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| **Radiocommunication Study Groups** |  |
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| Attachment 5.15 to Document 5D/300 |  |
| **4 February 2013** |
| **English only** |
| Working Party 5D | |
| Procedure for the development of draft revisions  of Recommendation ITU-R M.1457 | |
| (to be the Document ***IMT-2000/3***)  Procedure for the development of draft revisions of Recommendation ITU-R M.1457 (“Detailed Specifications of the Radio Interfaces of IMT-2000 (IMT-2000)”) | |

# 1 Basic principles

considering

*a)* that the general concepts[[1]](#footnote-1) for the principles for the process of development of IMT‑2000 was provided in Circular Letters 8/LCCE/47 and 8/LCCE/95 which outline the essential criteria and principles that are used in the process of developing the Recommendations and Reports for IMT-2000, including Recommendation(s) for the radio interface specification;

*b)* that new terrestrial radio interfaces that are developed over time for inclusion in IMT‑2000 should be considered in a timely fashion;

*c)* that, to remain relevant and useful to the global community, Recommendation ITU‑R M.1457 needs to include the latest and most current revisions of the detailed specifications for the technologies that were designated as meeting the requirements for IMT-2000;

*d)* that the ongoing work results in the evolution of the technologies, necessitating the revision of standards, following rigorous scrutiny in the responsible organizations.

WP 5D has adopted the following basic principles for developing draft revisions of Recommendation ITU-R M.1457:

1. a recurring update within ITU-R for the formal revision of the Recommendation ITU-R M.1457 is appropriate in order to incorporate the latest and most up to date versions of the detailed specifications in Recommendation ITU-R M.1457;
2. that new proposals for candidate terrestrial radio interface technologies will follow the process delineated in Document IMT-2000/1, similar to the process used for the initial IMT-2000 technologies; and

3) that the proposed revisions of existing terrestrial radio interface technologies in Recommendation ITU‑R M.1457 are addressed according to the process in Section 3 below taking due note of the *considerings* above and the relationship established between the ITU‑R and the External Organizations in developing the prior versions.

It should also be noted that specific timing details for a particular Revision will be provided in a specifically issued IMT-2000/ document.

As appropriate, Circular Letters and/or liaisons to announce availability of relevant IMT-2000/ documents as well as additional specific details and associated timings will be forthcoming.

# 2 Revision process in the case of a new proposal for a candidate terrestrial radio interface technology for IMT-2000

When a new RIT or SRIT is proposed by an ***RIT/SRIT Proponent***, the proposal will follow the process for IMT-2000 as defined in Document IMT-2000/1, specifically:

The process may begin at Step 3 (“Submission/reception of the RIT and SRIT proposals and acknowledgement of receipt”) of Document IMT-2000/1. For timing purposes, the meeting at which the new proposal is submitted will be considered “Critical Milestone (1)”, the proposal deadline meeting, as defined in the Schedule of Document IMT-2000/1 in Figure A2‑1. Within the process as outlined in Figure A2-1 the specific dates of the schedule will be appropriately decided respecting the steps of the process (approximately four meetings from “Critical Milestone (1)” to the finalization of Step 7 of the process in Document IMT‑2000/1).

A Circular Letter will be released announcing receipt by WP 5D of a “complete” candidate technology submission and an invitation for the formation of Independent Evaluation Groups and subsequent submission of Evaluation Reports.

In Step 4, organizations wishing to become independent evaluation groups for the newly proposed candidate technology, are requested to register with ITU-R in advance of the meeting following the issuance of the Circular Letter.

In Step 8, Document IMT-2000/2 (“Process and the use of Global Core Specification (GCS), references, and related certifications in conjunction with future Revisions of Recommendation ITU‑R M.1457”) will apply. The completion of Step 8 will be synchronized with the recurring update of Recommendation ITU-R M.1457. Consequently, after successful completion of Step 7, the new technology can enter the revision cycle for Recommendation ITU-R M.1457 at X+2A or as late as X+2B as outlined in Table 1 or 2 for inclusion in the current planned Revision.

# 3 Revision process in the case of existing IMT-2000 technologies

Different types of updates can occur: the sub-sections (and their combinations) attempt to cover all possible cases.

Updates requiring a modification of the GCS or the DIS

In the case that a proposed update is a revision of an RIT or SRIT that proposes a modification of the GCS or DIS hence requiring a Certification B (section 1, section 2, and section 3, as appropriate), the following must be submitted to WP 5D by the ***GCS Proponent***:

1) announcement of a proposed update;

2) a summary of the proposed update, including the rationale for the proposed update;

3) the detailed update, including the relevant templates (as per Document IMT-2000/4, specifically Circular Letter 8/LCCE/47 and its Attachments) and any related supporting material, given that the full context of the total terrestrial radio interface is considered to be the original submission and any previously approved updates as well as this proposed update.

Working Party 5D can then conclude that the overall ***GCS Proponent***’s submitted update material, including the GCS or DIS and the Certifications, is self-consistent and that the proposed Revision continues to meet the IMT-2000 requirements, in which case the proposed update can proceed through the remaining portion of the update process.

A update process requires that the update begin in the later part of the prior year in order for the cycle to complete in time to submit the draft revision into the Study Group 5 meeting for approval assuming the typical year-end Study Group meeting cycle.

For the case where a GCS is utilized, Table 1 in Annex 1 outlines the update cycle framework, from announcement of the start of the update window until the completion in WP 5D and subsequent submission of the draft revision of Recommendation ITU-R M.1457 to Study Group 5.

Working Party 5D provides opportunity for the ***GCS Proponent*** and the ***Transposing Organization*** to provide advanced notification to WP 5D of their coordinated selection of the relevant “X+2” meeting for the Revised GCS based on their schedules which can result in a window of transposition that can be from approximately 3 to 6 months. The “X+2” meeting alternative can, for a particular technology update, be either the “X+2A” or “X+2B” WP 5D meeting timeframe. In the absence of an advance notification selecting “X+2A”, “X+2B” will be the assumed selection. Figure 1 provides an illustration of this flexible X+2 approach for the GCS. It is clarified that in case alternative “X+2A” is chosen, it is not precluded to revisit the coordinated selection of the relevant “X+2” between the ***GCS Proponent*** and the ***Transposing Organization****,* and opting for alternative “X+2B”, thus submitting a new complete update in Item 7, “X+2B” meeting timeframe.

For the case where no GCS is utilized, Table 2 in Annex 1 outlines the update cycle framework, from announcement of the start of the update window until the completion in WP 5D and subsequent submission of the draft revision of Recommendation ITU-R M.1457 to Study Group 5.

Updates not requiring a modification of the GCS or DIS:

Scenario 1 - The case of a revised Overview, revised synopsis, or other material in Recommendation ITU-R M.1457 under the purview of the *GCS Proponent*

In the case that a proposed update is a revision of the Overview, and/or synopsis or other material of an existing RIT or SRIT that does not require a modification of the GCS or DIS, the ***GCS proponent*** needs to submit to WP 5D:

1) announcement of a proposed update;

2) a summary of the proposed changes, and the rationale for those changes;

3) the detailed changes, and a self-declaration indicating that those changes are consistent with the existing GCS or DIS.

In Scenario 1, no Certification is required. This process should follow the schedule in Table 1 or 2.

Scenario 2 - The case of a new Transposing Organization(s), or removal of a Transposing Organization(s)

In the case that only the ***Transposing Organizations*** for the RIT or SRIT are changed, ***GCS proponent*** must re-submit Certification B, Section 2 and/or section 3, as appropriate. This process should follow the schedule in Table 1, starting from meeting X+2A or X+2B.

Scenario 3 - The case of update of only a specific set or sets of the transposition references

In the case that only a specific set or sets of transposition references are updated, the relevant Transposing Organization(s) should announce this update to WP 5D: this process should follow the schedule in Table 1, starting from meeting X+2A or X+2B. The Transposing Organization(s) must provide at the same time of the announcement the complete update information, including a summary and rationale of the proposed update, the updated specific set or sets of the transposition references, and Certification C. At the same meeting as the announcement by the Transposing Organization (s), the ***GCS Proponent*** must inform WP 5D of their agreement with the proposed update.

NOTE - Scenarios 2 and 3 are not applicable to the case where a DIS is utilized.

# 4 Completion of Relevant Business Matters

Recommendation ITU-R M.1457 utilizes references to external material in conjunction with Resolution ITU-R 9-4 following the IMT-2000 process delineated in Documents IMT‑2000/1 and IMT‑2000/2 and related correspondence.

IMT-2000/2 in Section III also outlines criteria and obligations for the ***GCS Proponent*** and the ***Transposing Organizations*** particularly with regard to complying with Resolution ITU-R 9-4.

It is critical to the successful conclusion of the Revisions of Recommendation ITU-R M.1457 that the necessary business and administrative matters outlined in IMT-2000/2 and Resolution ITU-R 9‑4, including the Guidelines associated with Resolution ITU-R 9-4 (Liaison and collaboration with other organizations) and the ***GCS Proponents*** and the ***Transposing Organizations*** be completed.

As appropriate, the Radiocommunication Bureau should contact the ***GCS Proponents*** and the ***Transposing Organizations*** to put these necessary business and administrative arrangements in place in due time, not later than the deadline established for Item 9 in Table 1 or Item 8 in Table 2.

The following links provide further background on this point.

− ITU-R Resolution 9-4: <http://www.itu.int/pub/R-RES-R.9-4-2012>.

− Guidelines for the contribution of material of other organizations to the work of the Study Groups and for inviting other organizations to take part in the study of specific matters: <http://www.itu.int/oth/R0A01000002/en>.

# 5 References

Document IMT-2000/1 (“Submission and evaluation process and consensus building for future development of IMT-2000”).

Document IMT-2000/2 (“Process and the use of Global Core Specification (GCS), references, and related certifications in conjunction with future revisions of Recommendation ITU-R M.1457”).

Document IMT-2000/4 (“Historical Documents related to Recommendation ITU-R M.1457 update process”).

Recommendation ITU-R M.1457 (“Detailed specifications of the terrestrial radio interfaces of IMT‑2000”).

Recommendation ITU-R M.1225 (“Guidelines for Evaluation of Radio Transmission Technologies for IMT-2000”)

ANNEX 1

TABLE 1

Framework of a Revision Cycle for updates of existing technologies in Recommendation   
ITU-R M.1457 applicable to Section 3 in case when a GCS is utilized

| Item | Entity | Meeting designation & timeframe | Action/Deliverable/Milestone |
| --- | --- | --- | --- |
| **1** | **WP 5D** | Meeting “X-1” or earlier (Approximately February prior year or earlier) | Communiqué to ***GCS Proponent****,* ***Transposing Organizations****, and relevant External Organizations* announcing the next revision of Rec. ITU‑R M.1457 and providing the detailed timelines for the revision. |
| **2** | ***Existing GCS Proponent*** | Meeting “X” (Approximately June prior year) | Delivery to ITU-R by existing ***GCS Proponent*** of the initial announcement that a revision to a particular RIT or SRIT will be proposed.[[2]](#footnote-2)\* |
| **3** | **WP 5D** | Meeting “X” (Approximately June  of prior year) | WP 5D review of submitted materials and opportunity for responding to ***GCS Proponents***. |
| **4** | ***Existing GCS Proponent*** | Meeting “X+1” (Approximately October  of prior year) | Delivery to ITU-R by the ***GCS Proponent***of further information, including a summary and rationale of the proposed update.\* |
| **5** | **WP 5D** | Meeting “X+1” (Approximately October  of prior year) | WP 5D review of submitted materials and opportunity for responding to ***GCS Proponents***. |
| **6** | ***Existing GCS Proponent or Existing Transposing Organization (Scenario 3 only)*** | Meeting “X+2A” **Alternative 1** (Approximately February of current revision year) | *Case requiring a modification of the GCS*  Delivery to ITU-R by the ***GCS Proponent*** of the detailed update, including the relevant templates (as per Document IMT-2000/4, specifically Circular Letter 8/LCCE/47 and its Attachments) and any related supporting material for the proposed update to Rec. ITU‑R M.1457, given that the full context of the total terrestrial radio interface is considered to be the original submission and any previously approved updates as well as this proposed update.  Delivery to ITU-R by the ***GCS Proponent*** of the revised/updated GCS.  Delivery to ITU-R of Certification B (section 1, section 2, and section 3, as appropriate) by ***GCS Proponents***.  *Cases not requiring a modification of the GCS*  *Scenario 1 - Case of a revised Overview, synopsis, or other material in Rec. ITU‑R M.1457:*  Delivery to ITU-R by the ***GCS Proponent*** of the update of the associated material and a self-declaration indicating that those changes are consistent with existing GCS.  *Scenario 2 - Case of a new* ***Transposing Organization(s)*** *or removal of a Transposing Organization(s)*  Delivery to ITU-R of Certification B, section 2, and/or section3, by ***GCS Proponents***.  *Scenario 3 – Case of update of only a particular set or sets of the transposition references*  Delivery to ITU-R by the ***Transposing Organization*** of the complete update information, including a summary and rationale of the proposed update, the updated specific set or sets of the transposition references, and Certification C. At the same meeting as the announcement by the Transposing Organization (s), the ***GCS Proponent*** must inform WP 5D of their agreement with the proposed update. |
| **7** | ***Existing GCS Proponent or Existing Transposing Organization (Scenario 3 only)*** | Meeting “X+2B” **Alternative 2** (Approximately June of current revision year) | *Case requiring a modification of the GCS*  Delivery to ITU-R by the ***GCS Proponent*** of the detailed update, including the relevant templates (as per document IMT-2000/4, specifically Circular Letter 8/LCCE/47 and its Attachments) and any related supporting material for the proposed update to Rec. ITU‑R M.1457, given that the full context of the total terrestrial radio interface is considered to be the original submission and any previously approved updates as well as this proposed update.  Delivery to ITU-R by the ***GCS Proponent*** of the revised/updated GCS.  Delivery to ITU-R of Certification B (section 1, section 2, and section 3, as appropriate) by ***GCS Proponents***.  *Cases not requiring a modification of the GCS*  *Scenario 1 - Case of a revised Overview, synopsis, or other material in Rec. ITU‑R M.1457:*  Delivery to ITU-R by the ***GCS Proponent*** of the update of the associated material and a self-declaration indicating that those changes are consistent with existing GCS.  *Scenario 2 - Case of a new Transposing Organization(s) or removal of a Transposing Organization(s)*  Delivery to ITU-R of Certification B, section 2, and/or section3, by ***GCS Proponents***.  *Scenario 3 – Case of update of only a particular set or sets of the transposition references*  Delivery to ITU-R by the ***Transposing Organization*** of the complete update information, including a summary and rationale of the proposed update, the updated specific set or sets of the transposition references, and Certification C. At the same meeting as the announcement by the Transposing Organization (s), the ***GCS Proponent*** must inform WP 5D of their agreement with the proposed update. |
| **8** | **WP 5D** | Meeting “X+2A” or “X+2B” (Approximately February or June of current  revision year) | WP 5D performs a review of the submitted material and reaches its conclusion on the acceptability of the proposed update for inclusion in the draft revision of Rec. ITU-R M.1457.  WP 5D finalizes and agrees the specific technology update in the draft revision of Rec. ITU‑R M.1457 (not necessarily including the detailed transposition references).  WP 5D liaison of the WP 5D agreed draft Revision of Rec. ITU-R M.1457 to the relevant ***GCS Proponents*** and ***Transposing Organizations*** for their use in developing their inputs of the detailed references.  Note: In any event, the WP 5D meeting (“X+2B”) will finalize the entirety of the preliminary WP 5D agreed draft revision of Rec. ITU-R M.1457 for all updated technologies (not necessarily including the detailed transposition references). |
| **9** | ***Transposing Organizations*** | Due to ITU-R approximately one month prior to the subsequent Meeting (Approximately September of current revision year) | Delivery to ITU-R of transposition references by each ***Transposing Organization*** for incorporation into the WP 5D preliminary agreed draft revision of Rec. ITU-R M.1457.  Delivery to ITU-R of Certification C by each ***Transposing Organization****.*  Completion of relevant business matters and indication of compliance with ITU policy on IPR, as appropriate  *This Item 9 does not apply to case of a Scenario 1 update.  In case of Scenario 3, Item 9 does not apply because the Transposing Organization would have already provided the complete information by meeting “X+2A” or “X+2B”* |
| **10** | **Radiocommunication Bureau** | Prior to the subsequent meeting | The Radiocommunication Bureau is requested to provide to WP 5D a document that incorporates the transposition references |
| **11** | **WP 5D** | Subsequent Meeting (Approximately October of current revision year) | WP 5D performs a final quality and completeness check of the draft revision of Rec. ITU-R M.1457.  WP 5D forwards to Study Group 5 the Revision of Rec. ITU-R M.1457. |
| **12** | **Radiocommunication Bureau** | (Approximately November/December of current revision year) | Submission by Counsellor for SG 5 of completed draft revision of Rec. ITU-R M.1457 (with all transposition references) to SG 5, based on currently anticipated SG 5 meeting schedule. |
| **13** | **Study Group 5** | (Approximately November/December of current revision year) | Study Group 5 considers adoption of the revision of Rec. ITU-R M.1457 for forwarding to Member States for approval. |

TABLE 2

**Framework of a Revision Cycle for updates of existing technologies in Recommendation ITU-R M.1457 applicable to Section 3 in case where a GCS is not utilized**

| **Item** | **Entity** | **Meeting designation & timeframe** | **Action/Deliverable/Milestone** |
| --- | --- | --- | --- |
| **1** | **WP 5D** | Meeting “X-1” or earlier (Approximately February prior year or earlier) | Communiqué to ***GCS Proponent***,and relevant *External Organizations* announcing the next revision of Rec. ITU-R M.1457 and providing the detailed timelines for the revision. |
| **2** | ***Existing GCS Proponent*** | Meeting “X” (Approximately June prior year) | Delivery to ITU-R by existing ***GCS Proponent***of the initial announcement that a revision to a particular RIT or SRIT will be proposed. |
| **3** | **WP 5D** | Meeting “X” (Approximately June of prior year) | WP 5D review of submitted materials and opportunity for responding to ***GCS Proponents***. |
| **4** | ***Existing GCS Proponent*** | Meeting “X+1” (Approximately October  of prior year) | Delivery to ITU-R by the ***GCS Proponent***of further information, including a summary of the proposed update and the rationale for the proposed update. |
| **5** | **WP 5D** | Meeting “X+1” (Approximately October  of prior year) | WP 5D review of submitted materials and opportunity for responding to ***GCS Proponents***. |
| **6** | ***Existing GCS Proponent*** | Meeting “X+2B”  (Approximately June of current revision year) | *Case requiring a modification of the DIS*  Delivery to ITU-R by the ***GCS Proponent*** of the detailed update, including the relevant templates (as per Document IMT-2000/4, specifically Circular Letter 8/LCCE/47 and its Attachments) and any related supporting material for the proposed update to Rec. ITU‑R M.1457, given that the full context of the total terrestrial radio interface is considered to be the original submission and any previously approved updates as well as this proposed update.  Delivery to ITU-R by ***GCS Proponent*** of the revised/updated DIS.  Delivery to ITU-R of Certification B (section 1) by ***GCS Proponents***.  *Scenario 1 Case of a revised Overview, synopsis, or other material in Rec. ITU-R M.1457 not requiring a modification of the DIS*  Delivery to ITU-R by the ***GCS Proponent*** of the update of the associated material and a self-declaration indicating that those changes are consistent with existing DIS. |
| **7** | **WP 5D** | Meeting “X+2B”  (Approximately June of current revision year) | WP 5D performs a review of the submitted material and reaches its conclusion on the acceptability of the proposed update for inclusion in the draft revision of Rec. ITU-R M.1457.  WP 5D finalizes and agrees the specific technology update in the draft revision of Rec. ITU‑R M.1457.  WP 5D liaison of the WP 5D agreed draft revision of Rec. ITU-R M.1457 to the relevant ***GCS Proponents.*** |
| **8** | ***GCS Proponents*** | Due to ITU-R approximately one month prior to the subsequent Meeting (Approximately September of current revision year) | Completion of relevant business matters and indication of compliance with ITU policy on IPR, as appropriate |
| **9** | **WP 5D** | Subsequent Meeting  (Approximately October of current revision year) | WP 5D performs a final quality and completeness check of the draft revision of Rec. ITU-R M.1457.  WP 5D forwards to Study Group 5 the revision of Rec. ITU-R M.1457. |
| **10** | **Radiocommunication Bureau** | (Approximately November/December of current revision year) | Submission by Counsellor for SG 5 of completed draft revision of Rec. ITU-R M.1457 to SG 5, based on currently anticipated SG 5 meeting schedule. |
| **11** | **Study Group 5** | (Approximately November/December of current revision year) | Study Group 5 considers adoption of the revision of Rec. ITU-R M.1457 for forwarding to Member States for approval. |

Figure 1

**Flexible X+2 GCS Timing Illustration**



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1. Certain specific aspects of Circular Letter 8/LCCE/47 and 8/LCCE/95 are superseded in Document IMT-2000/1. [↑](#footnote-ref-1)
2. \* Required in case of an update of the GCS or in the case of a revised Overview, revised synopsis, or other material in Recommendation ITU-R M.1457 under the purview of the ***GCS Proponent***. [↑](#footnote-ref-2)