

# 1 INTRODUCTION

Association of Radio Industries and Businesses (hereinafter ARIB) investigates and summarizes the basic technical requirements for various radio systems in the form of “technical standard (ARIB STD)”. These standards are being developed with the participation of, and through discussions amongst various radio equipment manufacturers, operators and users.

ARIB standards include “government technical standards” (mandatory standards) that are set for the purpose of encouraging effective use of frequency resources and preventing interference, and “private technical standards” (voluntary standards) that are defined in order to guarantee compatibility between radio facilities, to secure adequate transmission quality as well as to offer greater convenience to radio equipment manufacturers and users, etc.

This standard is developed for the “LTE-Advanced System”. In order to develop a globally common standard, ARIB adopted the specifications drafted by the Third Generation Partnership Project (3GPP; a group formed by regional standard development organizations such as ARIB, CCSA<sup>1</sup>, ETSI<sup>2</sup>, ATIS<sup>3</sup>, TTA<sup>4</sup>, TTC<sup>5</sup> to jointly study the technical specifications), which was participated by the world’s radio equipment manufacturers, telecommunications operators, and users, etc.

ARIB sincerely hopes that this standard be utilized actively by radio equipment manufacturers, telecommunications operators, and users, etc.

<sup>1</sup>China Communications Standards Association (China)

<sup>2</sup>European Telecommunication Standards Institute (Europe)

<sup>3</sup>ATIS Alliance for Telecommunication Industry Solutions (America)

<sup>4</sup>Telecommunications Technology Association (Korea)

<sup>5</sup>Telecommunication technology Committee (Japan)

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Note: Since the national regulatory requirements applicable to the IMT-Advanced radio system have not yet been set forth, this ARIB standard shall not practically be used for manufacturing, installation and operation of the LTE-Advanced System in Japan. It is therefore anticipated that this standard will be revised in response to the implementation of the relevant national regulations.