOPTADA
1		Fredy Véliz	Escenario 1 (500 MHz)
2		José Luis Ayala	Escenario 1 (500 MHz)
3		Larissa Jales	Escenario 1 (500 MHz)
4		José Arias	Escenario 1 (500 MHz)
5		Simón Meléndez	Escenario 1 (500 MHz)
6		César Gutiérrez	Escenario 1 (500 MHz)

Compendium of the presentations expressed at the forum

Topic 3

Attribute the 5.925 – 6.425 MHz segment

POSICIÓN ADOPTADA: ESCENARIO 2 (1200 MHz) (5925–7125 MHz)			
N°	LOGO	PARTICIPANTE	POSICIÓN ADOPTADA
1		Carolina Cruz	Escenario 2 (1200 MHz)
2		Martha Suárez	Escenario 2 (1200 MHz)
3		Juan Pablo Rocha López	Escenario 2 (1200 MHz)
4		Víctor Martínez	Escenario 2 (1200 MHz)
5		Carlos Rebollón	Escenario 2 (1200 MHz)

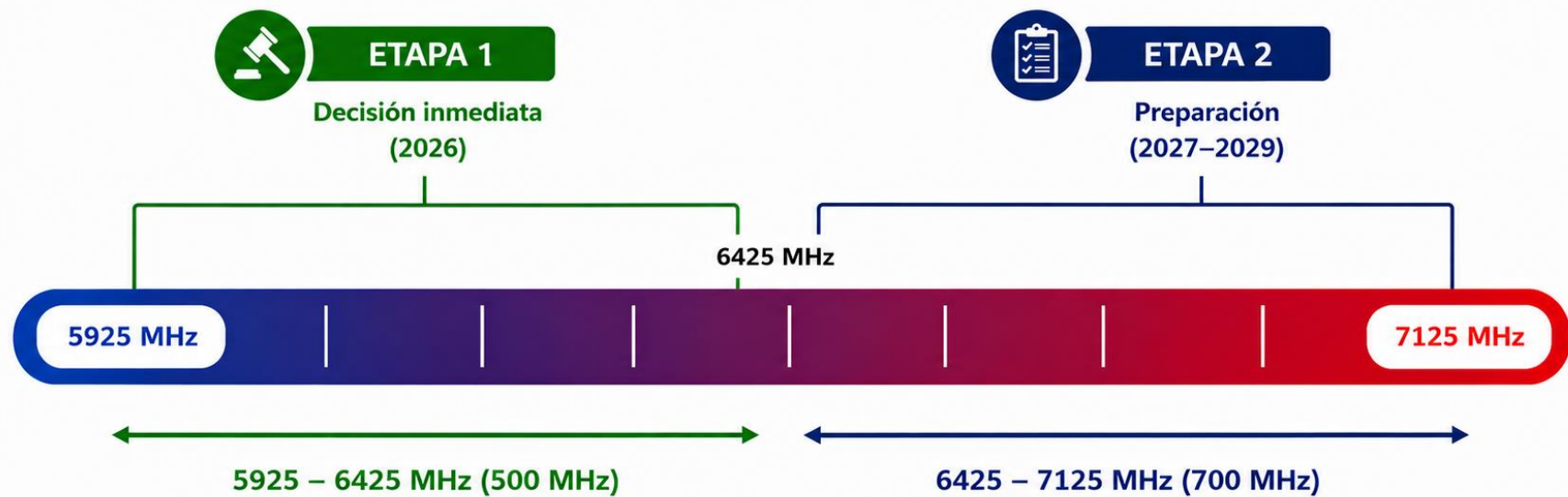
POSICIÓN ADOPTADA: NEUTRAL / FLEXIBLE (Acepta ambos escenarios)			
N°	LOGO	PARTICIPANTE	POSICIÓN ADOPTADA
1	 Hewlett Packard Enterprise	Carlos Cordero	Neutral / Flexible

Compendium of the presentations expressed at the forum

Topic 3

Attribute the 5.925 – 6.425 MHz segment

PROPOSAL



ETAPA 1 — Decisión inmediata (2026)

- Atribuir 5,925–6,425 MHz (500 MHz) a uso libre, con algunos parámetros técnicos recomendados por CITEL.



ETAPA 2 — Preparación (2027–2029)

- Reevaluar la banda alta según resultados de la CMR-27 y evolución de la ocupación Wi-Fi en la banda baja.

Topic 4

Incorporate provisions for the Mobile-Satellite Service.

Direct-to-Cell (D2C) Conectividad directa satélite – dispositivo

-  Permite conexión directa de un **teléfono móvil convencional** con el Satélite.
-  Brinda conectividad en zonas donde **no existe cobertura**.
-  Su implementación requiere **ajustes en el PNAF**.



INTEGRACIÓN DE BANDAS (Art. 8.4)



Bandas IMT

Espectro atribuido a servicios móviles internacionales (redes celulares terrestres).



Bandas MSS / SMS

Espectro destinado al Servicio Móvil por Satélite.

Topic 4

Incorporate provisions for the Mobile-Satellite Service.

ANTECEDENTES



Topic 4

Incorporate provisions for the Mobile-Satellite Service.

PROPUESTA

Provisions on the use of D2C in bands of the Mobile Satellite Service (Services No.217 and No.222)

1

Conditional access to frequencies:

Inclusion in all segments of the Mobile Satellite Service of the observation that users' terminals will be able to access these frequencies in the absence of services No.106 and No.107.

2

Complementary Mobile Satellite Service:

The service must be complementary to land mobile networks and agreements may be signed with land mobile operators.

3

Mandatory approval of terminal equipment

The approval of the terminal equipment must be given before the provision of the service begins.

4

On interference:

The operator must document its interference assessments to request frequencies.

THANK YOU

Working together for an efficient use of the radio spectrum