

Call for Contributions: IEEE 802.16's Study Group on Mobile Multi-hop Relay

Deadline: 9 September 2005

On 22 July 2005, the IEEE 802 Executive Committee approved the creation of the IEEE 802.16 Working Group Study Group on Mobile Multi-hop Relay. The charter of the Study Group was approved by the IEEE 802.16 Working Group (see <http://ieee802.org/16/docs/05/80216-05_051.pdf>) and includes the following areas of activities:

- *Assess feasibility of Multi-hop Relay for fixed / mobile terminal including PHY/MAC modifications;*
- *Study the impact on PHY with enhancement of normal frame structure and backward compatibility with 802.16 TGe PMP mode;*
- *Study the impact on MAC protocols to be newly added for the relay networking including handover cases;*
- *Study spectral scenario including frequency reuse and interference among the links between Base station (BS) and Relay station (RS), and ones between RS and Mobile/Subscriber station (MS/SS);*
- *Study the security between BS and Mobile Subscriber station (MS) via RS;*

Contributions addressing the above topics are requested. The contribution should provide:

- *Ideas for usage and application scenario: Network topology and capability of RS*
- *Principle requirements on PHY/MAC protocols in IEEE 802.16 to provide multi-hop connection*
- *Ideas for spectral scenario and security issues*
- *References of the technology such as IEEE 802.1 Bridging.*

Note that the proposed Mobile Multi-hop Relay project is not to create a new standard but to modify the IEEE 802.16 air interface, i.e. IEEE Std 802.16-2004, plus IEEE Std 802.16-2004/Cor1, IEEE P802.16e, etc.

Also note that the Study Group plan is not to initiate discussion of a PAR and Five Criteria during Session #39. However, the longer term goal is to develop these documents. For reference, see <<http://ieee802.org/16/sg/mmr/parform.pdf>> and Clause 17 of the IEEE 802 Policies & Procedures <<http://ieee802.org/policies-and-procedures.pdf>>.

Contributions will be considered non-confidential and will be posted for public access on the IEEE 802.16 Web Site <<http://WirelessMAN.org>>.

Submit your contribution by the **deadline of 9 September 2005** following the instructions at <<http://WirelessMAN.org/submit.html>>.

Make use of the "Relay" upload directory <<http://relay.WirelessMAN.org>>.

For further information, contact one of the following:

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