IEEE Proposes IMT-Advanced Candidate Based on IEEE 802.16™

PISCATAWAY, N.J.--(BUSINESS WIRE)--The IEEE today announced that it has submitted a candidate radio interface technology for IMT-Advanced standardization in the Radiocommunication Sector of the International Telecommunication Union (ITU-R).

The proposal is based on IEEE standards project 802.16m™, the "Advanced Air Interface" specification under development by the IEEE 802.16™ Working Group on Broadband Wireless Access. The proposal documents that it meets ITU-R's challenging and stringent requirements in all four IMT-Advanced "environments": Indoor, Microcellular, Urban, and High Speed. The proposal will be presented at the 3rd Workshop on IMT-Advanced in Dresden on 15 October in conjunction with a meeting of ITU-R Working Party 5D.

IEEE's proposal is a result of cooperation with multiple ecosystem participants. To date, the 802.16m working group has held 17 meetings with over 1200 professionals affiliated with 200+ organizations from 23 countries. Over 4000 documents have been contributed toward the development of the project. Participants have also contributed directly toward the IMT-Advanced submission by proposing content for the technology description as well as offering evaluations and detailed simulations of the technology for use in the development of IEEE's self-evaluation.

The IEEE 802.16 Working Group is interactively engaged with external organizations, including the WiMAX Forum, Japan's ARIB, and Korea's TTA, to develop a coordinated view regarding IEEE's IMT-Advanced proposal. Recently, IEEE signed agreements with the Association of Radio Industries and Businesses (ARIB) and Telecommunications Technology Association (TTA) directed at fostering cooperation regarding IEEE 802.16 and IMT-Advanced.

IEEE expects to remain engaged with ITU-R during the deliberative development of the IMT-Advanced recommendations. In preparation for the next phase in this process, IEEE has invited independent evaluation groups to engage in a dialog aimed at providing them with a better understanding of the technology and the self-evaluation and offering them opportunities to comment on the developing P802.16m draft standard. To aid this communication, a web page has been established <http://ieee802.or/16/imt-adv>, and a workshop – the *IEEE 802.16m IMT-Advanced Evaluation Group Coordination Meeting* – is scheduled for 13 January 2010 in San Diego, CA, USA.

The IEEE 802.16m project represents the next advance in the development of IEEE 802.16. The standard, which has specified the air interface of broadband wireless access systems since 2001, introduced full mobility with the IEEE 802.16e amendment approved in 2005, technology that is already included in ITU-R's IMT-2000 standard. The 802.16m amendment provides for backward compatibility with legacy 802.16e infrastructure and terminal equipment. The IEEE 802.16m project, authorized in December 2006, has been progressing steadily, and the draft standard is currently in ballot. Completion is expected in 2010.

The interest generated in IEEE standards project 802.16m is testament to the keen industry awareness of the ITU-R IMT-Advanced program. IEEE is committed to contribute to the success of IMT-Advanced in enabling worldwide adoption of advanced mobile broadband technologies.

About the IEEE 802.16 Working Group

The IEEE 802.16 Working Group on Broadband Wireless Access has completed 17 standards projects since 2001 toward the development and evolution of the IEEE 802.16 WirelessMAN® Standard for Wireless Metropolitan Area

Networks. The Working Group currently has 437 individual members. It typically meets six times a year, around the globe. For details, see http://wirelessman.org.

About the IEEE Standards Association

The IEEE Standards Association, a globally recognized standards-setting body, develops consensus standards through an open process that engages industry and brings together a broad stakeholder community. IEEE standards set specifications and best practices based on current scientific and technological knowledge. The IEEE-SA has a portfolio of over 900 active standards and more than 400 standards under development. For information on the IEEE-SA, see: http://standards.ieee.org.

About the IEEE

IEEE (Institute of Electrical and Electronics Engineers, Inc.), the world's largest technical professional society, is commemorating its 125th anniversary in 2009 by "Celebrating 125 Years of Engineering the Future" around the globe. Through its more than 375,000 members in 160 countries, IEEE is a leading authority on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics. Dedicated to the advancement of technology, IEEE publishes 30 percent of the world's literature in the electrical and electronics engineering and computer science fields, and has developed over 900 active industry standards. The organization annually sponsors more than 850 conferences worldwide. Additional information about IEEE can be found at http://www.ieee.org.

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