

# Regional Preparation for WRC-27 Asia/Pacific Region

## **Chainan Chaisompong**

Thailand

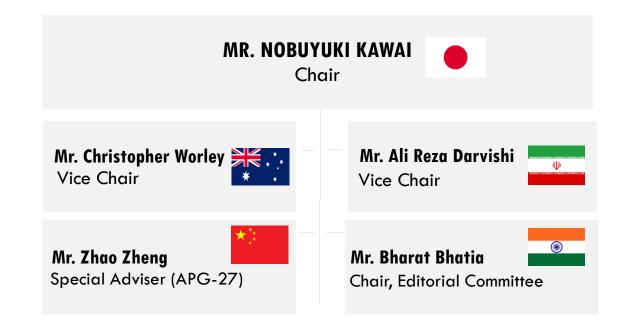


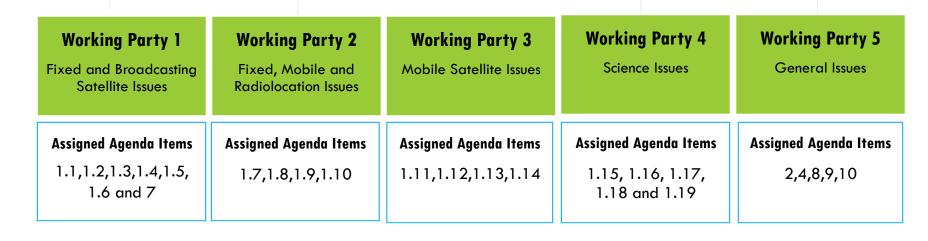
Workshop on ITU World Radiocommunication Conference 2027 (WRC-27 Workshop) (Paris, France, 06-07 October 2025)



# Asia Pacific Telecommunity (APT) APT Preliminary View for WRC-27

## APG-27 STRUCTURE FOR WRC-27





## APG-27 **STRUCTURE** FOR WRC-27

#### **Working Party Chair** Responsible Agenda Items **Working Party 1** Ms. Cheng Fenhong (P. R of China) 1.5, 1.6, 7 Fixed and Broadcasting Satellite Issues 1.1, 1.2, 1.3, 1.4 Mr. Mrunmaya Kumar Pattanaik (India) **Working Party 2** Mr. Satoshi Imata (Japan) 1.8, 1.9 Fixed, Mobile and Radiolocation Issues Mr. Bui Ha Long (S.R. of Vietnam) 1.7, 1.10 **Working Party 3** Dr. Meiditomo Sutyarjoko (Indonesia) 1.12, 1.14 Mobile Satellite Issues Dr. Dae-sub Oh (Rep. of Korea) 1.11, 1.13 **Working Party 4**

Science Issues

Dr. Wahyudi Hasbi (Indonesia)

#### **Working Party 5**

General Issues

Dr. Jae-woo Lim (Rep. of Korea)

## AGENDA ITEMS - MAJOR CONCERNS TO AVIATION

**AGENDA ITEM 1.7** to consider studies on sharing and compatibility and develop technical conditions for the use of International Mobile Telecommunications (IMT) in the frequency bands 4 400-4 800 MHz and 7 125-8 400 MHz (or parts thereof), and 14.8-15.35 GHz taking into account existing primary services operating in these, and adjacent, frequency bands, in accordance with Resolution **256** (WRC-23)

<b>APT Preliminary</b>	v View			
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APT Members support ITU-R sharing and compatibility studies in accordance with Resolution 256 (WRC-23).

## AGENDA ITEMS - MAJOR CONCERNS TO AVIATION

**AGENDA ITEM 1.19** to consider possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, in accordance with Resolution **674 (WRC-23)** 

#### **APT Preliminary View**

APT Members support the ongoing ITU-R studies in accordance with Resolution 674 (WRC-23) for the consideration of possible primary allocation to the Earth exploration-satellite service (passive), for SST measurement, in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, on the basis that any such allocation shall not claim protection from existing services allocated in these bands and adjacent frequency bands in accordance with RR, Edition of 2024.

## **AGENDA ITEMS - MAJOR CONCERNS TO AVIATION**

AGENDA ITEM 1.13 to consider studies on possible new allocations to the mobile- satellite service for direct connectivity between space stations and International Mobile Telecommunications (IMT) user equipment to complement terrestrial IMT network coverage, in accordance with Resolution 253 (WRC-23)

<b>APT Preliminary View</b>	

APT Members support to carry out necessary and appropriate studies to respond, to the extent practicable, to the objectives of Resolution 253 (WRC-23).

**AGENDA ITEM 1.5** to consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services, in accordance with Resolution **14 (WRC-23)** 

#### **APT Preliminary View** \_

APT Members support the ongoing ITU-R studies, in accordance to Resolution 14 (WRC-23), on regulatory measures to limit unauthorized operations of non-GSO FSS and MSS earth stations in the Earth-to-space direction in order to address and cease such operations, taking into account technical and operational aspects, as appropriate, recognizing the sovereign right of the Member States under the ITU Constitution to regulate its own telecommunications and to determine what non-GSO FSS and MSS earth stations should be authorized to operate within its territory, including its national waters and airspace.

#### **AGENDA ITEM 1.5** (Continue)

<b>APT Preliminary View</b>	<b>APT</b>	T Preli	minary	View
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APT Members are of the view that while the existing regulatory provisions including RR Article 18, Resolution 25 (Rev. WRC-23) and Resolution 22 (Rev. WRC-23) are sufficient, additional measures need to be considered based on the results of ITU-R studies to enforce compliance with these existing provisions.

APT Members support possible actions to be taken for the development of an appropriate Resolution [AI1.5] (WRC-27) to achieve the objectives of Resolution 14 (WRC-23), taking into account relevant provisions of the RR including that of Articles 18, Resolution 22 (Rev. WRC-23), Resolution 25 (Rev. WRC-23), as well as Articles 9 and 11 of the RR, in particular, designation of administration responsible for discharging the obligation stipulated in the RR.

#### **AGENDA ITEM 1.5** (Continue)

#### Other View(s) from APT Members

Some APT Members support an appropriate Resolution [AI1.5] (WRC-27) to achieve the objectives of Resolution 14 (WRC-23) including measures such as:

- ensuring that operation of non-GSO FSS or MSS earth stations/terminals in the Earth-to-space direction in territories of administrations that have not authorized such operation is ceased through various possible means;
- identification of responsibilities of notifying administrations of non-GSO FSS and MSS satellite systems;
- designation of one single administration to be responsible to discharge the obligation stipulated in the RR with respect to other administrations, BR and RRB, if there is more than one administration involved in the notification of frequency assignments of a non-GSO FSS or MSS satellite system;

#### **AGENDA ITEM 1.5** (Continue)

#### **Other View(s) from APT Members (Continue)**

- consequences for notifying administrations of non-GSO FSS or MSS satellite systems failing to comply with these measures including any actions to be taken by RRB;
- regulatory measures to exclude at any time from the service area of a non-GSO FSS or MSS satellite system the national territory of an administration that requests to be excluded from the service area without adversely affecting the provision of service in the rest of service area;

Some APT Members are of the view that it would be appropriate to develop criteria for identifying those non-GSO satellite systems in the FSS and MSS that may be subject to any new regulatory measures, rather than applying such technical measures except exclusion of service area, uniformly across all non-GSO FSS and MSS systems.

Other APT Members are of the view that it is very difficult if not impossible to distinguish between various non-GSO FSS and MSS systems in order to select some of them to which certain provisions apply for some others those provisions do not apply. To this effect the above view needs to be improved in order to remove any ambiguity.

AGENDA ITEM 1.9 to consider appropriate regulatory actions to update Appendix 26 to the Radio Regulations in support of aeronautical mobile (OR) high frequency modernization, in accordance with Resolution 411 (WRC-23)

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APT Members support ITU-R sharing and compatibility studies in accordance with Resolution 411 (WRC-23) with a view to update Appendix 26 of the RR to enable the use of modernised Wideband High Frequency (WBHF) technologies.

Any modifications to Appendix 26 of the RR should be on the basis that the sharing and compatibility studies show no reduction in protection criteria of existing applications within the Aeronautical Mobile (OR) Service, as well as Primary services in the same or adjacent bands, in particular the AM(R)S as detailed in Appendix 27.

**AGENDA ITEM 1.11** to consider the technical and operational issues, and regulatory provisions, for space-to-space links among non-geostationary and geostationary satellites in the frequency bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660 MHz, 1 670-1 675 MHz and 2 483.5-2 500 MHz allocated to the mobile-satellite service, in accordance with Resolution **249 (Rev.WRC-23)** 

#### APT Preliminary View \_\_\_\_\_

APT members support the studies at ITU-R of technical and operational issues, and regulatory provisions, for space-to-space links among non-geostationary and geostationary satellites in the frequency bands allocated to the mobile-satellite service, in accordance with Resolution **249** (Rev.WRC-23), in particular taking into account the directions of transmissions in accordance with *resolves* 1 and 2 of the above mentioned Resolution.

Any technical and regulatory provisions developed under this Agenda Item should ensure the protection of current and planned MSS operations and other existing services allocated in those frequency bands and adjacent frequency bands.

**AGENDA ITEM 1.11 (Continue)** 

#### Other View(s) from APT Members

Some APT members are of the view that the proposed space-to-space links have to be operated in conjunction with notified MSS (Earth-to-space and space-to-Earth) networks in these bands.

**AGENDA ITEM 1.12** to consider, based on the results of studies, possible new allocations to the mobile-satellite service and possible regulatory actions in the frequency bands 1 427-1 432 MHz (space-to-Earth), 1 645.5 - 1 646.5 MHz (space-to-Earth) (Earth-to-space), 1 880-1 920 MHz (space-to-Earth) (Earth-to-space) and 2 010 - 2 025 MHz (space-to-Earth) (Earth-to-space) required for the future development of low-data-rate non-geostationary mobile-satellite systems, in accordance with Resolution **252** (WRC-**23**)

#### APT Preliminary View \_\_\_\_\_

APT Members supports ongoing ITU-R studies.

- Considering that there are overlapping frequency bands under WRC-27 agenda items 1.12, 1.13 and 1.14; APT Members are of the view that relevant studies should be closely coordinated and aligned accordingly by relevant ITU-R working parties to ensure protection of incumbent services within the frequency bands and the adjacent frequency bands from interference emanating from new possible allocation to non-GSO MSS in accordance with Resolution 252 (WRC-23).

**AGENDA ITEM 1.12 (Continue)** 

#### **APT Preliminary View** \_

- APT Members are of the view that the protection of existing terrestrial IMT systems as well as their continued operation and future development, including for the use of high-altitude platform stations (HAPS) as IMT base stations (HIBS), shall be ensured.
- Protection of incumbent MSS in the 1 645.5-1 646.5 MHz frequency band for GMDSS under No. **5.375** should be ensured from the operation of non-GSO low-data-rate MSS systems.
- APT Members are of the view that to prevent ambiguity and ensuring regulatory stability, a clear definition/description of non-GSO low-data-rate MSS systems, including how they distinct from existing MSS systems, should be established.

**AGENDA ITEM 1.12 (Continue)** 

#### Other View(s) from APT Members

Some APT Member are of the view that there may be certain difficulties between DC-MSS-IMT operation under agenda item 1.13 and non-GSO low-data-rate MSS systems under agenda item 1.12. Such difficulties are expected to be demonstrated.

Some APT Member does not support possible new MSS allocations under WRC-27 agenda item 1.12 unless above mentioned points in APT Preliminary View were resolved.

AGENDA ITEM 1.15 to consider studies on frequency-related matters, including possible new or modified space research service (space-to-space) allocations, for future development of communications on the lunar surface and between lunar orbit and the lunar surface, in accordance with Resolution 680 (WRC-23)

#### APT Preliminary View \_\_\_\_\_\_

APT Members support appropriate studies on potential new allocations, or the modification of existing allocations, in the Space Research Service (space-to-space) for future development of communications on the lunar surface and between lunar orbit and the lunar surface within the frequency ranges identified in resolves 1) of Resolution 680 (WRC-23) while ensuring the protection of existing radiocommunication services as identified in recognizing g) to n) of Resolution 680 (WRC-23)

APT Members are of the view that protection of the Shielded Zone of the Moon as specified in Article 22 Section V of the ITU-R Radio Regulations must be ensured.

AGENDA ITEM 1.16 to consider studies on the technical and regulatory provisions necessary to protect radio astronomy operating in specific Radio Quiet Zones, and in frequency bands allocated to the radio astronomy service on a primary basis globally, from aggregate radio-frequency interference caused by non-geostationary-satellite orbit systems, in accordance with Resolution 681 (WRC-23)

#### APT Preliminary View \_\_\_\_\_

APT Members support the ongoing ITU-R studies to protect radio astronomy operating in the bands specified in Resolution 681 (WRC-23) where radio astronomy service has primary allocation, and to characterize the specified radio quiet zones in accordance with Resolution 681 (WRC-23) while not imposing undue constraints on the non-GSO systems.

**AGENDA ITEM 1.17** to consider regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations, taking into account the results of ITU Radiocommunication Sector studies, in accordance with Resolution **682** (WRC-23)

#### **APT Preliminary View** \_\_\_\_\_

APT Members support studies on regulatory provisions for receive-only space weather sensors and their protection in the Radio Regulations (RR), including potential primary allocations to MetAids (space weather) for receive-only space weather sensors in the frequency bands identified in Resolution **682** (WRC-23). APT Members understand that these allocations shall not claim protection from, or constrain the future development of, incumbent services, in accordance with RR (Edition 2024), in these frequency bands or in adjacent bands.

APT Members also support studies on possible regulatory provisions of RR to accommodate the possibility to notify a receive-only space weather sensor station in the Master International Frequency Register.

**AGENDA ITEM 1.18** to consider, based on the results of ITU Radiocommunication Sector studies, possible regulatory measures regarding the protection of the Earth exploration-satellite service (passive) and the radio astronomy service in certain frequency bands above 76 GHz from unwanted emissions of active services, in accordance with Resolution 712 (WRC-23)

#### **APT Preliminary View** \_\_\_\_\_

APT Members support conducting compatibility studies between the EESS (passive) and the corresponding active services in adjacent frequency bands as listed in Table 1 of Resolution 712 (WRC-23), and the compatibility studies between the RAS and the active satellite services in certain adjacent and nearby frequency bands as listed in Table 2 of Resolution 712 (WRC-23).

APT Members are of the view that based on the outcomes of the studies, the appropriate regulatory measures regarding the protection of the EESS (passive) and RAS should be considered with the revision of Resolution 750 (Rev. WRC-19) and Resolution 739 (Rev. WRC-19), respectively.

**AGENDA ITEM 1.19** to consider possible primary allocations in all Regions to the Earth exploration-satellite service (passive) in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, in accordance with Resolution **674 (WRC-23)** 

#### **APT Preliminary View** \_

APT Members support the ongoing ITU-R studies in accordance with Resolution 674 (WRC-23) for the consideration of possible primary allocation to the Earth exploration-satellite service (passive), for SST measurement, in the frequency bands 4 200-4 400 MHz and 8 400-8 500 MHz, on the basis that any such allocation shall not claim protection from existing services allocated in these bands and adjacent frequency bands in accordance with RR, Edition of 2024.

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