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| **Radiocommunication Study Groups** |  |
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| Source: Document 5D/TEMP/506 | **Document IMT-2020/72-E** |
| **9 November 2021** |
| **English only** |
| Working Party 5D | |
| Evaluation by Wireless World Research Forum IEG of IMT-2020 candidate technology submissions in Documents IMT‑2020/17(Rev.1) and IMT-2020/18(Rev.1) | |
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This document summarizes the evaluation results and activities *from Option 2 in the Re-evaluation Process,* identified for the IMT-2020 candidate technology submissions in Documents [IMT‑2020/17(Rev.1)](https://www.itu.int/md/R15-IMT.2020-C-0017/en) and [IMT-2020/18(Rev.1)](https://www.itu.int/md/R15-IMT.2020-C-0018/en) from Wireless World Research Forum IEG*.*

# 1 Background

The period from November 2020 (the 36*bis* meeting of Working Party 5D) to June 2021 (the 38thmeeting of Working Party 5D) has been designated for evaluation of the IMT-2020 candidate technology submissions by Independent Evaluation Groups.

The Wireless World Research Forum IEG is a registered Independent Evaluation Group. At the WG TECHNOLOGY ASPECTS (Option 2) meeting of Working Party 5D, an Evaluation Report on IMT-2020 candidate technology submissions in Documents IMT-2020/17(Rev.1) and IMT‑2020/18(Rev.1) was submitted by Wireless World Research Forum IEG (Doc. [5D/736](https://www.itu.int/md/R19-WP5D-C-0736/en) and [5D/743](https://www.itu.int/md/R19-WP5D-C-0743/en)). Before the 39th meeting of Working Party 5D, an Evaluation Report on the candidate technology submission in Document IMT‑2020/18(Rev.1) as part of the re-engagement in Step 4 evaluation was submitted (Doc. [5D/760](https://www.itu.int/md/R19-WP5D-C-0760/en)). Working Party 5D has reviewed the evaluation report and will consider it further in the IMT-2020 development re‑evaluation process.

# 2 Evaluation summary for DECT-2020 NR RIT component for IMT‑2020 candidate technology in Document [IMT-2020/17(Rev.1)]

## 2.1 Use of information in Report ITU-R M.2412

Does Independent Evaluation Group confirm use of Report ITU-R M.2412 in their work?

🗹 Yes 🞎 No

## 2.2 Provision of compliance templates

Provision of compliance template for services (Section 5.2.4.1 of Report ITU-R M.2411)

🗹Yes 🞎 No

Provision of compliance template for spectrum (Section 5.2.4.2 of Report ITU-R M.2411)

🗹Yes 🞎 No

Provision of compliance template for technical performance (Section 5.2.4.3 of Report ITU-R M.2411)

🗹 Yes 🞎 No

## 2.3 Summary of conclusions of the evaluation report

Does the Evaluation Report indicate that the candidate technology meets minimum service and spectrum requirements?

Service requirements: 🗹 Yes 🞎 No

Spectrum requirements: 🗹 Yes 🞎 No

Which test environments have been considered in the evaluation report? What is outcome of the evaluation?

|  |  |
| --- | --- |
| Test environment | Does the evaluation report indicate that the minimum technical performance requirements are met in the test environment? |
| 🞎 Urban Macro – mMTC | 🗹 Yes 🞎 No |
| 🞎 Urban Macro – URLLC | 🗹 Yes 🞎 No |

## 2.4 Additional evaluation methodologies and assumptions

Have any additional evaluation methodologies or assumptions that had not been included in the Report ITU-R M.2412 been used in evaluation?

🗹 Yes\* 🞎 No

\* A simulation methodology framework for evaluating connection density in mMTC using relays was introduced.

# 3 Evaluation summary for [EUHT RIT] for IMT-2020 candidate technology in Document(s) [IMT-2020/18 Rev.1]

[Editor’s note: Each section in this template is for one RIT; the section will be extended when there is SRIT with more than one component RITs. And for each component RIT, the same format for RIT is applied.]

[Editor’s note: One section for one RIT or one component RIT in case of SRIT per candidate technology, even if there are more than one Documents IMT-2020/YYY]

## 3.1 Use of information in Report ITU-R M.2412

Does Independent Evaluation Group confirm use of Report ITU-R M.2412 in their work?

🗹 Yes 🞎 No

## 3.2 Provision of compliance templates

Provision of compliance template for services (Section 5.2.4.1 of Report ITU-R M.2411)

🗹 Yes 🞎 No

Provision of compliance template for spectrum (Section 5.2.4.2 of Report ITU-R M.2411)

🗹 Yes 🞎 No

Provision of compliance template for technical performance (Section 5.2.4.3 of Report ITU-R M.2411)

🗹 Yes 🞎 No

## 3.3 Summary of conclusions of the evaluation report

Does the Evaluation Report indicate that the candidate technology meets minimum service and spectrum requirements?

Service requirements: 🗹 Yes 🞎 No

Spectrum requirements: 🗹 Yes 🞎 No

Which test environments have been considered in the evaluation report? What is outcome of the evaluation?

|  |  |
| --- | --- |
| Test environment | Does the evaluation report indicate that the minimum technical performance requirements are met in the test environment? |
| 🞎 Indoor Hotspot – eMBB | 🞎 Yes 🞎 No |
| 🞎 Dense Urban – eMBB | 🞎 Yes 🞎 No |
| 🞎 Rural – eMBB | 🞎 Yes 🞎 No |
| 🞎 Urban Macro – mMTC | 🞎 Yes 🞎 No |
| 🗹 Urban Macro – URLLC | 🞎 Yes 🗹 No |

## 3.4 Additional evaluation methodologies and assumptions

Have any additional evaluation methodologies or assumptions that had not been included in the Report ITU-R M.2412 been used in evaluation?

🞎 Yes 🗹 No

# 4 Evaluation Report for IMT-2020/17(Rev.1)



# 5 Evaluation Report for IMT-2020/18(Rev.1)

[Editor’s note: Include a final Evaluation Report from IMT-2020/k of this Independent Evaluation Group or attach a final Evaluation Report submitted by Independent Evaluation Group.]



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