Attachment 5.5 TO Document 5D/300

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Structure of a PRELIMINARY DRAFT NEW  
REPORT ITU-R M.[IMT.FUTURE TECHNOLOGY TRENDS]

Future technology trends of terrestrial IMT systems

# 1 Introduction

*[Note: This section gives brief introductions of IMT-2000 and IMT-Advanced specifications and systems, and also brief introductions of the related WRC-12 Resolutions and WRC-15 Agenda items, and brief summaries of the future traffic and market trends.]*

# 2 Scope

*[Note: This section gives the scope of the report.]*

# 3 Related documents

*[Note: A list of related documents.]*

# 4 Consideration on the technology trends

*[Note: Driving factors to require improvement of technologies, e.g., wider bandwidth, lower/higher frequency, high traffic demands, potential new applications and services etc.]*

# 5 Overview of the technology trends

*[Note: Specific sub-sections should be discussed after having contributions on technologies. Classification on technologies might be considered as following examples while contributions should not be necessarily limited to those examples.]*

## 5.1 Technologies to enhance the efficient usage of frequency

*[Technologies for higher spectrum efficiency (e.g. higher order antenna solutions), technologies for improving spectrum use (e.g. providing shared spectrum access and dynamic spectrum management)]*

## 5.2 Technologies to support broader frequency ranges and more deployment scenarios

*[Technologies for lower and higher frequency bands relative to current IMT bands,* *technologies for wider bandwidth, technologies for new coverage and application scenarios, technologies for very dense deployments, etc.]*

## 5.3 Technologies to support wide range of services and to provide better user experience

*[5.3.1 Technologies to support the proximity services*

*5.3.2 Technologies to support the M2M*

*5.3.3 Cell edge enhancement*

*5.3.4 Quality of service enhancement*

*5.3.5 Mobile video enhancement*

*5.3.6 Enhanced broadcast and multicast*

*5.3.7 Positioning*

*5.3.x Other technologies]*

## 5.4 Technologies to improve energy efficiency

*[Energy saving and green ICT, etc.]*

## 5.5 Terminal Technologies

*[User terminal technology trends.]*

## 5.6 Technologies to simplify management and improve network reliability

*[Management of denser networks, self-management, self-configuration, self-optimisation, management of shared networks.]*

## 5.7 Technologies to support ease of deployment and increase network reach

*[Wireless backhaul, mobile relays, multi-hop.]*

## 5.8 Technologies to enhance privacy and security

*[Info security, better encryption, personalization service offerings.]*

## 5.x others

*[Other technologies.]*

# 6 Conclusion

*[Note: Conclusions of the future IMT technology trends.]*

# 7 Terminology, abbreviations

# 8 Reference

Annex 1

*[Note: Detail information for each technology trend.]*

Annex 2

*[Note: Detail information for each technology trend.]*