|  |  |
| --- | --- |
| **Radiocommunication Study Groups** |  |
|  |  |
|  |  |
| Source: Document 5A/TEMP/231Subject: Question ITU-R 205-5/5 | **Annex 20 to****Document 5A/543-E** |
| **4 June 2014** |
| **English only** |
| Annex 20 to Working Party 5A Chairman’s Report  |
| Draft Working document toward a preliminary new report ITU-R M.[ITS usage] |
| Intelligent transport systems usage report in ITU-R member countries |

(Question ITU-R 205-5/5)

TABLE OF CONTENTS

1 Introduction

2 Background

3 Related documents

4 List of acronyms and abbreviations

5 Overview of ITS radiocommunication and vehicular radar

 5.1 ITS radiocommunication

 5.1.1 Terms and definitions

 5.1.2 Technical characteristics

 5.2 Vehicular radar

 5.2.1 Terms and definitions

 5.2.2 Technical characteristics

6 Advanced ITS radiocommunications

 6.1 Overview

 6.1.1 Technical characteristics

 6.1.2 Frequency usage

 6.1.3 Standardization

 6.1.4 Applications

 6.2 Europe

 6.2.1 Technical characteristics

 6.2.2 Frequency usage

 6.2.3 Standardization

 6.2.4 Applications

 6.3 North America

 6.3.1 Technical characteristics

 6.3.2 Frequency usage

 6.3.3 Standardization

 6.3.4 Applications

 6.4 Asia-Pacific

 6.4.1 Technical characteristics

 6.4.2 Frequency usage

 6.4.3 Standardization

 6.4.4 Applications

7 Millimeter-wave vehicular radar

 7.1 Overview

 7.1.1 Technical characteristics

 7.1.2 Frequency usage

 7.1.3 Standardization

 7.1.4 Applications

 7.2 Europe

 7.2.1 Technical characteristics

 7.2.2 Frequency usage

 7.2.3 Standardization

 7.2.4 Applications

 7.3 North America

 7.3.1 Technical characteristics

 7.3.2 Frequency usage

 7.3.3 Standardization

 7.3.4 Applications

 7.4 Asia-Pacific

 7.4.1 Technical characteristics

 7.4.2 Frequency usage

 7.4.3 Standardization

 7.4.4 Applications

8 Conclusions

*[Editor’s note: All the texts may be addressed in future contributions to this document.]*

# 1 Introduction

This report addresses the usages of ITS radiocommunication applications, such as vehicle to infrastructure, vehicle to vehicle, vehicle to pedestrian communications for road safety applications and vehicular radars for collision avoidance in ITU-R Member countries.

# 2 Background

Asia-Pacific Telecommunity (APT) already published an APT Report on “The usage of intelligent transport systems in APT Countries” ([APT/AWG/REP-18 (Rev.1)](file:///C%3A%5CUsers%5CSamOyama%5CDesktop%5C140318_Pataya_16th%20AWG%5CAWG%E5%AF%BE%E7%AD%96%E9%80%A3%E7%B5%A1%E4%BC%9A%E8%AD%B0%5CAPT-AWG-REP-18-R1-APT_Report_on_Usage_of_ITS%20%283%29.docx)) which APT contributed to WP 5A in May 2013 (Document [5A/223](file:///C%3A%5CUsers%5CSamOyama%5CDesktop%5C140318_Pataya_16th%20AWG%5CAWG%E5%AF%BE%E7%AD%96%E9%80%A3%E7%B5%A1%E4%BC%9A%E8%AD%B0%5CR12-WP5A-C-0223%21%21MSW-E%20%281%29.docx)).

# 3 Related documents

ITU-R Recommendations:

ITU-R M.1890 Intelligent transport systems – Guidelines and objectives

ITU-R M.1452 Millimetre wave radiocommunication systems for Intelligent Transport Systems applications

ITU-R M.1453 Intelligent Transport Systems – dedicated short-range communications at 5.8 GHz

ITU-R M.2057 Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications

ITU-R Report:

ITU-R M.2228 Advanced intelligent transport systems (ITS) radiocommunications

ITU-R Handbook:

 Land Mobile (including Wireless Access) - Volume 4:
 Intelligent Transport Systems

Other related documents:

 [To be listed]

# 4 List of acronyms and abbreviations

ARIB Association of Radio Industries and Businesses

ATIS Alliance for Telecommunications Industry Solutions

ECC Electronic Communications Committee

ETSI European Telecommunications Standards Institute

IEEE Institute of Electrical and Electronics Engineers

ITS Intelligent Transport Systems

TIA Telecommunications Industry Association

TTA Telecommunication Technology Association

# 5 Overview of ITS radiocommunication and vehicular radar