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| **Radiocommunication Study Groups** |  |
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| Received: 24 January 2018 | **Document 5D/838-E** |
| **24 January 2018** |
| **English only** |
|  | **TECHNOLOGY ASPECTS** |
| China (People’s Republic of) |
| initial submission of candidate technology forIMT-2020 radio interface |
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# 1 **Introduction**

This document is in response to the first invitation for submission of proposals for candidate radio interface technologies (RITs) or a set of RITs (SRITs) for the terrestrial components of IMT-2020 which was issued with Circular Letter [5/LCCE/59](http://www.itu.int/md/R00-SG05-CIR-0059/en) released on 22 March 2016.

This document provides an initial technology submission towards IMT-2020 radio interface based on 3GPP development. The development is in accordance with the Documents and Reports developed by ITU-R that are related to IMT-2020 submission, including

– Document [IMT-2020/01](https://www.itu.int/md/R15-IMT.2020-C-0001/en) *IMT-2020 Background,*

– Document [IMT-2020/02(Rev.1)](https://www.itu.int/md/R15-IMT.2020-C-0002/en) *Submission and evaluation process and consensus building for IMT-2020,*

– Report [ITU-R M.2411](http://www.itu.int/pub/R-REP-M.2411) – *Requirements, evaluation criteria and submission templates for the development of IMT-2020*,

– Report [ITU-R M.2410](http://www.itu.int/pub/R-REP-M.2410) – *Minimum requirements related to technical performance for IMT-2020 radio interface(s)*,

– Report [ITU-R M.2412](https://www.itu.int/pub/R-REP-M.2412) – *Guidelines for evaluation of radio interface technologies for IMT-2020*.

In this document, China provides the initial characteristics template of the candidate technology for the terrestrial components of IMT-2020.

The initial characteristics template is based on 3GPP (RP-172789) and includes the key characteristics description according to the latest progress in 3GPP. The provided template description reflects the current development of the major component, and does not preclude other component(s) that might be included in later update.

Besides, the template has chosen to address the characteristics that are viewed to be very crucial to assist in evaluation activities for independent evaluation groups, as well as to facilitate the understanding of the state-of-art of development towards IMT-2020.

It is noted that this initial submission is not a complete submission, and other required items for the complete submission for the first invitation (including self-evaluation and IPR statement) will be provided at a later date, and further changes and revisions to this initial technology submission might be made according to the development and consideration to meet IMT-2020 requirements.

This submission follows the ITU-R IMT-2020 submission format and guidelines as defined in Report [ITU-R M.2411](http://www.itu.int/pub/R-REP-M.2411).

China kindly invites WP 5D to view this proposed format of the submission that meets the submission process and the submission guidelines and templates established in Document [IMT-2020/02(Rev.1)](https://www.itu.int/md/R15-IMT.2020-C-0002/en), Report [ITU-R M.2411](http://www.itu.int/pub/R-REP-M.2411), and other related documents in the IMT-2020 process.

# **2 Initial characteristics template**

The initial characteristics template is provided in the attachment.

**Attachment:** NR RIT description template



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