Spectrum planning framework

Draft frequency coordination requirements review work program 2023–24

June 2023

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# Introduction

The Australian Communications and Media Authority (ACMA) is committed to reviewing spectrum planning technical frameworks to ensure they remain current and consistent with current technologies and operational practices. Broadly, this comprises 2 workstreams:

Ensuring frequency coordination requirements for apparatus-licensed services are current. This material is recorded in administrative policy documents referred to as RALIs – Radiocommunications Assignment and Licensing Instructions.

Consideration of spectrum licence technical frameworks and ensuring the continuing appropriateness of spectrum embargoes.

The role of the ACMA’s spectrum planning framework is discussed in further detail in the [*Spectrum planning framework: Information paper*](https://www.acma.gov.au/sites/default/files/2022-08/Spectrum%20planning%20framework_information%20paper_1.docx).

This document sets out the next set of planned RALI reviews we will undertake, and follows on from our previous [RALI review work program for 2021–22](https://www.acma.gov.au/sites/default/files/2021-10/Spectrum%20planning%20framework_review%20work%20program%202021%E2%80%9322%20%28final%29.docx). It outlines our proposed work program for reviewing frequency coordination requirements over the coming 12 to 18 months. This document also provides an update on progress against the previous work program. We will aim to update this review work program regularly, ideally on an annual basis, to provide ongoing transparency for interested stakeholders.

In 2020, we consulted on a program for reviewing spectrum licence technical frameworks. The updated work program is available on the [ACMA website](https://www.acma.gov.au/spectrum-licence-technical-framework-review). Spectrum licence technical frameworks are outside the scope of this work program.

The review work program included in this document will guide the ACMA in undertaking this work. Importantly, in all cases, any proposed changes will be subject to further consultation. The timeframes provided give an indication of when we intend to undertake this work, however, exact timings will be influenced by broader priorities and any issues identified during the consultation and review process.

# Program of review for 2023–24

In Table 1 below, we outline the program of work that the ACMA intends to undertake to update our suite of frequency assignment and coordination rules. For completeness, it includes activities already identified in the [Five-year spectrum outlook](https://www.acma.gov.au/five-year-spectrum-outlook) (FYSO).

There are currently 26 documents, primarily RALIs, that contain frequency assignment and coordination instructions (other RALIs that do not contain assignment and coordination instructions, for example, band plan RALIs, are outside the scope of this review). The proposed review timetable is listed in Table 1 below, including whether items are currently flagged for revision (noting this may change because of stakeholder feedback). The proposed revisions are discussed in further detail below.

## Call for feedback

We invite suggestions for additional changes and improvements to our suite of frequency assignment and coordination documents in response to this draft work program. Any suggestions that might assist in the application, readability and clarity of RALIs are welcome. Suggestions that would constitute a planning change, such as a change to the uses supported in a band, should be raised separately by providing feedback when we consult on the next FYSO. RALIs themselves are implementations of planning decisions – the planning itself is a separate set of processes.

While RALI MS03 – Spectrum Embargoes is not included in Table 1, as part of our normal work we will review this document across the next 12 to 18 months to ensure embargoes are still required and fit-for-purpose. Suggestions for improvement or changes to RALI MS03 are welcome in response to this consultation.

We have provided an indicative timing for the review periods of relevant RALIs. Exact timing will be informed by any issues identified during the consultation and review process.

## Regulator Performance Guide

The [Regulator Performance Guide](https://www.finance.gov.au/government/managing-commonwealth-resources/regulator-performance-rmg-128) outlines the principles of best practice that underpin the government’s expectations of regulators and their performance. The principles are:

**Continuous improvement and building trust** – regulators adopt a whole-of-system perspective, continuously improving their performance, capability and culture to build trust and confidence in Australia’s regulatory settings.

**Risk-based and data-driven** – regulators manage risks proportionately and maintain essential safeguards while minimising regulatory burden and leveraging data and digital technology to support those they regulate to comply and grow.

**Collaboration and engagement** – regulators are transparent and responsive communicators, implementing regulations in a modern and collaborative way.

We will look to identify opportunities to improve our suite of frequency assignment and coordination documents as part of this review, in collaboration with stakeholders. The improved frameworks will support ongoing industry innovation, including by facilitating the adoption of the latest technologies.

Current status of frequency assignment and coordination documents

|  |  |  |  |
| --- | --- | --- | --- |
| Identifier | Title | Review required? | Expected timeframe for undertaking revision |
| FX01 | Frequency assignment requirements for narrowband fixed and mobile services with wideband fixed services in the 403–420 MHz band | No | - |
| FX03 | Microwave fixed services frequency coordination including information on RPE data files | Yes | Q3 2023–Q2 2024 |
| FX16 | Point-to-multipoint fixed services in the VHF high, 400 MHz and 800 MHz bands | Yes | Q3–Q4 2023 |
| FX17 | Frequency assignment requirements for narrowband single channel 2 frequency point-to-point services in the VHF high and 400 MHz bands | No | - |
| FX19 | Frequency coordination and licensing procedures for apparatus licensed broadband wireless access services in the 1900–1920 MHz and 3575–3700 MHz bands | Possible consequential updates due to 1880–1920 MHz band review | Not until Q1 2024 at the earliest  |
| FX20 | Millimetre wave point-to-point (self-coordinated) stations operating in the 58 GHz, 75 GHz and 85 GHz bands | Yes | Q3-Q4 2023 |
| FX21 | Television outside broadcasting services in the bands 1980–2110 MHz and 2170–2300 MHz | Possible consequential updates due to the introduction of 2 GHz MSS services | Not until Q2 2024 at the earliest |
| FX22 | Frequency assignment requirements for the fixed service in the 800 MHz band | Yes | Q3–Q4 2023 |
| FX23 | Frequency coordination and licensing procedures for point-to-multipoint services in the 5.6 GHz band | Yes | Q3–Q4 2023 |
| LM02 | Paging services | No | - |
| LM05 | Frequency assignment procedures for land mobile services adjacent to TV channels 2, 3 and 6 | No | - |
| LM08 | Frequency assignment requirements for the land mobile service | Yes | Q3–Q4 2023 |
| LM09 | Frequency assignment procedures for apparatus licensed wireless audio devices | No |  - |
| MS31 | Notification zones for apparatus licensed services around radio astronomy facilities | No |  - |
| MS32 | Coordination of apparatus licensed services within the ARQZWA | No |  - |
| MS33 | Frequency coordination and licensing procedures for apparatus licensed PTS in the 2 GHz band | Yes | Q3 2023–Q1 2024 |
| MS34 | Frequency coordination and licensing procedures for apparatus licensed PTS in the 1800 MHz band | Yes | Q3 2023–Q1 2024  |
| MS35 | Coordination of 2.5 GHz band spectrum licensed transmitters with radiodetermination stations operated by the Department of Defence in the 2700–2900 MHz band | No |  - |
| MS37 | Coordination of spectrum licensed devices operating in the 2.3 GHz band with SRS earth stations in the 2290–2300 MHz band | No |  - |
| MS43 | Coordination procedures between New Norcia and Tidbinbilla earth stations and other services in the bands: 7145–7235 MHz, 8400–8500 MHz, 22.55–23.15 GHz, 31.8–32.3 GHz, and 34.2–34.7 GHz | No | - |
| MS44 | Frequency coordination procedures for the earth station protection zones | No | - |
| MS45 | Frequency coordination requirements between microwave fixed point-to-point links and FSS earth stations  | No | - |
| MS46 | Licensing and coordination procedures for area-wide apparatus licensed services in the 26/28 GHz bands | No | - |
| MS47 | Licensing and coordination procedures for area-wide apparatus licensed services in the 3400–4000 MHz band | Yes | Q3–Q4 2023 |
| SM26 | Restrictions on apparatus licensing in spectrum licensed spaces | No | - |
| SP 4/93 | Coordination procedures for the licensing of services sharing the 857–861 MHz band | Planned for suppression  | Q3–Q4 2023 |

## Frequency coordination requirements (RALIs)

### FX03

RALI FX03 details frequency coordination arrangements for microwave fixed services. We intend to undertake a significant review of RALI FX03 arrangements, expected to be conducted between Q3 2023 and Q2 2024. A consultation process will be conducted to consider a range of updates. The updates to be considered will include:

consideration of new channel arrangements of 56 MHz and 112 MHz in the
14.5–15.35 GHz band (the 15 GHz band) and consideration of arrangements for channel aggregation more broadly across point-to-point bands

review of the minimum front-to-back (F/B) ratio requirements and consideration of potential changes to the minimum antenna requirement framework

consideration of additional information regarding transmitter/antenna/polarisation diversity

consideration of non-binding reference (for purposes of guidance only) to relevant European Telecommunication Standards Institute (ETSI) standards and Federal Communication Commission (FCC) rules under Section 2.1.4 of RALI FX3

consideration of the existing approach to protection ratios and potential improvements to this coordination mechanism

consideration of the current approach to minimum path lengths and potential changes to that approach.

As part of the review, the entire RALI will be considered to ensure it remains up to date, including references to external documents such as International Telecommunications Union Radiocommunication Sector (ITU-R) recommendations and reports.

In addition to the above, the ACMA is currently reviewing the 1880–1920 MHz band (see [IFC 40/2021](https://www.acma.gov.au/consultations/2021-11/exploring-future-use-19-ghz-band-consultation-402021)). The 1880–1920 MHz band may be a candidate for changes to support new technologies including DECT-2020[[1]](#footnote-1) and future rail mobile communications systems. This may result in future changes to RALI FX03.

|  |
| --- |
| **Completed work from 2021–22 review work program**Changes to arrangements in the 3.8 GHz band in June 2023 as an outcome of the 3700–4200 MHz review (see [IFC 11/2022](https://www.acma.gov.au/consultations/2022-02/allocation-awls-34-40-ghz-band-remote-australia-ifc-112022)).Changes to the 7.2 GHz television outside broadcast (TOB) arrangements in FX03 were finalised on 28 October 2022 (See [IFC 19/2022](https://www.acma.gov.au/consultations/2022-06/proposed-updates-channel-arrangements-72-ghz-band-ifc-192022)). |

### FX16

RALI FX16 provides frequency assignment and coordination procedures for point-to-multipoint services in the VHF high, 400 MHz and 800 MHz bands. The spectrum licence technical framework for the 700 MHz and 850 MHz bands[[2]](#footnote-2) were recently updated to include coexistence arrangements with services operating in the new spectrum allocation for two-frequency fixed services.[[3]](#footnote-3)

The ACMA proposes to make to minor, factual updates to RALI FX16 to reflect the new coexistence arrangements, as well as considering additional criteria and/or guidance to aid coordination between point-to-multipoint and 700 MHz spectrum licensed services. These proposals will be considered by the 700 MHz Technical Liaison Group (TLG) in June/July 2023 and updates to RALI FX16 are expected to occur in Q3–Q4 2023.

### FX19

Frequency coordination and licensing procedures for apparatus licensed broadband wireless access services in the 1900–1920 and 3575–3700 MHz bands are outlined in RALI FX19.

The ACMA is currently reviewing the 1880–1920 MHz band (see [IFC 40/2021](https://www.acma.gov.au/consultations/2021-11/exploring-future-use-19-ghz-band-consultation-402021)). The 1880–1920 MHz band may be a candidate for changes to support new technologies including DECT-2020 and future rail mobile communications systems. This may result in future changes to RALI FX19, which at this stage will not occur until Q1 2024 at the earliest.

|  |
| --- |
| **Completed work from 2021–22 review work program**In June 2023, material regarding the 3575–3700 MHz band was removed from RALI FX19 and relevant content absorbed into the recently created RALI MS47 (see [IFC 11/2022](https://www.acma.gov.au/consultations/2022-02/allocation-awls-34-40-ghz-band-remote-australia-ifc-112022)), which contains assignment and licensing arrangements for wireless broadband services across the 3400–4000 MHz band. Consolidating arrangements for apparatus licensed wireless broadband use into a single RALI will help simplify access to this band by interested parties. At the same time, minor updates were also made to arrangements in the 1900–1920 MHz band to account for the removal of spectrum licences in metropolitan areas in this band. |

### FX20

RALI FX20 details the frequency coordination and licensing procedures for self-coordinated point-to-point stations in the 58, 75 and 85 GHz bands. In feedback to the [2022–27 FYSO](https://www.acma.gov.au/publications/2022-09/plan/five-year-spectrum-outlook-2022-27), industry indicated that the 71–76 GHz and 81–86 GHz frequency ranges are becoming important to support the increasing demand for high-speed satellite services and that the ACMA should support the introduction of satellite communications services in these bands.

As detailed in our [response to 2022–27 FYSO submissions](https://www.acma.gov.au/sites/default/files/2022-09/Response%20to%20submissions%20to%20Draft%20FYSO%202022-27.pdf), the ACMA will consider arrangements to support satellite services on a coordinated basis with point-to-point links operating under RALI FX20 (potentially requiring updates to this RALI). This work is expected to occur across Q3 and Q4 2023.

### FX21

RALI FX21 contains frequency coordination and licensing arrangements for TOB services in the bands 1980–2110 MHz and 2170–2300 MHz. This RALI was updated in August 2022 to reflect new arrangements for TOB services and the introduction of mobile satellite services (MSS) in 1980–2010 MHz and 2170–2200 MHz (see IFC [45/2021](https://www.acma.gov.au/consultations/2021-12/replanning-2-ghz-band-review-2-ghz-television-outside-broadcast-frequency-band-plan-consultation-452021) and IFC [46/2021](https://www.acma.gov.au/consultations/2021-12/proposed-licensing-arrangements-2-ghz-narrowband-mobile-satellite-services-and-28-ghz-fixed-satellite-services-consultation-462021)).

As work to support the introduction of MSS continues, there is likely to be future consequential updates to FX 21. At this stage no changes are envisaged until Q2 2024 or later (which is when consultation on the draft technical framework instruments supporting the allocation of licences for MSS is envisaged to commence).

### FX22

RALI FX22 contains frequency assignment requirements for the fixed service in the 800 MHz band.

The spectrum licence technical framework for the 700 MHz[[4]](#footnote-4) was recently updated to include coexistence arrangements with services operating in the new spectrum allocation for two-frequency fixed services.[[5]](#footnote-5)

The ACMA proposes to make minor, factual updates to RALI FX22 to reflect the new coexistence arrangements, as well as considering additional criteria and/or guidance to aid coordination between point-to-point and 700 MHz spectrum licensed services. These proposals will be considered by the 700 MHz TLG in June/July 2023 and updates to RALI FX22 are expected to occur in Q3–Q4 2023.

### Completed work from 2021–22 review work program

RALI FX22 was updated in July 2022 to incorporate changes made to the 850 MHz and 900 MHz spectrum licence technical frameworks (See [IFC 05/2022](https://www.acma.gov.au/consultations/2022-02/proposed-updates-rali-fx-22-frequency-assignment-requirements-fixed-service-800-mhz-band-consultation-052022)).

### FX23

Frequency coordination and licensing procedures for point-to-multipoint services in the 5.6 GHz band are detailed in RALI FX23. We intend to make editorial updates as well as updating Annex D, which contains the locations and parameter values for potential sites for future weather radars. This will ensure the 5.6 GHz band is available for utilisation to its full potential by ensuring coordination with incumbent services is based on the most up-to-date technical characteristics. This work has been delayed from the timings in the 2021–22 review work program and is now expected to occur in Q3–Q4 2023.

### LM08

RALI LM08 contains frequency assignment requirements for the land mobile service.

The ACMA is intending to amend arrangements in RALI LM08 to implement the final milestones arising from the 803–960 MHz band review, as set out in the [decision paper](https://www.acma.gov.au/publications/2015-12/report/acmas-long-term-strategy-803-960-mhz-band-decision-paper) published in 2015. As described in the decision paper, the planned LM08 update will include:

amending frequency limits for the 800 MHz trunked land mobile band in Annex A (Table A1) from 806–870 MHz to 806–854 MHz

removing Table B4.2, renaming Table B4.2a as Table B4.2 (which will put into effect the removal of the allocation at 820–825/865–870 MHz) and changing channel numbers from 201–440 to 1–240

removing Table B4.1, renaming Table B4.1a as Table B4.1 and changing channel numbers from 201–440 to 1–240

renumbering channels from 201–320 to 1–120 in Tables B5.1 and B5.2

retaining existing frequency-distance constraints and technical parameters for intermodulation checking purposes.

In addition to the above, we propose to make to minor, factual updates to RALI LM08 to reflect the new coexistence arrangements as well as considering additional criteria and/or guidance to aid coordination between point-to-point and 700 MHz spectrum licensed services. These proposals will be considered by the 700 MHz TLG in June/July 2023 and updates to RALI LM08 are expected to occur in Q3–Q4 2023.

### Completed work from 2021–22 review work program

We completed an initial internal study of the frequency distance reuse constraints for 400 MHz services. Preliminary results indicated some opportunities to reduce the frequency/distance constraints distance and, as a result, allow scope for more efficient allocation of services in congested areas. However, these opportunities are mostly limited to the assignment of simplex services, which are both low in number (with respect to duplex services) and declining in number.

Given that these reforms would be substantial, while not materially assisting in improving utility in congested segments/areas now or into the future, it was decided that no changes will be made to frequency distance reuse constraints for 400 MHz services at this stage (also see the [RALI LM08 page](https://www.acma.gov.au/publications/2019-09/instruction/rali-lm8-land-mobile-service) on our website).

### MS33

Frequency coordination and licensing procedures for apparatus licensed public telecommunications services (PTS) in the 2 GHz band are detailed in RALI MS33. A review of arrangements will commence with an options paper in Q3 2023 that will cover MS33 and MS34.

### MS34

Frequency coordination and licensing procedures for apparatus licensed PTS in the 1800 MHz band are detailed in RALI MS34. A review of arrangements will commence with an options paper in Q3 2023 that will cover MS33 and MS34.

### MS47

RALI MS47 was created in June 2023 and details the licensing and coordination procedures for area-wide apparatus licensed services in the 3400–4000 MHz bands in remote areas only.[[6]](#footnote-6) As technical frameworks are developed for the four [projects](https://www.acma.gov.au/allocating-34-40-ghz-band) in this band, consequential revisions to RALI MS47 will need to be made to reflect decisions on the technical frameworks and allocations. This work is expected to occur across Q3 and Q4 2023.

### SP 4/93

SP 4/93 contains coordination procedures for the licensing of services sharing the 857–861 MHz band. This document will be suppressed in Q3–Q4 2023 as part of the implementation of the review of the 803–960 MHz band. The frequencies covered by this document have been reallocated for spectrum licensing, and assignment instructions for the relocated services are now contained in RALI FX 22.

# Completed RALI updates from the 2021–22 review work program

### FX14

RALI FX14 previously contained arrangements for point-to-multi-point fixed services in specified parts of the 3.4–3.5 GHz band. This RALI was suppressed in June 2023 (see [IFC 11/2022](https://www.acma.gov.au/consultations/2022-02/allocation-awls-34-40-ghz-band-remote-australia-ifc-112022)), with relevant content absorbed into RALI MS47, which includes apparatus assignment and licensing arrangements for wireless broadband services across the entire 3400–4000 MHz band. Consolidating arrangements for apparatus licensed wireless broadband use into a single RALI will help simplify access to this band by interested parties.

### MS38

Arrangements for coordination between earth station transmitters in the fixed-satellite service and other services in the 27.5–30 GHz band were previously outlined in RALI MS38. This RALI was suppressed in July 2022 (see [IFC 04/2022](https://www.acma.gov.au/consultations/2022-02/improving-technical-arrangements-awls-26-ghz-and-28-ghz-bands-consultation-042022)) with relevant coordination arrangements now included in RALI MS46.

### MS39

RALI MS39 previously contained frequency coordination and licensing procedures for apparatus licensed public telecommunications services in the 3.5 GHz band. RALI MS39 was supressed in July 2022 (see [IFC 11/2022](https://www.acma.gov.au/consultations/2022-02/allocation-awls-34-40-ghz-band-remote-australia-ifc-112022)) and relevant content is now absorbed into RALI MS47. Consolidating arrangements for apparatus licensed wireless broadband use into a single RALI will help simplify access to this band and allow for a combination of uses and users, including both wide-area and local-area wireless broadband services.

### MS43

RALI MS43 outlines coordination procedures between the New Norcia and Tidbinbilla earth stations and other services in the bands: 7145–7235 MHz, 8400–8500 MHz, 22.55–23.15 GHz, 31.8–32.3 GHz and 34.2–34.7 GHz. Several updates were made to RALI MS43 in September 2022 (see [IFC 26/2022](https://www.acma.gov.au/consultations/2022-07/updates-earth-coordination-requirements-consultation-262022)), including updating technical characteristics of some transmitters and receivers listed in the RALI and expanding the RALI to include the Tidbinbilla earth stations and the 22.55–23.15 GHz band. Frequency coordination requirements for the 25.5–27 GHz band were also removed from RALI MS43 as these are now contained in RALI MS46.

RALI MS43 was also updated in December 2022 to reflect changed TOB channel arrangements in the 7145–7235 MHz bands (see [IFC 19/2022](https://webarchive.nla.gov.au/awa/20221128162030/https%3A/www.acma.gov.au/consultations/2022-06/proposed-updates-channel-arrangements-72-ghz-band-ifc-192022)).

### MS44

RALI MS 44, which outlines frequency coordination procedures for the earth station protection zones (ESPZs), was updated in December 2021 to extend eastern ESPZs to cover parts of the 3400–3575 MHz band that are not subject to spectrum licensing (see [IFC 31/2021](https://www.acma.gov.au/consultations/2021-08/planning-wireless-broadband-use-urban-areas-3400-3475-mhz-band-consultation-312021)).

RALI MS44 was also updated in July 2022 to include new arrangements for the 24.65–25.25 GHz and 27–29.5 GHz frequency ranges (see [IFC 04/2022](https://www.acma.gov.au/consultations/2022-02/improving-technical-arrangements-awls-26-ghz-and-28-ghz-bands-consultation-042022)).

### MS45

Frequency coordination requirements between microwave fixed point-to-point links and fixed-satellite service (FSS) earth stations are detailed in RALI MS45. Several updates were made to this RALI in July 2022 (see IFC [26/2022](https://www.acma.gov.au/consultations/2022-07/updates-earth-coordination-requirements-consultation-262022)), including the introductions of coordination requirements between earth station transmitters and point-to-point fixed link receivers in the 8, 13, 15 and 18 GHz bands.

### MS46

RALI MS46 details licensing and coordination procedures for area-wide apparatus licensed services in the 26/28 GHz bands. Several updates to this RALI were made in July 2022, including the introduction of coordination requirements around Mingenew in Western Australia, the consolidation of arrangements previously in RALI MS38 and Embargo 79 and making some minor changes to improve the RALIs clarity and operation (see [IFC 04/2022](https://www.acma.gov.au/consultations/2022-02/improving-technical-arrangements-awls-26-ghz-and-28-ghz-bands-consultation-042022)).

# Invitation to comment

## Making a submission

We invite comments on the issues set out in this discussion paper.

[Online submissions](https://www.acma.gov.au/have-your-say) can be made by uploading a document. Submissions in PDF, Microsoft Word or Rich Text Format are preferred.

Submissions by post can be sent to:

The Manager

Spectrum Planning Section

Australian Communications and Media Authority

PO Box 78

Belconnen ACT 2616

The closing date for submissions is COB, **21 July 2023**.

Consultation enquiries can be emailed to freqplan@acma.gov.au.

#### Publication of submissions

We publish submissions on our website, including personal information (such as names and contact details), except for information that you have claimed (and we have accepted) is confidential.

Confidential information will not be published or otherwise released unless required or authorised by law.

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Information on the *Privacy Act 1988,* how to access or correct personal information, how to make a privacy complaint and how we will deal with any complaints, is available in our [privacy policy](https://www.acma.gov.au/privacy-policy).

1. DECT-2020 is the new development in the digital enhanced cordless telecommunications (DECT) technology standard. [↑](#footnote-ref-1)
2. Specifically, these arrangements are contained in the [Radiocommunications Advisory Guidelines (Managing Interference from Transmitters – 700 MHz band) 2023](https://www.legislation.gov.au/Series/F2020L01452), and [Radiocommunications Advisory Guidelines (Managing Interference from Spectrum Licensed Transmitters – 850/900 MHz Band) 2021](https://www.legislation.gov.au/Series/F2021L01148) [↑](#footnote-ref-2)
3. An outcome of the 803-960 MHz review was a change in spectrum allocation for two-frequency fixed services from 852-857/928-933 MHz to 804-809/849-851 MHz. [↑](#footnote-ref-3)
4. Specifically, these arrangements are contained in the [Radiocommunications Advisory Guidelines (Managing Interference from Transmitters – 700 MHz band) 2023](https://www.legislation.gov.au/Series/F2020L01452). [↑](#footnote-ref-4)
5. An outcome of the 803–960 MHz review was a change in spectrum allocation for two-frequency fixed services from 852–857/928–933 MHz to 804–809/849–851 MHz. [↑](#footnote-ref-5)
6. MS47 is expected to be made Q2 2023. [↑](#footnote-ref-6)