



WiMAX Forum® Frequently Asked Questions Development of Mobile WiMAX™ within IMT

www.wimaxforum.org

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Background:

The enclosed messages, questions and answers are intended to update WiMAX Forum® members and the marketplace with the latest information relative to the WiMAX Forum's key messages regarding a recent Board decision to include Frequency Division Duplexing (FDD) and other enhancements within the next proposed routine update of the Mobile WiMAX™ air interface technology within IMT-2000.

The WiMAX Forum Board of Directors in May 2008 approved the submission of WiMAX Forum inputs (coordinated with IEEE 802.16) to the ITU-R Working Party 5D meeting in June 2008 that will propose the evolution of the IMT-2000 OFDMA TDD WMAN in line with agreed aspects of the Release 1.5 Mobile System Profile. This submission will include FDD and will be pursued in cooperation with the IEEE.

The WiMAX Forum is also contributing to the work of the ITU towards the systems beyond IMT-2000, known as "IMT-Advanced."

Key Messages:

- **The WiMAX Forum will pursue enhancement of the Mobile WiMAX air interface within IMT-2000, including FDD capability.**
 - The WiMAX Forum Board of Directors has approved evolving the existing IMT-2000 OFDMA TDD WMAN air interface to include FDD support, in response to recent market demand.
 - Mobile WiMAX TDD is currently included within the IMT-2000 family of standards, and Mobile WiMAX FDD is to be proposed for inclusion later this year as enhancement of the existing air interface.
 - The previous successful application by the IEEE, fully supported by the WiMAX Forum, to secure a profile of the IEEE 802.16e-2005 standard (equivalent to a TDD Mobile WiMAX profile) as the 6th IMT-2000 air interface was also a market driven initiative.
- **The WiMAX Forum as a market driven organization is expanding additional profiles in TDD and FDD to meet market requirements.**
 - In February of this year, the WiMAX Forum announced it has added the 700 MHz frequency range to its technology roadmap. Current market demand indicates that the priorities for additional TDD and FDD profiles are 700 MHz and FDD profiles for the US "AWS" band. The WiMAX Forum is currently working on FDD certification profiles for this spectrum.
 - WiMAX market opportunities, and specifically Mobile WiMAX, are driven by global spectrum band availability for network development as well as the interest of regulators and service providers globally. The WiMAX Forum's product roadmaps and technical specifications are built according to this market demand.

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- The WiMAX Forum will respond to the need for products for specific frequency bands and duplex modes. As such, the WiMAX Forum has always supported, and continues to promote, both TDD and FDD systems. It will provide frequency band specific information to the ITU for the spectrum bands identified by the ITU for IMT-2000/IMT in accordance with market requirements and as relevant new WiMAX certification profiles are agreed.
- **In addition to pursuing the enhancements to IMT-2000, the WiMAX Forum is committed to contributing to the longer-term work of the ITU on IMT-Advanced.**
 - It is envisaged that the IEEE 802.16m in conjunction with the future WiMAX Forum Mobile System Profile 2.0 would be one such candidate technology and would embrace both TDD and FDD schemes.

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